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GARDEN HALLS, UNIVERSITY OF LONDON

Daylight, Sunlight and Overshadowing Report

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## 1.0 INSTRUCTIONS

This Daylight/Sunlight and Overshadowing report has been commissioned by the applicant's (*University of London*) development manager, University Partnership Programme (UPP), to support the planning area consent application.

The report is based upon the technical analysis undertaken using the proposed TP Bennetts Architects scheme (received 26<sup>th</sup> February 2012) for Garden Halls, Cartwright Gardens. This has enabled an evaluation of the effects that the proposed scheme may have upon existing neighbouring residential properties, and their daylight and sunlight amenity.

You have also instructed an Overshadowing (*Sun Hours on Ground*) assessment to ascertain the impact of the proposals upon existing neighbouring amenity space.

## 2.0 INTRODUCTION

### **DAYLIGHT AND SUNLIGHT**

The basis of the technical analysis that has been undertaken are the methodology set down within the Building Research Establishment Guidelines entitled '**Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice (2011)**' by PJ Littlefair. The guidelines in question are precisely that; guidelines to inform site design which are not mandatory and are designed to be employed flexibly within the context of all the site constraints:

*"The advice given here is not mandatory and this document should not be seen as a instrument of Planning Policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly...."* (Page 1, Paragraph 1.6 – BRE Guidelines).

The Guidelines themselves on Page 1 also indicate that they should be interpreted flexibly in City Centre and Urban Locations such as this and *"if new developments are to match the height and proportions of existing buildings"*. The Guidelines recognise that they should not form a mandatory set of criteria to which a development must adhere as that would be too restrictive for site development purposes; rather they provide guidance as to what would be a noticeable alteration in the neighbours amenity and what would be a satisfactory level of daylight and sunlight.

However, the guidelines themselves are predicated upon a suburban development model and the values that they set out are based upon a suburban situation i.e. two 2 storey dwellings facing one another across a reasonable width road and the level of light that one would expect in that context.

The reason that this is important is that when one seeks to apply the guidelines in a more urban context, where neighbouring buildings are substantially taller or the scale of massing is generally higher, there is a disjunction between crudely adhering to the recommended criteria and the flexibility that the guidelines themselves recommend. In this area, a degree of interpretation is necessary.

The methodology that has been employed is in accordance with the BRE Guidelines set out below.

The BRE guidelines provide two main methods of calculation for daylight. The first is known as the Vertical Sky Component (VSC) method which considers the potential for daylight by calculating the angle of vertical sky at the centre of each of the windows serving the residential buildings which look towards the site. This is a more simplistic approach and it could be considered as a “rule of thumb” to highlight whether there are any potential concerns to the amenity serving a particular property. An alteration in VSC daylight of less than 20% is considered by the BRE to be reasonable and likely to be unnoticeable by the occupant.

The second method is the No Sky Line (NSL) or Daylight Distribution method.

This simply assesses the change in position of the No Sky Line (NSL) between the existing and proposed situations. It does take into account the number and size of windows to a room, but still does not give any qualitative or quantitative assessment of the light in the room, only where sky can or cannot be seen. An alteration in NSL daylight of less than 20% is considered by the BRE to be reasonable and likely to be unnoticeable to the occupant.

In relation to sunlight, the BRE criteria calculates the annual probable sunlight hours (APSH) which evaluates the amount of sun available in both the summer and winter for each given window which faces within 90° of due south. Windows which do not face within 90° of due south are not considered. Summer is considered to be the six months between March 21<sup>st</sup> and September 21<sup>st</sup> and winter the remaining months. The BRE prioritises sunlight to living rooms, but also indicates that kitchens and bedrooms should not be ignored.

The new 2011 Guidance suggests some additional techniques for evaluating currently undeveloped sites and for neighbouring residential properties with architectural features which inhibit site development. Where appropriate these have been commented upon in our report.

### 3.0 SOURCES OF INFORMATION

#### **GIA**

Site Photographs

#### **MSA SURVEYS**

IR12-6173 – Site Survey

#### **VERTEX MODELLING**

IR02-6173 – Photogrammetry  
Model

#### **TP BENNETT**

#### **ARCHITECTS**

IR21-110213

#### **ORDNANCE SURVEY - FIND**

IR03-6173 – Digital OS extract

#### **FLOOR PLANS SOURCED**

1, 2, 3, 5, 7 & 8 Leigh Street

1 Sandwich Street

Church & Hostel, Sandwich Street

### 4.0 ASSUMPTIONS

1. Where we have modelled buildings which are beyond the range of the measured survey information, we have used a base photogrammetric model and will have endeavoured to verify the base level via the use of GPS and altimeter equipment.

Where neighbouring elevations are not visible from a site inspection (but where it is likely that apertures may be present) we have inserted 'test' windows or estimated the position of apertures. The actual position may differ if closer access becomes possible and therefore technical analysis and risk may differ from that confirmed herein.

2. We have not sought or gained access to any of the properties surrounding the site due to project sensitivities. Nor have we been able to obtain room layout plans for all of the adjoining properties, which is not abnormal. Where we have not acquired floor-plans we have made reasonable assumptions as to the internal layouts of the rooms behind the fenestration in accordance with the BRE recommendations. Unless the building form dictates otherwise, we assume a standard 4.2m deep room (14ft) for residential properties and the 6m (20ft) deep from for commercial properties.

Where it has been possible to source accurate floor plans, the 3D context model has been updated accordingly. *(Please see Sources of Information section above).*

3. We have made best estimates as to the uses which are carried out legally within the adjoining properties in terms of commercial and residential units. We have estimated these from external observation and where possible from Local Authority records, and the uses are identified in the report below.
4. Floor levels have been assumed for those adjoining properties where access has not been obtained. This dictates the level of the working plane which is relevant for the No Sky Line assessment.

## 5.0 SIGNIFICANCE CRITERIA

Professional judgement has been used to establish whether a potential impact to each of the rooms/windows assessed would be **beneficial** or of either **minor, moderate or major** significance. In addition significance criteria has been provided for the potential impact to each of the neighbouring buildings assessed, noted as **beneficial** or **adverse**, and of either **minor, moderate or major** significance.

In essence, the BRE Guidance must be interpreted flexibly and should not be used as an instrument of planning policy. The BRE Guidance does not provide mandatory rules but guidelines intended to help the designer and planning authority, and should be viewed in the context of other site constraints.

In view of the above, the interpretation of the daylight and sunlight results should be considered in terms of the quantum of light lost and retained, not purely upon the percentage of change. The percentage value may well be misleading, particularly where the baseline values are small. In these situations, a small change in the quantum of light could represent a high percentage change in the overall figure, implying that there would be a significant change in daylight and sunlight whereas in reality the difference would be negligible. In addition, the BRE criterion does not specifically relate to city centre locations, thus a degree of flexibility needs to be applied when assessing the significance of daylight and sunlight impacts in urban locations.

Throughout this report, it should be noted that all potential impacts and residual impacts are referred to as **minor, moderate or major**, using professional judgement and the BRE guidelines.

Impacts considered **minor** are those which are slight and are localised impacts of no significance.

Where impacts are considered **moderate**, these are limited impacts which may be considered significant.

Impacts considered **major** in significance are those which are considerable and of more than local significance or in breach of recognised acceptability, legislation, policy or standards.

Where the results show compliance with the 2011 BRE Handbook criteria, the impact is considered **negligible** since the BRE Handbook indicates that the occupants are unlikely to experience any noticeable change to their amenity levels.

## 6.0 THE SITE



The proposed development is located on an island site bordered by Cartwright Gardens to the west, Sandwich Street to the east, Hastings Street to the north and Leigh Street to the south, within the London borough of Camden and outlined in red on the plan above.

The majority of properties that overlook the site on Sandwich Street and Leigh Street are residential in nature however there are a number of ground floor commercial units located on Leigh Street. Hamilton House to the north is a commercial building, while properties located along Cartwright Gardens to the west are a mixture of residential, commercial (hotel) and university student halls.

Our understanding of the existing Cartwright Gardens site is depicted in GIA drawings 6173-19, 6173-20 and 6173-21 which accompanies this report. (See Appendix 2)

## 7.0 THE PROPOSAL

Our understanding of the proposed scheme is depicted in GIA drawings 6173-46, 6173-47 and 6173-48, which can be found to the rear of this report (*See Appendix 2*).

Our analysis is based on the proposed scheme massing model produced by TP Bennett Architects received on the 26<sup>th</sup> February 2013.

## 8.0 SURROUNDING PROPERTIES

It has been possible to create a detailed, three dimensional computer model based upon a measured survey, and an extensive photographic site survey. Where it has not been possible to source architectural floor plans, reasonable room assumptions have been used based upon BRE guidance and through a consideration of building design and architecture, and any external features which might provide an indication as to the usage and dimensions of the room behind a window.

Where neighbouring properties have architectural features such as balconies or recessed elevations which inhibit light penetration and distort their reliance upon light across the development site, we have considered their influence in accordance with the 2011 BRE guidance which at paragraph 2.2.11 on page 8, suggests moving the calculation point for the technical analysis parallel to the rest of the elevation to understand whether the light would be compliant in the absence of this feature.

The following commercial property has been discounted due to the fact it is commercial in nature and will have a heavy reliance on artificial light and thus is not relevant for Daylight/ Sunlight assessment in accordance with the BRE guidelines (*BRE – 2.2.2*):

### ➤ HAMILTON HOUSE

# **PROPERTIES EXPERIENCING NO MATERIAL LOSS**

Our technical analysis indicates that there will be no material Daylight (VSC or NSL) or Sunlight (APSH) loss to the following residential properties as a result of the Proposed Development as they will retain sufficient levels of VSC, NSL and APSH in accordance with the 2011 BRE guidance:

- |                     |                          |
|---------------------|--------------------------|
| ➤ 2 SANDWICH STREET | ➤ 58-60 CARTWRIGHT       |
| ➤ 1 SANDWICH STREET | GARDENS                  |
| ➤ 28 LEIGH STREET   | ➤ BENTHAM HALL, 31-43    |
| ➤ 10 LEIGH STREET   | CARTWRIGHT GARDENS       |
| ➤ 9 LEIGH STREET    | ➤ 30 CARTWRIGHT GARDENS  |
| ➤ 8 LEIGH STREET    | ➤ 29 CARTWRIGHT GARDENS  |
| ➤ 7 LEIGH STREET    | ➤ 28 CARTWRIGHT GARDENS  |
| ➤ 6 LEIGH STREET    | ➤ 27 CARTWRIGHT GARDENS  |
| ➤ 5 LEIGH STREET    | ➤ 160-181 THANET STREET  |
| ➤ 4 LEIGH STREET    | ➤ 136-159 THANET STREET  |
| ➤ 3 LEIGH STREET    | ➤ 112-153 THANET STREET  |
| ➤ 2 LEIGH STREET    | ➤ 91-111 THANET STREET   |
| ➤ 1 LEIGH STREET    | ➤ 1-30 RASHLEIGH HOUSE,  |
| ➤ 61-63 CARTWRIGHT  | THANET STREET            |
| GARDENS             | ➤ 31-63 RASHLEIGH HOUSE, |
|                     | THANET STREET            |

## **IMPACTED PROPERTIES**

The properties listed below will experience a technical breach of VSC, NSL and or APSH to at least one room when assessed against the BRE 2011 criteria:

### **1-27 Sinclair House, Sandwich Street**



This six storey property is primarily residential in nature and located on the northern end of Sandwich Street, extending to Hastings Street to the north. It was not possible to locate accurate floor plans for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against 27 rooms, served by 73 windows in both the existing and proposed scenario, which are relevant for assessment.

### ***DAYLIGHT – VSC & NSL***

Following our technical analysis it was found that 71 windows and 24 rooms will fully comply with the BRE VSC and NSL daylight criteria. Two rooms, R5/201 and R2/210 (see *window maps in Appendix 2*) located between the ground and first floor, will fall below the recommend guidance.

R5/201 is served by two windows, one of which is poorly lit in the existing scenario at 11%, reducing to 9% VSC. This equates to a 20.68% alteration and is thus just beyond the BRE recommended 20% change. The NSL to the room will be reduced by 24%, also just above guidance, however over almost 70% of the room area will retain a view of the sky at desk top height. Considering the location and retailed levels of light we would consider these losses as **minor** in nature.



R2/210 will see a slightly more noticeable loss of NSL, but retain a VSC of 16% to one window and 7% to the second with a change of 24%, marginally exceeding guidance. The NSL alteration of 35% would be considered moderate in nature.

It is important to remember that that this building is located in a dense urban location and that the BRE 2011 criteria is based upon the levels of light that should be maintained (where possible) in a sub-urban environment, rather than a dense urban location such as central London. In consideration of this and the fact over 95% of windows and rooms will remain in compliance with the BRE criteria, we would classify the daylight impact to this property as **negligible**.

### ***SUNLIGHT – APSH***

In total, 27 rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all 27 rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight effect to this property beyond BRE guidelines. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

### **28-51 Sandwich Street**



This six storey residential building is located on Sandwich Street and faces the Proposed Development to the west. It was not possible to locate accurate floor plans for this property. As a result, analysis is based upon assumed room layouts and external measured survey information.

This property currently overlooks a car park in this dense urban site. The separation distance between 28-51 Sandwich Street and the relevant existing university building opposite (from a VSC/NSL perspective) is 38m, with the current university building rising to a height of 15m. This ensures the rooms within 28-51 Sandwich Street enjoy good levels of sky visibility for their location, particularly in comparison to the rest of Sandwich Street.

The proposal is to extend the streetscape of the existing student halls northwards to occupy this gap site currently used as a car park. This will reduce the separation distance to just under 15m, which is consistent with the remainder of the existing and proposed street to the south; with the proposed massing for the car park rising to 15m in height, 4m below the adjoining buildings. This will create a consistent architectural streetscape along Sandwich Street, and alter the levels of VSC and NSL within 28-51 to a similar quantum as existing properties between 76-93 Sandwich Street and 1 Sandwich Street.

However due to the reduction in sky visibility between the existing car park site and proposed scenario, the losses will be more pronounced, but not necessarily worse than existing levels in neighbouring buildings. Due to these larger percentage reductions the losses will be in excess of the BRE daylight guidance on the lower floors, and are explored in more detail below.

#### **DAYLIGHT – VSC & NSL**

We have undertaken VSC and NSL analysis against 40 rooms, served by 63 windows that are relevant for assessment. Following our technical assessment it was found that 19 rooms and 49 windows will fully comply with the BRE criteria by meeting both the VSC and NSL daylight criteria.

Of the 21 rooms that are below NSL guidance, 13 will be served by one or more windows that meet the BRE VSC criteria, and retain levels between 17% and 22% post development. Such levels are considered good for a dense city centre location such as this.

The remaining eight rooms (R3/300, R4/300, R5/300, R6/300, R3/301, R4/301, R5/301 and R6/301) are below both the VSC and NSL daylight criteria and are located between the ground and first floor. These rooms are most sensitive to the alteration in new massing being sited opposite the car park and will thus see more noticeable percentage reductions in NSL of between 40%-58%. These could ordinarily be considered *serious* reductions in NSL in a sub-urban context.

However the retained quantum of VSC is between 14% and 16% which is considered about adequate for a dense urban location such as this, and will provide the rooms behind the fenestration with a fairly good view of the sky dome. In assessing these losses, there are number of additional factors that should also be taken into consideration.

Firstly, the BRE criteria is based upon the light that should be maintained within neighbouring properties in a sub-urban environment, rather than a central London location such as this, where such values are rarely possible. This is acknowledged by the guidelines in its introduction where it states that alternative target values may need to be considered. Secondly, this property currently overlooks an undeveloped car park, thus meaning the rooms within 28-51 enjoy above average sky visibility, particularly in comparison to similar properties further down Sandwich St. For example, the ground floor windows within 28-51 Sandwich Street enjoy VSC levels of between 18%-21% in the existing scenario, in contrast to 76-93 Sandwich Street or 9 Sandwich Street, which enjoy existing levels of VSC between 12% and 15%.

As a consequence, it could be argued that such levels are more common of this street. The BRE guidelines state in *Appendix F* that an appropriate method of determining the numerical target values to neighbouring properties in locations where there are existing windows in close proximity to the proposed, is to construct a 'mirror image' building. The existing and retained levels of VSC within properties located between 76-93 Sandwich Street and 1 Sandwich Street give us a very good indication of what these results would be in such a scenario.

As such, if the car park had been constructed in line with the remainder of the street the losses would in all likelihood be within the recommended BRE guidelines, or where they exceeded it, be minor in nature.

The retained levels of VSC to the windows that fall below guidance (by virtue of their 20%+ alteration) will range between 13% and 18% VSC equating to reductions of between 21% and 29% of their former value. These retained levels are not unusual for the lower levels of other Sandwich Street properties and are considered to be minor adverse in nature. There will be more noticeable alterations in NSL, however in consideration of the inherent flexibility of the BRE criteria, the location of this development and the alteration between the existing and proposed car park opposite, the changes in NSL to the sensitive 8 rooms highlighted above, could be described as **moderate** in nature.

***SUNLIGHT – APSH***

In total, 40 rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment 36 rooms were found to clearly meet the criteria and thus will have a negligible impact, while four rooms (R3/300, R3/301, R6/301, and R3/302) were found to be below guidance. In consideration of the above, we would classify the sunlight impact to this property as **minor** in nature.

**52-75 Sandwich Street**

This six storey residential property is located on Sandwich Street and faces the proposed development. It was not possible to locate accurate floor plans for this property. As a result analysis is based upon assumed room layouts and external measured survey information. We have undertaken VSC and NSL analysis against 37 rooms, served by 59 windows that are relevant for assessment.

***DAYLIGHT – VSC & NSL***

Following our technical assessment it was found that 54 windows will meet the BRE criteria for VSC or NSL, while three rooms will fall below the VSC and NSL criteria. All three rooms (R1/400, R2/400 and R3/400) are located at ground floor level, and are thus more susceptible alterations in new massing.

The losses of NSL appear to be a consequence of the contrast between the existing car park site and the proposed scenario, similar to that of 28-51 Sandwich Street which is described in more detail above. The level of retained VSC is between 12.7% and 14%, which constitute alterations of between 22% and 25%, (just exceeding the maximum 20% recommend by the BRE, albeit in a sub-urban environment).

These retained levels of VSC are similar to the existing levels of VSC within other ground floor windows further down Sandwich Street, which indicate the levels of VSC that could be interpreted as more common for this location. 17 additional rooms will experience losses of NSL above guidance, however meet the VSC criteria with levels generally exceeding 19%-20% VSC.

It is worth noting that seven windows will see slight beneficial improvements in VSC, while five rooms will also experience similar improvements in NSL. In consideration of the above, the location of this property in a central London location and the inherent flexibility of the BRE, we would classify the daylight impact to this property as **minor** in nature with moderate losses at ground and first floor level.

### ***SUNLIGHT – APSH***

In total, 37 rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment 36 rooms were found to clearly meet the criteria. One room (R2/400) located at ground floor level will marginally fall below guidance while five rooms will see minor improvements in annual APSH. In consideration of the above, we would classify the sunlight impact to this property as **negligible** in nature.

### **76-93 Sinclair House, Sandwich Street**



This six storey residential property is located on Sandwich Street and faces the proposed development. It was not possible to locate accurate floor plans for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against 29 rooms, served by 55 windows that are relevant for assessment.

**DAYLIGHT – VSC & NSL**

Following our technical assessment it was found that all 55 windows will meet the BRE criteria, while 28 out of 29 rooms will meet the NSL criteria. One room (R1/500) will marginally breach the NSL guidelines with an alteration in light to 20.3% of the room, marginally over the 20% alteration recommended by the guidelines. In consideration of this we would classify the daylight impact to this property as **negligible**.

It is also worth mentioning that 22 rooms will experience small beneficial impacts in NSL, while 48 windows will also see small improvements in VSC in comparison to the existing scenario.

**SUNLIGHT – APSH**

In total, 29 rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all 30 rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight effect to this property beyond BRE guidelines. 19 rooms will see beneficial improvement in their annual APSH. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

**Church and Hostel, Sandwich Street / 30 Thanet Street**

This 6 storey and basement property is used as a church and hostel and is located on the eastern side of Sandwich Street facing Proposed Development. We were successful in obtaining floor plans for this building and the model has been updated accordingly.

We have undertaken VSC and NSL analysis against 32 rooms, served by 92 windows that are relevant for assessment.

#### ***DAYLIGHT – VSC & NSL***

Following analysis it was found that all 92 windows will meet the BRE criteria in terms of their levels of VSC meaning there will be a **negligible** impact in this regard. 24 of the 32 rooms will also meet the NSL criteria, while eight rooms will be below the recommended guidelines.

Of the six rooms that are below criteria, six of them (R4/603, R3/605, R4/605, R5/605, R6/605, and R7/605), are hostel bedrooms which have a much lower expectation of light (*BRE* – 2.2.8). All of these rooms have very good levels of VSC with retained levels of between 26% and 30%. This is considered very good for an urban London location.

The remaining two rooms (R4/604 and R5/604) consist of a dining room and living room, and experience alterations in NSL of 23% - 33%, but both meeting the VSC criteria. It is worth noting that both of these rooms will see beneficial impacts in VSC following construction of the proposed development. In consideration of the above, we would consider the impact to this building as **minor**, with small beneficial impacts to some 54 windows.

#### ***SUNLIGHT – APSH***

In total, 32 rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all 32 rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight effect to this property beyond BRE guidelines. 14 rooms will see a beneficial impact to their Annual APSH. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

### 9 Sandwich Street



This property is located on Sandwich Street, east of the Proposed Development. It was not possible to locate accurate room layouts for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against five rooms served by nine windows that are relevant for assessment.

#### ***DAYLIGHT – VSC & NSL***

Following analysis it was found that all nine windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a negligible impact in this regard, while all five rooms will see minor transgressions in NSL of between 21% and 27%.

In consideration of the above, we would consider the impact to this building as **minor** in nature.

#### ***SUNLIGHT – APSH***

In total, five rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all five rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight impact to this property beyond BRE guidelines. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.



**7-8 Sandwich Street**

This residential property is located on Sandwich Street, east of the Proposed Development. It was not possible to locate accurate room layouts for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against ten rooms, served by 18 windows that are relevant for assessment.

***DAYLIGHT – VSC & NSL***

Following analysis it was found that all 18 windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a negligible impact in this regard. Seven windows will actually see some minor beneficial impacts.

Three of the ten rooms will see minor transgressions in NSL of between 21% and 27%, just exceeding guidance. Each of these rooms will however be served by windows that meet the VSC criteria. In consideration of the above, we would consider the impact to this building as **minor** in nature.

***SUNLIGHT – APSH***

In total, ten rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all ten rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH impact to this property beyond BRE guidelines, while four rooms will see a beneficial impact to their Annual APSH.

In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

#### **6 Sandwich Street**



This property is located on Sandwich Street, east of the Proposed Development. It was not possible to locate accurate room layouts for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against six rooms, served by ten windows which are relevant for assessment.

#### ***DAYLIGHT – VSC & NSL***

Analysis found that all ten windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a negligible impact in this regard. Seven windows will experience minor beneficial impacts.

Five of the six rooms will also meet the NSL daylight criteria, with one room (R1/999) located at lower ground floor level and thus limited to the daylight potential available, experiencing a slight NSL transgression of 26% (*above the 20% recommended for a sub-urban environment*). This room is limited to the quantum of light available on the basis it is located at lower ground floor level, and is thus sensitive to any even small increases in new massing.

In consideration of the above, we would consider the impact to this building as **negligible** in nature.

**SUNLIGHT – APSH**

In total, six rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all six rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight impact to this property beyond BRE guidelines. In consideration of this, we would classify the sunlight impact to this property as **negligible**.

**5 Sandwich Street**

This property is located on Sandwich Street, east of the Proposed Development. It was not possible to locate accurate room layouts for this property. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against six rooms, served by 10 windows that are relevant for assessment.

**DAYLIGHT – VSC & NSL**

Analysis found that all ten windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a **negligible** impact in this regard. Five windows will experience minor **beneficial** improvements.

Five of the six rooms will also meet the NSL daylight criteria, with one room (R1/1099) located at lower ground floor level and thus limited to the daylight potential available, experiencing a small NSL transgression of 27%.

This room is limited to the quantum of light available on the basis it is located at lower ground floor level, and is thus sensitive to any even small increases in new massing.

In consideration of the above, we would consider the impact to this building as **negligible** in nature.

#### ***SUNLIGHT – APSH***

In total, six rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all six rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight impact to this property beyond BRE guidelines. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

#### **4 Sandwich Street**



This property is located on Sandwich Street, east of the Proposed Development.

It was not possible to locate accurate room layouts for this building. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against five rooms, served by nine windows that are relevant for assessment.

***DAYLIGHT – VSC & NSL***

Analysis found that all nine windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a **negligible** impact in this regard. Four windows will experience minor **beneficial** improvements.

Four of the five rooms will also meet the NSL daylight criteria, with one room (R1/1199) located at lower ground floor level and thus limited to the daylight potential available, experiencing a minor NSL transgression of 27%.

This room is limited to the quantum of light available on the basis it is located at lower ground floor level, and is thus sensitive to any even small increases in new massing.

In consideration of the above, we would consider the impact to this building as **negligible** in nature.

***SUNLIGHT – APSH***

In total, five rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all five rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight impact to this property beyond BRE guidelines. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

**3 Sandwich Street**

This property is located on Sandwich Street, east of the Proposed Development.

It was not possible to locate accurate room layouts for this building. As a result analysis is based upon assumed room layouts and external measured survey information.

We have undertaken VSC and NSL analysis against six rooms, served by 11 windows that are relevant for assessment.

#### **DAYLIGHT – VSC & NSL**

Analysis found that all 11 windows will meet the BRE criteria in terms of their retained levels of VSC meaning there will be a **negligible** impact in this regard.

Five of the six rooms will also meet the NSL daylight criteria, with one room (R1/1299) located at lower ground floor level experiencing a very minor NSL transgression of 21%. This room is limited to the quantum of light available on the basis it is located at lower ground floor level, and is thus sensitive to any even small increases in new massing.

In consideration of the above, we would consider the impact to this building as **negligible** in nature.

#### **SUNLIGHT – APSH**

In total, six rooms are relevant for APSH analysis and have been assessed against BRE criteria.

Following our technical assessment all six rooms were found to clearly meet the criteria. As a result the proposed development will not cause an APSH Sunlight impact to this property beyond BRE guidelines. In consideration of the above, we would classify the sunlight impact to this property as **negligible**.

## **9.0 OVERSHADOWING (HOURS IN SUN)**

The hours in sun overshadowing assessment has been undertaken against Cartwright Gardens to the west of the proposed development site (*see Appendix 4*). The methodology for permanent overshadowing analysis, or ‘hours in sun’, is set out in the 2011 BRE Guidelines. The guidelines acknowledge that sunlight in the space between buildings can have an important effect on the overall appearance and ambience of a development, and thus neighbouring private or public amenity space should be assessed. The worst scenario is to have significant areas on which the sun only shines for a limited part of the year.

The hours in sun assessment is based on 21<sup>st</sup> March (Spring Equinox). Using specialist software, the path of the sun is tracked, at one-minute intervals, around the 3D computer model of the site and its surrounding buildings in order to establish where sunlight would fall on the ground and where it is prevented from doing so as a result of surrounding obstructions. The assessment then establishes the area of a private garden or a public open space which receives at least two hours of sunlight on the ground on 21<sup>st</sup> March.

For this assessment the sensitive space identified was Cartwright Gardens to the west of the Proposed Development.

Our analysis found that there will be **absolutely no additional overshadowing** caused to Cartwright Gardens if the Proposed Development is constructed as envisaged in GIA drawings 6173-46, 6173-47 and 6173-48. Over 97.79% of the park will achieve over 2 hours of direct sunlight on the 21<sup>st</sup> March, thus comfortably meeting the BRE criteria for overshadowing.

In summary our analysis found that the surrounding amenity spaces will experience no material or perceptible increase in overshadowing as a consequence of the proposed development and that over 97% of the gardens will enjoy direct sunlight for 2 hours or more on the 21<sup>st</sup> of March. As a result there will be a **negligible** impact to this space as a result of the proposed development.

## 10.0 CONCLUSION

In total 26 properties neighbouring the Proposed Development will retain sufficient levels of VSC, NSL and APSH, and thus remain fully in compliance with the BRE 2011 Daylight and Sunlight criteria.

The remaining 11 properties will contain at least one or more rooms that will experience a technical daylight or sunlight breach in accordance with the BRE guidelines. These impacts are almost exclusively minor in nature, with just one property (28-51 *Sandwich Street*) experiencing losses of light that could be described a *moderate* or *major*. Where there are breaches, they are for the most part isolated to sensitive windows at lower ground or first floor level and considered minor in nature.

One commercial building (Hamilton House on Hastings Street) was discounted from our analysis, due to the fact it is commercial in usage, in accordance with BRE guidance (*BRE* – 2.2.2 & 3.2.3). Where buildings were found to be mixed use, the commercial or non-habitable spaces have also been removed from this assessment, in accordance with the BRE 2011 recommendations.

The BRE guidelines are intended to be applied where neighbouring residential buildings are likely to be impacted by a proposed development. Living rooms and kitchens are specifically mentioned as being material for consideration for daylight analysis, as are bedrooms to a lesser extent, while living rooms are important for sunlight. Non-habitable spaces such as bathrooms or circulation spaces need not be included.

Professional judgement has been used to establish whether a potential impact to each building as a whole assessed would be considered beneficial or adverse, and of minor, moderate or major significance. In essence, the BRE Guidance must be interpreted flexibly and should not be used as an instrument of planning policy. The BRE Guidance does not provide mandatory rules but guidelines intended to help the designer and planning authority, and should be viewed in the context of other site constraints.

In view of the above, the interpretation of the daylight and sunlight results should be considered in terms of the quantum of light lost and retained, not purely upon the percentage of change. The percentage value may well be misleading, particularly where the baseline values are small. In these situations, a small change in the quantum of light could represent a high percentage change in the overall figure, implying that there would be a significant change in daylight and sunlight whereas in reality the difference would be negligible.

The Proposed Development is located in a dense, central London location. The BRE guide suggests in the introduction that in more built up locations such as this, a higher degree of obstruction will exist due to the increased height and scale of surrounding buildings. In this case lower target values may be appropriate. A degree of flexibility should be maintained when assessing the results on dense urban sites against guidance, as it is based upon a sub-urban environment.

Our analysis has found that the vast majority of neighbouring properties will meet the BRE daylight (VSC and NSL) and sunlight (APSH) criteria following construction of the Proposed Development.



Just two properties (28-51 Sandwich Street and the Church and Hostel building on Sandwich Street) will see material loss to 5 rooms or more. In the case of 28-51 Sandwich Street the losses are driven by percentage losses which are derived by the unusually good levels of sky visibility in the existing scenario (*please see section on 28-51 above for further details*), and the change in massing. The retained levels of light in the proposed scenario are consistent with the existing levels on the remainder of Sandwich Street. The remaining losses are generally isolated and in rooms that are sensitive to small changes in massing in most cases and then generally only minor in nature.

The Overshadowing assessment found that there will be no alteration in the quantum of hours in sun that will be available to the public amenity space in Cartwright Gardens. As a result there will be a negligible impact in this regard.

The design team appear to have been sensitive in their design approach to the impact the proposals may have upon existing neighbouring properties. The proposed massing seems consistent with the surrounding buildings and they have incorporated such design features as mansard roofs which will minimise the daylight/sunlight losses within existing properties. Furthermore the proposed massing on the existing car park site will be up to 4m lower than its adjoining Canterbury Hall massing, a conscious decision that was made to limit the impact to 28-51 and 52-75 Sandwich Street. Moreover, many of the existing surrounding windows will actually see improvements in VSC and NSL, all be they generally minor in nature.

In the final analysis, this scheme will cause isolated breeches to a minority of neighbouring properties. This is not unusual, particularly in a dense urban environment such as this and where they occur they are generally minor in nature.

# APPENDIX 1

PRINCIPLES OF DAYLIGHT & SUNLIGHT

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## PRINCIPLES OF DAYLIGHT AND SUNLIGHT

---

### BACKGROUND

The quality of amenity for buildings and open spaces is increasingly becoming the subject of concern and attention for many interested parties.

Historically the Department of Environment provided guidance of these issues and, in this country, this role has now been taken on by the Building Research Establishment (BRE), the British Standards Institution (BSI) and the Chartered Institute of Building Services Engineers (CIBSE). Fortunately they have collaborated in many areas to provide as much unified advice as possible in these areas.

Further emphasis has been placed on these issues through the European Directive that require Environmental Impact Assessments (EIA's) for large projects. Parts of these assessments include the consideration of the micro-climate around and within a proposal. The EIA requires a developer to advise upon, amongst other matters, the quality of and impact to daylight, sunlight, overshadowing, solar glare and light pollution.

It is also clear, particularly through either adopted or emerging Unitary Development Plans (UDP's), that local Authorities take this matter far more seriously than they previously did. There are many instances of planning applications being refused due to impact on daylight and sunlight to neighbouring properties and proportionately more of these refusals are appealed by applicants.

Where developers are seeking to maximise their development value, it is often in the area of daylight and sunlight issues that they may seek to 'push the boundaries'. Local Authorities vary in their attitude of how flexible they can be with worsening the impact on the amenity enjoyed by neighbouring owners. In city centres, where there is high density, it can be the subject of hot debate as to whether further loss of amenity is material or not. There are many factors that need to be taken into account and therefore each case has to be considered on its own merits. Clearly, though, there are governing principles which direct and inform on the approach that is taken.

These principles are effectively embodied within the UDP's and the guidance they expressly rely upon. For example, in central London, practically all of the Local Authorities expressly state they will not permit or encourage developments which create a material impact to neighbouring buildings or amenity areas. Often the basis on what is constituted as 'material' will be derived specifically from the BRE Guidelines. The guidelines were produced in 1991, as a direct commission from the Department of the Environment, and entitled 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice'. In October 2011, the BRE Guidelines were updated and the revised edition states the 2011 BRE "... supersedes the 1991 edition which is now withdrawn".

These guidelines are normally recognised as being the main source for which amenity issues can be considered. The document is used by the majority of local Authorities (adopted within the policy) and consequently they are referred to extensively by designers, consultants and planners. Whilst they are expressly not mandatory and state that they should not be used as an instrument of planning policy, they are heavily relied upon as they advise on the approach, methodology evaluation of impact in daylight and sunlight matters – a key consideration through the planning policy.

## **THE BRE GUIDELINES**

The BRE give criteria and methods for calculating daylight, and sunlight as well as overshadowing and through each approach define what they consider as a material impact. As these different methods of calculation vary in their depth of analysis, it is often arguable as to whether the BRE definition of ‘material’ is applicable in all locations and furthermore if it holds under the different methods of calculation.

As the majority of the controversial daylight and sunlight issues occur within city centres these explanatory notes focus on the relevant criteria and parts of the Handbook which are applicable in such locations.

In the Introduction of ‘Site Layout Planning for Daylight and Sunlight (2011)’, Section 1.6 (page 1), states that:-

*"The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and this document 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 because natural lighting is only one of many factors in site layout design (see Section 5). In special circumstances the developer or Planning Authority may wish to use different target values. For example, in an historic city centre a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings".*

Again, the third paragraph of Chapter 2.2 (page 7) of the document states:-

*'Note that numerical values given here are purely advisory. Different criteria may be used, based on the requirements for daylighting in an area viewed against other site layout constraints'.*

The reason for including these statements in the Report is to appreciate that when quoting the criteria suggested by the BRE, they should not necessarily be considered as appropriate. However, rather than suggest alternative values, consultants in this field often remind local Authorities that this approach is supportable and thus flexibility applied.

## **MEASUREMENT AND CRITERIA FOR DAYLIGHT & SUNLIGHT**

The BRE handbook provides two main methods of measurement for calculating daylight which we use for the assessment in our Reports. In addition, in conjunction with the BSI and CIBSE it provides a further method in Appendix C of the Handbook. In relation to sunlight only one method is offered for calculating sunlight availability for buildings. There is an overshadowing test offered in connection with open spaces.

### **DAYLIGHT**

In the first instance, if a proposed development falls beneath a 25° angle taken from a point two metres above ground level, then the BRE say that no further analysis is required as there will be adequate skylight (i.e. sky visibility) availability.

The two methods for calculating daylight to existing surrounding residential properties are as follows:

- Vertical Sky Component (VSC) and
- No Sky Contours (NSC)

The main method for calculating daylight to proposed residential properties is:

- Average Daylight Factor (ADF)

Each is briefly described below.

#### **(a) Vertical Sky Component**

##### **Methodology**

This is defined in the Handbook as:-

*"Ratio of that part of illuminance, at a point on a given vertical plane that is received directly from a CIE standard overcast sky, to illuminate on a horizontal plane due to an unobstructed hemisphere of this sky."*

*"Note that numerical values given here are purely advisory. Different criteria may be used, based on the requirements for daylighting in an area viewed against other site layout constraints".*

The ratio referred to in the above definition is the percentage of the total unobstructed view that is available, once obstructions, in the form of buildings (trees are excluded) are placed in front of the point of view. The view is always taken from the centre of the outward face of a window.

This statement means, in practice that if one had a totally unobstructed view of the sky, looking in a single direction, then just under 40% of the complete hemisphere would be visible.

The measurement of this vertical sky component is undertaken using two indicators, namely a skylight indicator and a transparent direction finder. Alternatively a further method of measuring the vertical sky component, which is easier to understand both in concept and analysis, is often more precise and can deal with more complex instructions, is that of the Waldram diagram.

The point of reference is the same as for the skylight indicator. Effectively a snap shot is taken from that point of the sky in front of the window, together with all the relevant obstructions to it, i.e. the buildings.

An unobstructed sky from that point of reference would give a vertical sky component of 39.6%, corresponding to 50% of the hemisphere, and therefore the purpose of the diagram is to discover how much sky remains once obstructions exist in front of that point.

The diagram comes on an A4 sheet (landscape) and this sheet represents the unobstructed sky, which in one direction equates to a vertical sky component of 39.6%. The obstructions in front of a point of reference are then plotted onto the diagram and the resultant area remaining is proportional to the vertical sky component from that point.

### Criteria

The BRE Handbook provides criteria for:

- (a) New Development
- (b) Existing Buildings

A summary of the criteria for each of these elements is given and these are repeated below:-

New Development*Summary*

*In general, a building will retain the potential for good interior diffuse daylighting provided that on all its main faces:-*

- (a) no obstruction, measured in a vertical section perpendicular to the main face, from a point 2m above ground level, subtends an angle of more than 25 degrees to the horizontal;*
- (b) If (a) is not satisfied, then all points on the main face on a line 2m above ground level are within 4m (measured sideways) of a point which has a vertical sky component of 27% or more.*

Existing Buildings*Summary*

*If any part of a new building or extension measured in a vertical section perpendicular to a main window wall of an existing building, from the centre of the lowest window, subtends an angle of more than 25 degree to the horizontal, then the diffuse daylighting of the existing building may be adversely affected. This will be the case if either:*

- (a) the vertical sky component measured at the centre of an existing main window is less than 27%, and less than 0.8 times its former value;*
- or*
- (b) 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.*

The VSC calculation has, like the other two methods, both advantages and disadvantages. In fact they are tied together. It is a quick simple test which looks to give an early indication of the potential for light. However, it does not, in any fashion, indicate the quality of actual light within a space. It does not take into account the window size, the room size or room use. It helps by indicating that if there is an appreciable amount of sky visible from a given point there will be a reasonable potential for daylighting.

**(b) No Sky Contours**

This is the part (b) of the alternative method of analysis which is given under the Vertical Sky Component heading in this Appendix. It is similar to the VSC approach in that a reduction of 0.8 times in the area of sky visibility at the working plane may be deemed to adversely affect daylight. It is however, very dependent upon knowing the actual room layouts or having a reasonable understanding of the likely layouts. The contours are also known as daylight distribution contours. They assist in helping to understand the way the daylight is distributed within a room and the comparisons of existing and limitations of proposed circumstances within neighbouring properties. Like the VSC method, it relates to the amount of visible sky but does not consider the room use in its criteria, it is simply a test to assess the change in position of the No Sky Line, between the existing and proposed situation. It does take into account the number and size of windows to a room, but does not give any quantitative or qualitative assessment of the light in the rooms, only where sky can or cannot be seen.

**(c) Average Daylight Factor**

This is defined in Appendix H of the BRE Document as:

*"Ratio of total daylight flux incident on the working plane, expressed as a percentage of the outdoor illuminance on a horizontal plane due to an unobstructed CIE Standard Overcast Sky."*

This factor considers interior daylighting to a room and therefore is a more accurate indication of available light in a given room, if details of the room size and use are available.

Criteria

The British Standard, BS8206 Part II gives the following recommendations for the average daylight factor (ADF) in dwellings.

The BRE Handbook provides the formula for calculating the average daylight factor. If the necessary information can be obtained to use the formula then this criteria would be more useful.

| Room         | Percentage |
|--------------|------------|
| Kitchen      | 2%         |
| Living Rooms | 1.5%       |
| Bedrooms     | 1%         |



It is sometimes questioned whether the use of the ADF is valid when assessing the impact on neighbouring buildings. Firstly, it is often the case that room layouts and uses may not have been established with certainty. Additionally this method is not cited in the main body of text in the BRE Guidelines but only in Appendix C of that document. It is however, the principal method used by both the British Standard and CIBSE in their detailed daylight publications with which the BRE guide recommends that it should be read.

The counter-argument to this view is that whilst room uses and layouts may be not definitely established, reasonable assumptions can easily be made to give sufficient understanding of the likely quality of light. Building types and layouts for certain buildings, particularly residential, are often similar. In these circumstances reasonable conclusions can be drawn as to whether a particular room will have sufficient light against the British Standards. In addition, the final result is less sensitive to changes in the room layout than the No Sky Contour method as it is an average and this element represents only one of the input factors. It is in cases where rooms sizes have been assumed a more reliable indicator than the No Sky Line method.

Clearly if a room which is being designed for a new development is deemed to have sufficient light against the British Standards, then it should equally follow for a room assessed in a neighbouring existing building.

The average daylight factor considers the light within the room behind the fenestration which serves it. The latter is therefore likely to be more accurate because it takes into account the following:-

- a) All the windows serving the room in question.
- b) The room use.
- c) The size and layout of the room.
- d) The finishes of the room surfaces.

## **SUMMARY**

The VSC (which forms part of the ADF formula) is helpful as an initial first guide, especially where access to the rooms in question is not available. Where the room layouts and uses are established or can be reasonably estimated we consider it appropriate to analyse the average daylight factor as well as the vertical sky component.

**SUNLIGHT****(a) Annual Probable Sunlight Hours (APSH) method**

Sunlight is measured in the Handbook in a similar manner to the first method given for measuring the VSC. A separate indicator is used which contains 100 spots, each representing 1% of annual probable sunlight hours.

The BRE calculated that where no obstructions exist, the total annual probable sunlight hours would amount to 1486. Therefore, each dot on the indicator equates to 14.86 hours of the total annual probable sunlight. Again, to use this indicator the obstructions need to be scaled down and overlaid onto the sunlight indicator.

Those spots which remain uncovered by the scaled obstructions are counted and this gives the percentage of total annual probable sunlight hours for that particular reference point. Again, like the VSC, the reference point is taken to be the centre of the window.

Criteria

Again, the BRE Handbook gives criteria for:

- (a) New Development
- (b) Existing Buildings

A summary is given in the Handbook on page 16 and this is as follows:-

New Development*Summary*

*'In general, a dwelling or non-domestic building which has a particular requirement for sunlight, will appear reasonably sunlit provided';-*

- (a) at least one main window wall faces within 90 degrees of due south;  
and
- (b) the centre of at least one window to a main living room can receive 25% of annual probable sunlight hours, including at least 5% of annual probable sunlight hours in the winter months between 21 September and 21 March.

Existing Buildings

## Summary (page 17)

*'If a living room of an existing dwelling has a main window facing within 90° of due south, and any part of a new development subtends an angle of more than 25° to the horizontal measured from the centre of the window in a vertical section perpendicular to the window, then the sunlighting of the existing dwelling may be adversely affected. This will be the case if a point at 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;*
- *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% annual probable sunlight hours.*

It will be noted that the BRE clearly separates summer from winter and indicates that a 20% reduction for either may be material. The Handbook also states that- *"To assess loss of sunlight to an existing building, it is suggested that all main living rooms of dwellings and conservatories, should be checked if they have a window facing within 90° of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun... A point at the centre of each window on the outside face of the window wall may be taken".*

**(b) Area of Permanent Shadow- Sun Hours on Ground**

The 2011 BRE Handbook, 'Site Layout Planning for Daylight and Sunlight' (Second edition) also provides criteria for open spaces where sunlight will be required, including; gardens, parks, children's playgrounds, public squares etc.

The BRE Guidance acknowledges that sunlight in the space between buildings has an important effect on the overall appearance and ambience of a development. The worst situation is to have significant areas on which the sun only shines for a limited part of the year.

In summary the BRE document states the following:-

*"It is suggested that, for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area 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 some two hours of sun on 21 March is less than 0.8 times its former value, then the loss of sunlight is likely to be noticeable".*

In relation to general overshadowing we often provide, where appropriate, an hourly record for existing and proposed situations, the effect of overshadowing on December 21<sup>st</sup>, March 21<sup>st</sup> and June 21<sup>st</sup>.

For open spaces the sun hours on ground criteria is naturally adopted but this offers limited understanding of how a space will feel or appear generally.

### **CITY CENTRES**

The introduction of the BRE document gives the example of 'historic city centres' being a case where there is the need for flexibility and altering the target values for criteria when appropriate, to reflect other site and layout constraints.

To explain why it is appropriate to alter these values, one needs to go further into the BRE Handbook to examine how the criteria for the vertical sky component criteria was determined and the reason therefore for varying the criteria in City Centres.

Appendix F of the document is dedicated to the use of alternative values and, it also demonstrates the manner in which the criteria for skylight was determined for the Summary given above, i.e. the need for 27% vertical sky component for adequate daylighting.

This figure of 27% was achieved in the following manner:

A theoretical road was created with two storey terraced houses upon either side, approximately twelve metres apart. The houses have windows at ground and first floor level, and a pitched roof with a central ridge.

Thereafter, a reference point was taken at the centre of a ground floor window of one of the properties and a line was drawn from this point to the central ridge of the property on the other side of the road. The angle of this line equated to 25 degrees (the 25 degrees referred to in the summaries given with reference to the criteria for skylight).

This 25 degrees line obstructs 13% of the totally unobstructed sky available, leaving a resultant figure of 27% which is deemed to give adequate daylighting. This figure of 27% is the recommended criteria referred to earlier in this report. It will be readily appreciated that in a City Centre, this kind of urban form is unlikely and is impractical. It would therefore be inappropriate to consider values for two storey terraced housing in a City Centre.

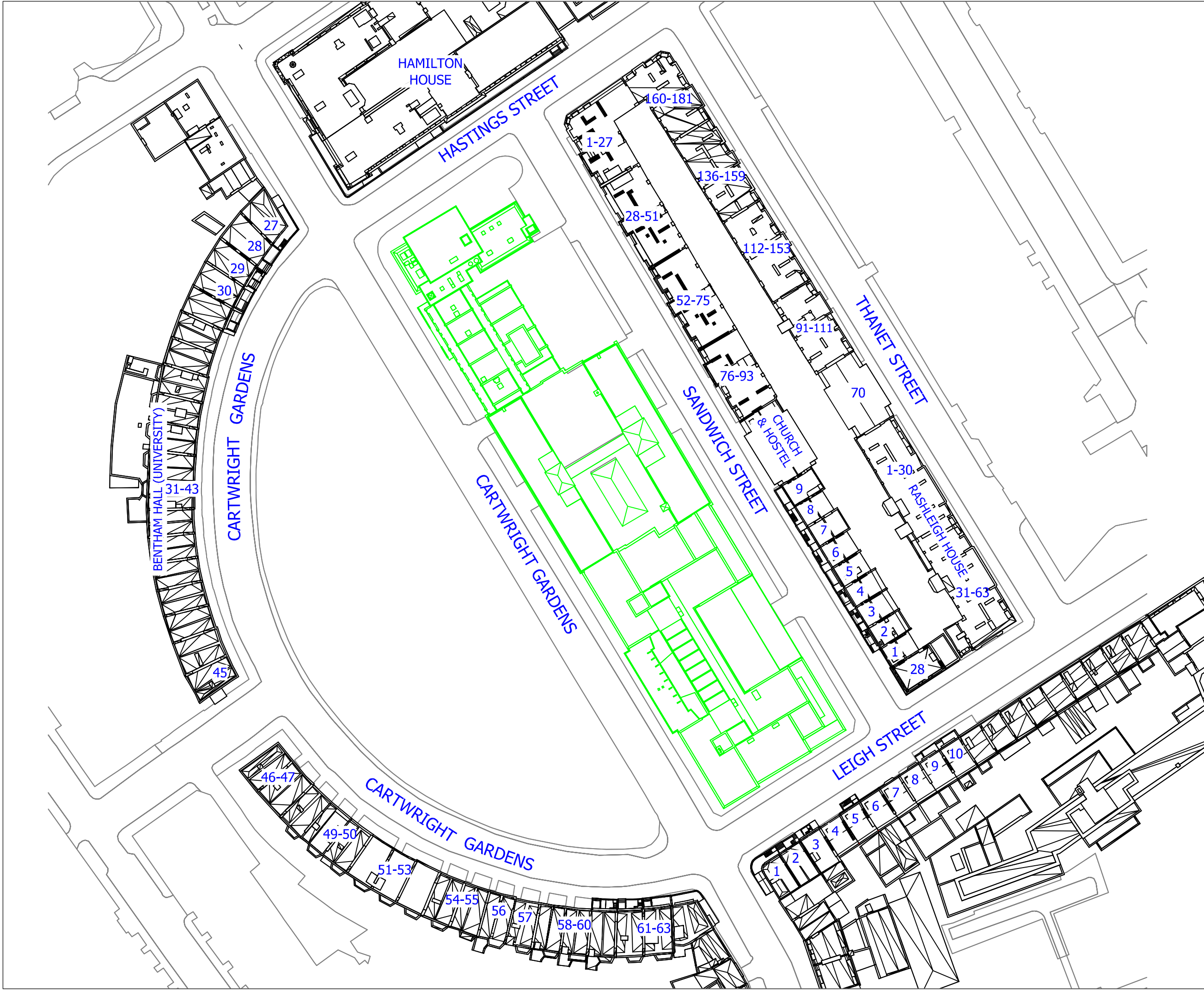
It is therefore sometimes necessary to apply different target criteria or at least acknowledge that the recommendations in the BRE cannot be achieved.

In addition, it is often the case that residential buildings within city centres are served by balconies. Balconies restrict lighting levels even more and thus if they were to be rigidly taken into account, a neighbouring proposal would be artificially and inappropriately constrained. This view is supported by the BRE and is equally another reason for flexible and sensible interpretation of the guidelines.

# APPENDIX 2

EXISTING & PROPOSED DRAWINGS  
WINDOW MAPS





Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
10417\_A04\_GIA-Massing\_24-09-12.skp  
RECEIVED 24/09/12

FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

Notes

N.B. DO NOT SCALE OFF THIS DRAWING



ALL HEIGHTS GIVEN IN mm AOD  
EXISTING BUILDINGS SHOWN IN GREEN

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

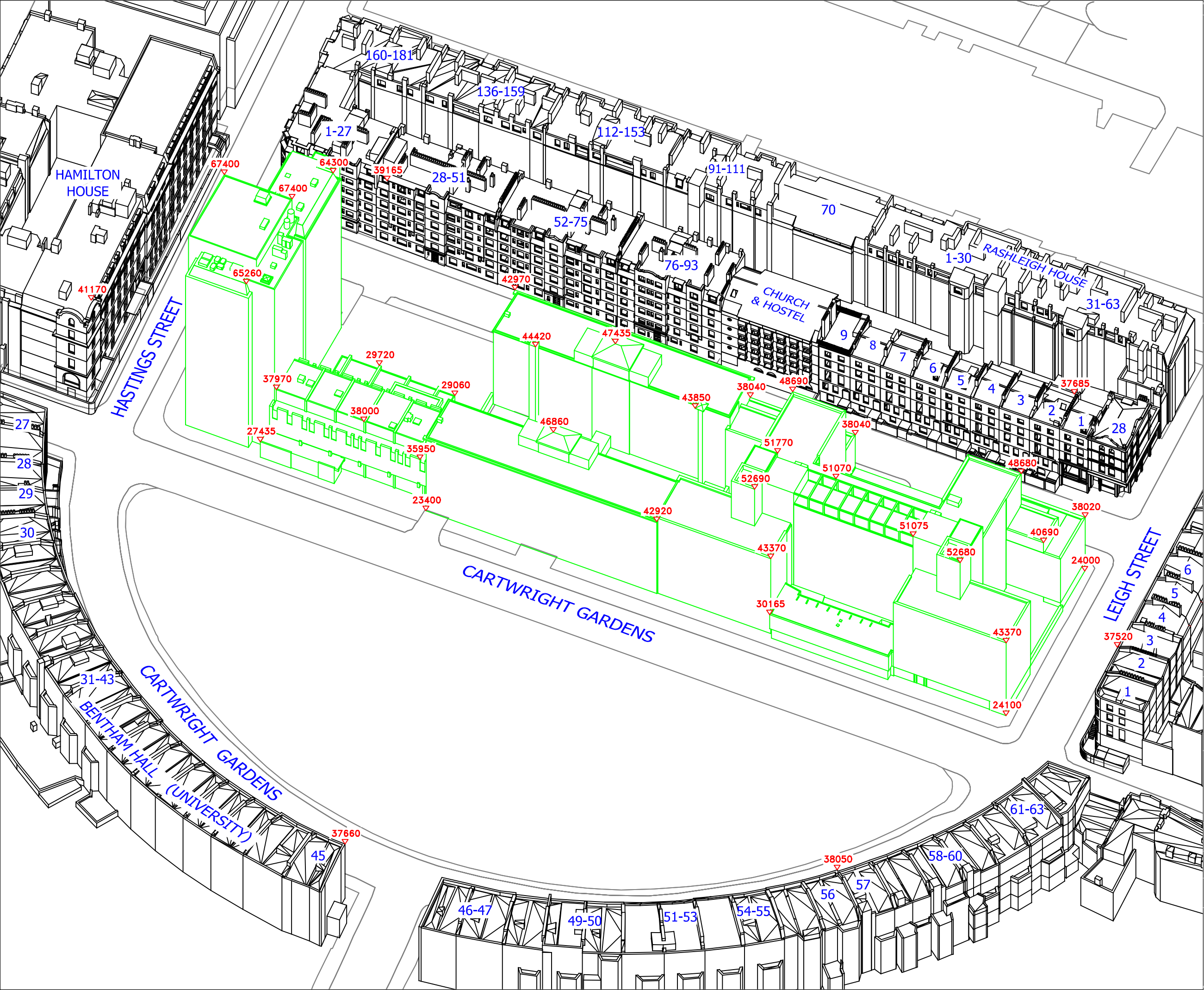
PLAN VIEW  
EXISTING BUILDINGS

|             |          |          |
|-------------|----------|----------|
| Scale       | Date     |          |
| 1:800 @ A3  | 01.10.12 |          |
| Drawn       | Checked  |          |
| MG          | JH       |          |
| Drawing No. | Ref No.  | Revision |
| 6173-19     | 03       | A        |



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Sources of Information

VERTEX MODELLING  
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FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
10417\_A04\_GIA-Massing\_24-09-12.skp  
RECEIVED 24/09/12

FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

Notes  
N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS GIVEN IN mm AOD  
EXISTING BUILDINGS SHOWN IN GREEN

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project  
CARTWRIGHT GARDENS  
LONDON WC1

Title  
3D VIEW  
EXISTING BUILDINGS

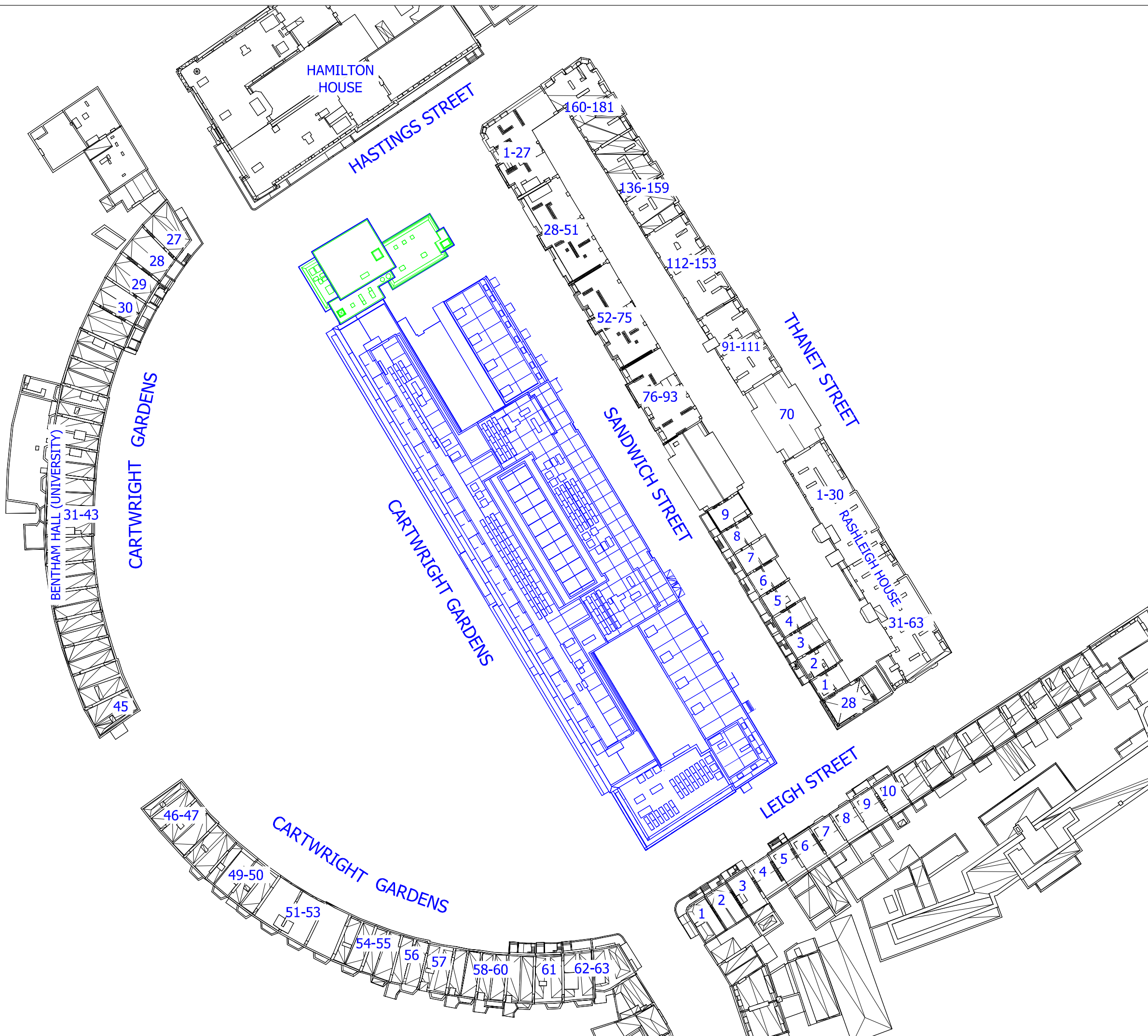
|       |          |
|-------|----------|
| Scale | Date     |
| NTS   | 01.10.12 |
| Drawn | Checked  |
| MG    | JH       |

|             |         |          |
|-------------|---------|----------|
| Drawing No. | Ref No. | Revision |
| 6173-20     | 03      | A        |

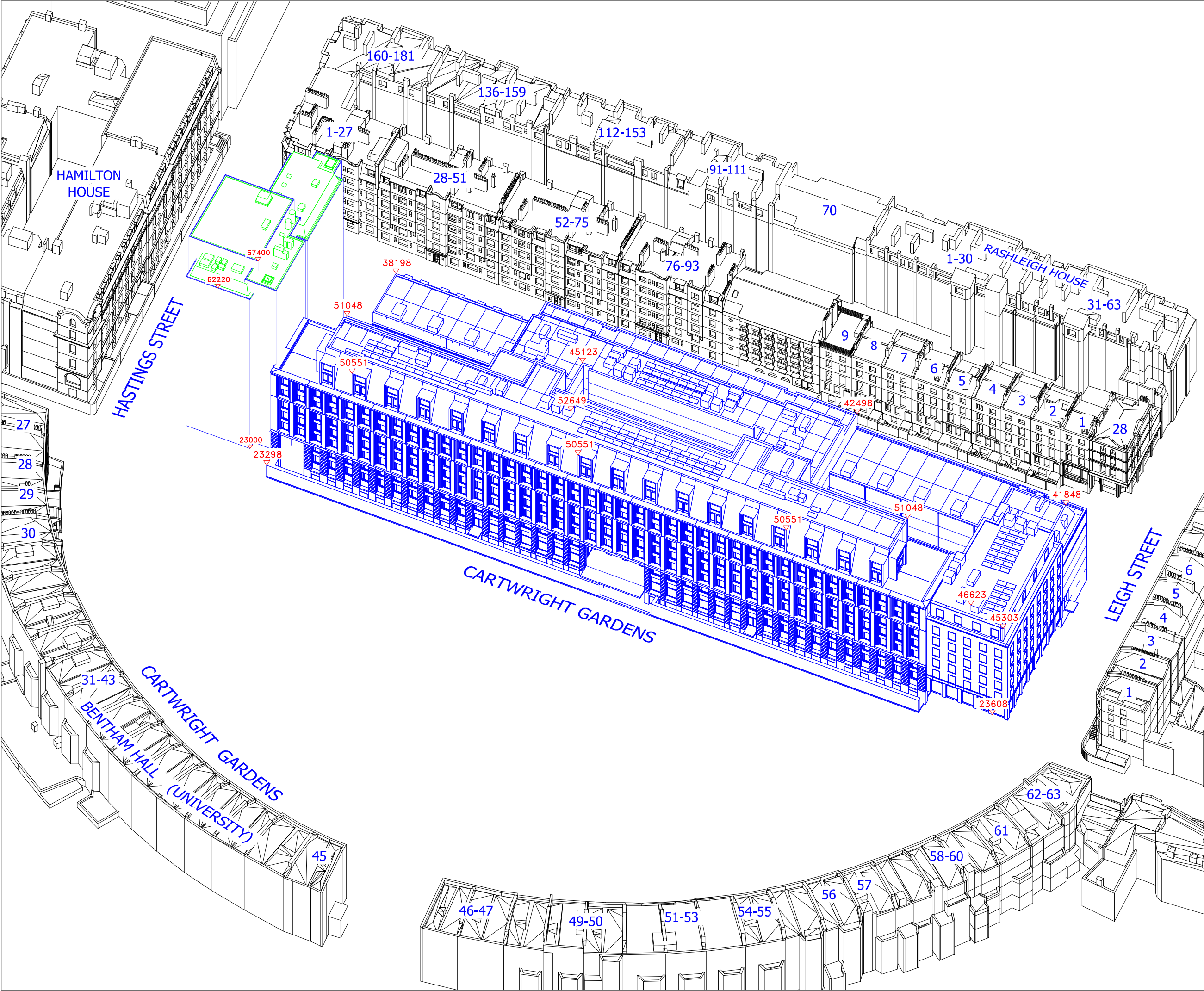












Sources of Information  
VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL  
  
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MSA  
IR12-6173 - SITE SURVEY  
  
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IR22-120213  
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IR24-260213  
10417\_C08\_GIA.skp

Notes  
N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS GIVEN IN mm AOD  
RETAINED EXISTING BUILDINGS  
SHOWN IN GREEN  
PROPOSED SCHEME SHOWN IN BLUE

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
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Project  
CARTWRIGHT GARDENS  
LONDON WC1

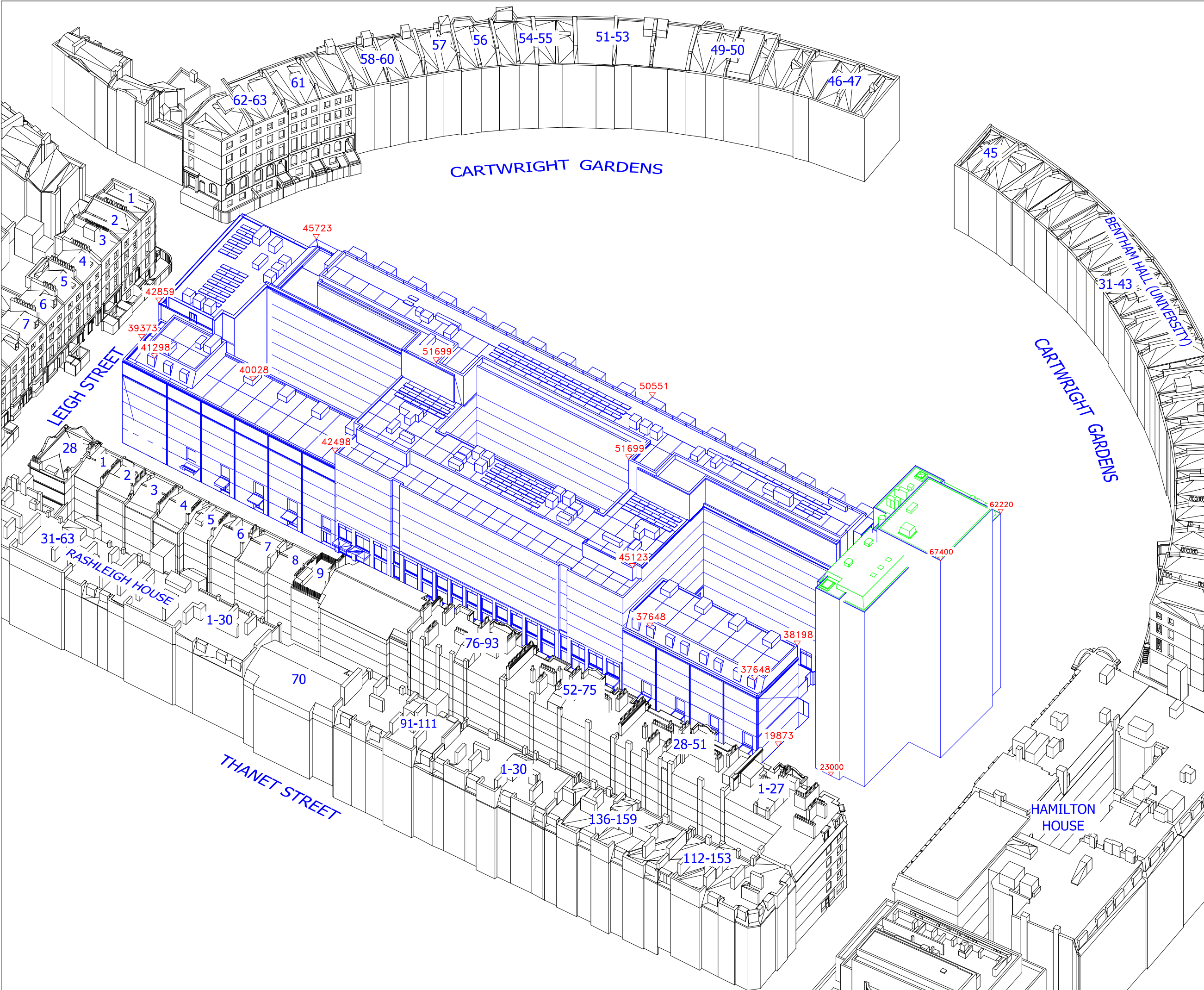
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3D VIEW  
PROPOSED SCHEME 260213

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| Scale | Date     |
| NTS   | 27.02.13 |
| Drawn | Checked  |
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| Drawing No. | Rel No. | Revision |
| 6173-47     | 07      | A        |

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Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR21-110213

IR22-120213  
10417\_C01\_GIA.dwg

IR24-260213  
10417\_C08\_GIA.skp

Notes

N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS GIVEN IN mm AOD  
RETAINED EXISTING BUILDINGS  
SHOWN IN GREEN  
PROPOSED SCHEME SHOWN IN BLUE

| Rev | Date | Description   | Initials |
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Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

3D VIEW  
PROPOSED SCHEME 260213

Scale

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Date

27.02.13

Checked

Drawing No.

6173-48

Rel No.

07

Revision

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Sources of Information

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TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
10417\_A04\_GIA-Massing\_24-09-12.skp  
RECEIVED 24/09/12

FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

Notes

N.B. DO NOT SCALE OFF THIS DRAWING

| Rev | Date | Description   | Initials |
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Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

WINDOW MAP  
1-51 SANDWICH STREET

Scale NTS Date 04.10.12

Drawn MG Checked JH

Drawing No. 6173-30 Rel No. 03 Revision A



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1-51 SANDWICH STREET





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TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
10417\_A04\_GIA-Massing\_24-09-12.skp  
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FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

Notes  
N.B. DO NOT SCALE OFF THIS DRAWING

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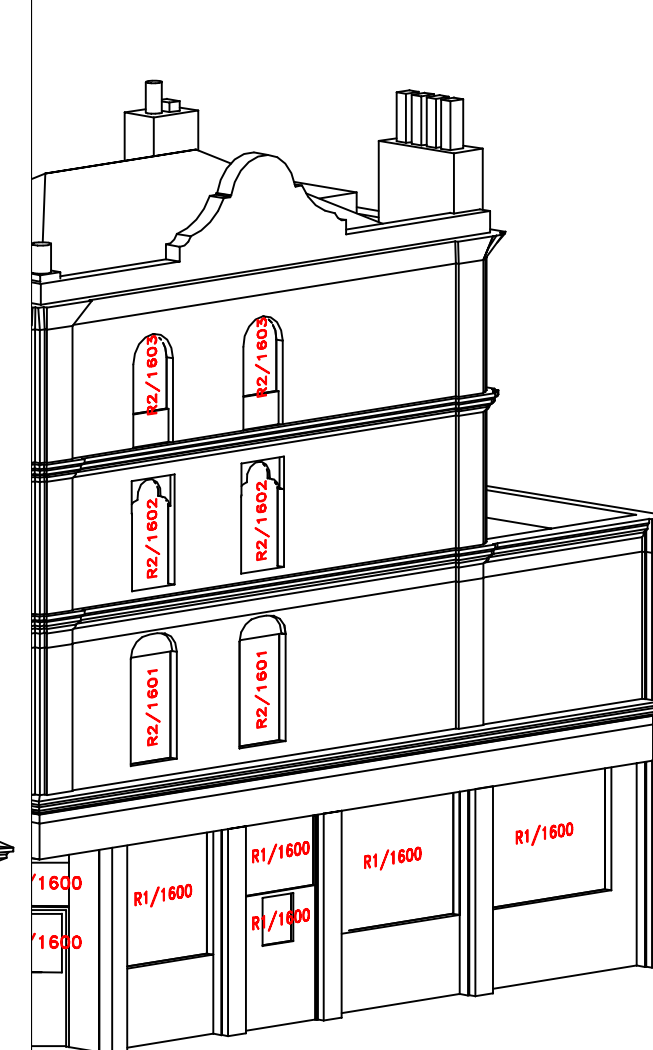
Project  
CARTWRIGHT GARDENS  
LONDON WC1

Title  
WINDOW MAP  
52-93 SANDWICH STREET

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| Scale | Date     |
| NTS   | 04.10.12 |
| Drawn | Checked  |
| MG    | JH       |

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| Drawing No. | Ref No. | Revision |
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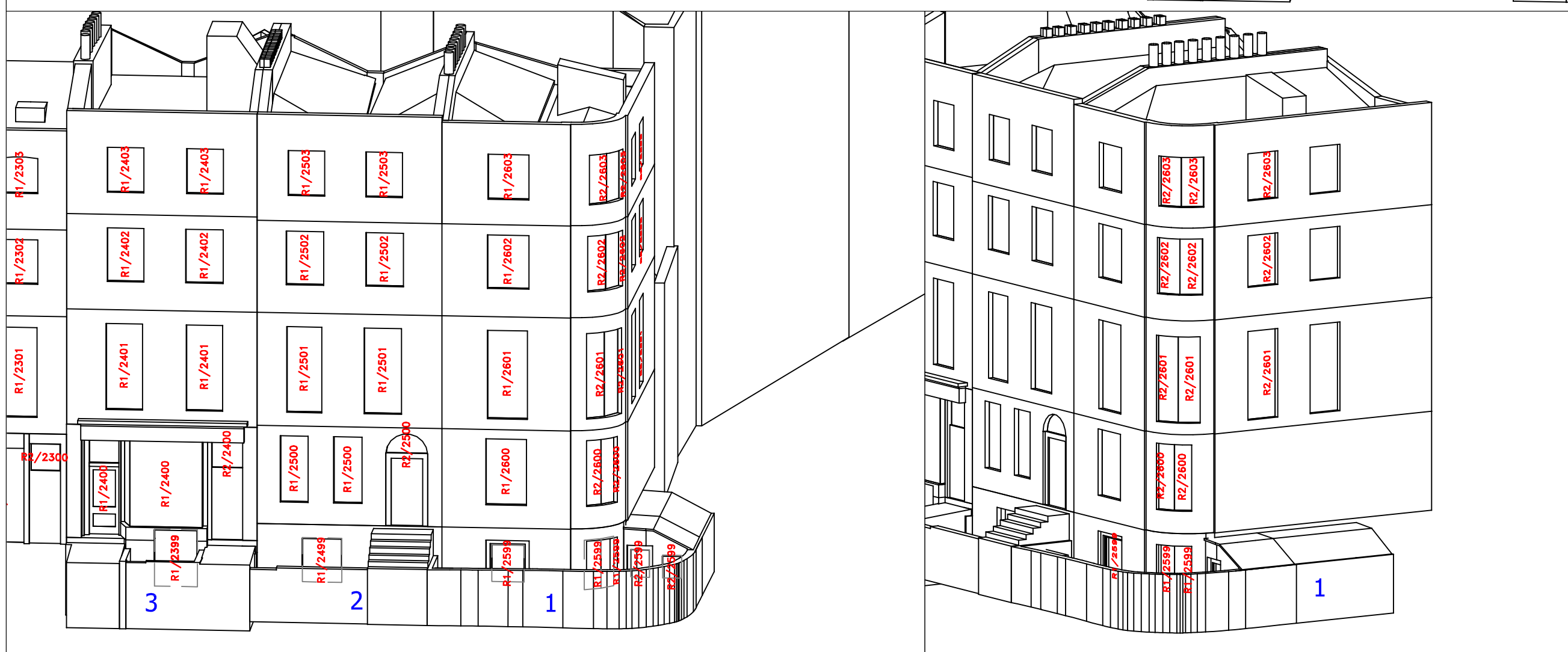
28 LEIGH SREET (PH)

28 LEIGH SREET (PH)

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IR12-6173 - SITE SURVEY

TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
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FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

## Notes

N.B. DO NOT SCALE OFF THIS DRAWING

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## Project

CARTWRIGHT GARDENS  
LONDON WC1

| Title |
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WINDOW MAP  
1-10 LEIGH STREET

|       |          |
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| Scale | Date     |
| NTS   | 04.10.12 |

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| Drawn | Checked |
| MG    | JH      |

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HAMILTON HOUSE,  
HASTINGS STREET

Sources of Information

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FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR16-6173 - PROPOSED 3D MODEL  
10417\_A04\_GIA-Massing\_24-09-12.skp  
RECEIVED 24/09/12

FLOOR PLANS  
1, 2, 3, 5, 7&8 LEIGH STREET  
1 SANDWICH STREET  
CHURCH & HOSTEL, SANDWICH STREET

Notes

N.B. DO NOT SCALE OFF THIS DRAWING

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
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Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

WINDOW MAP  
HAMILTON HOUSE, HASTINGS STREET

|       |          |
|-------|----------|
| Scale | Date     |
| NTS   | 04.10.12 |
| Drawn | Checked  |
| MG    | JH       |

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| 6173-35     | 03      | A        |



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# APPENDIX 3

RESULTS



| Vertical Sky Component          |        |          |          |          |      |      |
|---------------------------------|--------|----------|----------|----------|------|------|
| Room                            | Window | Room Use | Existing | Proposed | Loss | %    |
| HAMILTON HOUSE, HASTINGS STREET |        |          |          |          |      |      |
| R1/99                           | W1/99  | VENT     | 11.32    | 11.31    | 0.01 | 0.09 |
| R2/99                           | W2/99  | ASSUMED  | 5.61     | 5.60     | 0.01 | 0.18 |
| R3/99                           | W3/99  | VENT     | 10.88    | 10.84    | 0.04 | 0.37 |
| R4/99                           | W4/99  |          | 4.26     | 4.25     | 0.01 | 0.23 |
| R5/99                           | W5/99  |          | 8.50     | 8.41     | 0.09 | 1.06 |
| R6/99                           | W6/99  |          | 11.02    | 11.01    | 0.01 | 0.09 |
| R6/99                           | W7/99  |          | 11.84    | 11.76    | 0.08 | 0.68 |
| R7/99                           | W8/99  |          | 12.23    | 12.21    | 0.02 | 0.16 |
| R7/99                           | W9/99  |          | 12.36    | 12.34    | 0.02 | 0.16 |
| R8/99                           | W10/99 |          | 14.37    | 14.28    | 0.09 | 0.63 |
| R8/99                           | W11/99 |          | 13.50    | 13.40    | 0.10 | 0.74 |
| R9/99                           | W12/99 |          | 15.15    | 15.14    | 0.01 | 0.07 |
| R9/99                           | W13/99 |          | 15.15    | 15.14    | 0.01 | 0.07 |
| R10/99                          | W14/99 |          | 14.81    | 14.63    | 0.18 | 1.22 |
| R10/99                          | W15/99 |          | 12.59    | 12.58    | 0.01 | 0.08 |
| R11/99                          | W16/99 |          | 2.80     | 2.76     | 0.04 | 1.43 |
| R1/100                          | W1/100 |          | 26.25    | 26.25    | 0.00 | 0.00 |
| R1/100                          | W2/100 |          | 19.73    | 19.72    | 0.01 | 0.05 |
| R2/100                          | W3/100 |          | 15.75    | 15.45    | 0.30 | 1.90 |
| R2/100                          | W4/100 |          | 15.58    | 15.56    | 0.02 | 0.13 |



| Vertical Sky Component |         |          |          |          |      |      |
|------------------------|---------|----------|----------|----------|------|------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %    |
| R3/100                 | W5/100  |          | 14.66    | 14.61    | 0.05 | 0.34 |
| R3/100                 | W6/100  |          | 14.50    | 14.24    | 0.26 | 1.79 |
| R4/100                 | W7/100  |          | 14.47    | 14.46    | 0.01 | 0.07 |
| R4/100                 | W8/100  |          | 14.94    | 14.92    | 0.02 | 0.13 |
| R5/100                 | W9/100  |          | 12.12    | 12.11    | 0.01 | 0.08 |
| R5/100                 | W10/100 |          | 12.51    | 12.33    | 0.18 | 1.44 |
| R5/100                 | W11/100 |          | 15.17    | 14.99    | 0.18 | 1.19 |
| R5/100                 | W12/100 |          | 15.07    | 14.80    | 0.27 | 1.79 |
| R6/100                 | W13/100 |          | 16.91    | 16.83    | 0.08 | 0.47 |
| R6/100                 | W14/100 |          | 17.76    | 17.37    | 0.39 | 2.20 |
| R7/100                 | W15/100 |          | 18.28    | 18.18    | 0.10 | 0.55 |
| R7/100                 | W16/100 |          | 18.48    | 18.40    | 0.08 | 0.43 |
| R8/100                 | W17/100 |          | 18.98    | 18.83    | 0.15 | 0.79 |
| R8/100                 | W18/100 |          | 19.38    | 19.12    | 0.26 | 1.34 |
| R9/100                 | W19/100 |          | 19.44    | 19.29    | 0.15 | 0.77 |
| R9/100                 | W20/100 |          | 19.34    | 19.12    | 0.22 | 1.14 |
| R10/100                | W21/100 |          | 18.98    | 18.53    | 0.45 | 2.37 |
| R10/100                | W22/100 |          | 18.04    | 17.78    | 0.26 | 1.44 |
| R1/101                 | W1/101  |          | 30.82    | 30.82    | 0.00 | 0.00 |
| R1/101                 | W2/101  |          | 21.03    | 21.01    | 0.02 | 0.10 |
| R2/101                 | W3/101  |          | 16.96    | 16.66    | 0.30 | 1.77 |
| R2/101                 | W4/101  |          | 16.95    | 16.94    | 0.01 | 0.06 |
| R3/101                 | W5/101  |          | 16.17    | 16.12    | 0.05 | 0.31 |

| Vertical Sky Component |         |          |          |          |      |      |
|------------------------|---------|----------|----------|----------|------|------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %    |
| R3/101                 | W6/101  |          | 16.13    | 15.87    | 0.26 | 1.61 |
| R4/101                 | W7/101  |          | 16.22    | 16.21    | 0.01 | 0.06 |
| R4/101                 | W8/101  |          | 16.84    | 16.82    | 0.02 | 0.12 |
| R5/101                 | W9/101  |          | 17.47    | 17.45    | 0.02 | 0.11 |
| R6/101                 | W10/101 |          | 19.75    | 19.53    | 0.22 | 1.11 |
| R6/101                 | W11/101 |          | 20.58    | 20.42    | 0.16 | 0.78 |
| R6/101                 | W12/101 |          | 21.09    | 21.08    | 0.01 | 0.05 |
| R7/101                 | W13/101 |          | 21.95    | 21.81    | 0.14 | 0.64 |
| R7/101                 | W14/101 |          | 22.52    | 22.28    | 0.24 | 1.07 |
| R8/101                 | W15/101 |          | 22.78    | 22.65    | 0.13 | 0.57 |
| R8/101                 | W16/101 |          | 22.86    | 22.67    | 0.19 | 0.83 |
| R9/101                 | W17/101 |          | 22.71    | 22.29    | 0.42 | 1.85 |
| R9/101                 | W18/101 |          | 22.11    | 21.86    | 0.25 | 1.13 |
| R10/101                | W19/101 |          | 21.84    | 21.58    | 0.26 | 1.19 |
| R1/102                 | W1/102  |          | 34.01    | 34.01    | 0.00 | 0.00 |
| R1/102                 | W2/102  |          | 21.15    | 21.13    | 0.02 | 0.09 |
| R2/102                 | W3/102  |          | 17.32    | 17.01    | 0.31 | 1.79 |
| R2/102                 | W4/102  |          | 18.04    | 18.03    | 0.01 | 0.06 |
| R3/102                 | W5/102  |          | 17.41    | 17.35    | 0.06 | 0.34 |
| R3/102                 | W6/102  |          | 17.49    | 17.22    | 0.27 | 1.54 |
| R4/102                 | W7/102  |          | 17.71    | 17.69    | 0.02 | 0.11 |
| R4/102                 | W8/102  |          | 18.44    | 18.42    | 0.02 | 0.11 |

| Vertical Sky Component |         |          |          |          |      |      |
|------------------------|---------|----------|----------|----------|------|------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %    |
| R5/102                 | W9/102  |          | 19.20    | 19.18    | 0.02 | 0.10 |
| R6/102                 | W10/102 |          | 21.87    | 21.69    | 0.18 | 0.82 |
| R6/102                 | W11/102 |          | 22.86    | 22.75    | 0.11 | 0.48 |
| R6/102                 | W12/102 |          | 23.55    | 23.54    | 0.01 | 0.04 |
| R7/102                 | W13/102 |          | 24.67    | 24.53    | 0.14 | 0.57 |
| R7/102                 | W14/102 |          | 25.51    | 25.29    | 0.22 | 0.86 |
| R8/102                 | W15/102 |          | 26.02    | 25.91    | 0.11 | 0.42 |
| R8/102                 | W16/102 |          | 26.39    | 26.23    | 0.16 | 0.61 |
| R9/102                 | W17/102 |          | 26.58    | 26.21    | 0.37 | 1.39 |
| R9/102                 | W18/102 |          | 26.42    | 26.20    | 0.22 | 0.83 |
| R10/102                | W19/102 |          | 26.52    | 26.27    | 0.25 | 0.94 |
| R1/103                 | W1/103  |          | 38.22    | 38.22    | 0.00 | 0.00 |
| R1/103                 | W2/103  |          | 22.74    | 22.71    | 0.03 | 0.13 |
| R2/103                 | W3/103  |          | 17.83    | 17.52    | 0.31 | 1.74 |
| R2/103                 | W4/103  |          | 17.74    | 17.71    | 0.03 | 0.17 |
| R3/103                 | W5/103  |          | 17.31    | 17.02    | 0.29 | 1.68 |
| R3/103                 | W6/103  |          | 17.26    | 17.18    | 0.08 | 0.46 |
| R4/103                 | W7/103  |          | 17.62    | 17.58    | 0.04 | 0.23 |
| R4/103                 | W8/103  |          | 18.49    | 18.46    | 0.03 | 0.16 |
| R5/103                 | W9/103  |          | 19.43    | 19.40    | 0.03 | 0.15 |
| R6/103                 | W10/103 |          | 25.81    | 25.69    | 0.12 | 0.46 |
| R6/103                 | W11/103 |          | 26.89    | 26.71    | 0.18 | 0.67 |

| Vertical Sky Component |         |          |          |          |      |      |
|------------------------|---------|----------|----------|----------|------|------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %    |
| R7/103                 | W12/103 |          | 27.63    | 27.58    | 0.05 | 0.18 |
| R7/103                 | W13/103 |          | 28.31    | 28.20    | 0.11 | 0.39 |
| R8/103                 | W14/103 |          | 28.94    | 28.63    | 0.31 | 1.07 |
| R8/103                 | W15/103 |          | 29.32    | 29.12    | 0.20 | 0.68 |
| R9/103                 | W16/103 |          | 29.71    | 29.48    | 0.23 | 0.77 |
| R1/104                 | W1/104  |          | 39.13    | 39.13    | 0.00 | 0.00 |
| R1/104                 | W2/104  |          | 23.61    | 23.58    | 0.03 | 0.13 |
| R2/104                 | W3/104  |          | 20.06    | 20.02    | 0.04 | 0.20 |
| R2/104                 | W4/104  |          | 20.87    | 20.84    | 0.03 | 0.14 |
| R3/104                 | W5/104  |          | 20.55    | 20.10    | 0.45 | 2.19 |
| R3/104                 | W6/104  |          | 20.45    | 20.38    | 0.07 | 0.34 |
| R4/104                 | W7/104  |          | 21.13    | 20.91    | 0.22 | 1.04 |
| R4/104                 | W8/104  |          | 21.90    | 21.84    | 0.06 | 0.27 |
| R5/104                 | W9/104  |          | 23.24    | 23.21    | 0.03 | 0.13 |
| R8/104                 | W12/104 |          | 29.94    | 29.93    | 0.01 | 0.03 |
| R8/104                 | W13/104 |          | 30.94    | 30.80    | 0.14 | 0.45 |
| R9/104                 | W14/104 |          | 31.81    | 31.78    | 0.03 | 0.09 |
| R9/104                 | W15/104 |          | 32.57    | 32.48    | 0.09 | 0.28 |
| R10/104                | W16/104 |          | 33.19    | 33.08    | 0.11 | 0.33 |
| R10/104                | W17/104 |          | 33.97    | 33.80    | 0.17 | 0.50 |
| R11/104                | W18/104 |          | 34.60    | 34.38    | 0.22 | 0.64 |
| R1/113                 | W1/113  |          | 22.01    | 21.85    | 0.16 | 0.73 |

| Vertical Sky Component               |         |             |          |          |      |       |
|--------------------------------------|---------|-------------|----------|----------|------|-------|
| Room                                 | Window  | Room Use    | Existing | Proposed | Loss | %     |
| R1/113                               | W2/113  |             | 23.16    | 23.05    | 0.11 | 0.47  |
| R1/113                               | W3/113  |             | 24.09    | 24.07    | 0.02 | 0.08  |
| R1/114                               | W1/114  |             | 26.45    | 26.12    | 0.33 | 1.25  |
| R2/114                               | W2/114  |             | 28.26    | 28.17    | 0.09 | 0.32  |
| 1-27 SINCLAIR HOUSE, SANDWICH STREET |         |             |          |          |      |       |
| R1/200                               | W1/200  | CAFE        | 15.38    | 15.38    | 0.00 | 0.00  |
| R1/200                               | W2/200  | CAFE        | 14.66    | 14.66    | 0.00 | 0.00  |
| R1/200                               | W3/200  | CAFE        | 13.50    | 13.50    | 0.00 | 0.00  |
| R1/200                               | W4/200  | CAFE        | 14.87    | 14.87    | 0.00 | 0.00  |
| R1/200                               | W5/200  | CAFE        | 14.37    | 14.37    | 0.00 | 0.00  |
| R1/200                               | W6/200  | CAFE        | 15.11    | 15.10    | 0.01 | 0.07  |
| R1/200                               | W7/200  | CAFE        | 18.19    | 17.47    | 0.72 | 3.96  |
| R2/200                               | W8/200  | WINDOW BLOC | 18.08    | 16.76    | 1.32 | 7.30  |
| R2/200                               | W9/200  | WINDOW BLOC | 11.46    | 11.45    | 0.01 | 0.09  |
| R1/201                               | W1/201  |             | 17.45    | 17.45    | 0.00 | 0.00  |
| R1/201                               | W2/201  |             | 18.26    | 18.25    | 0.01 | 0.05  |
| R1/201                               | W3/201  |             | 19.37    | 18.79    | 0.58 | 2.99  |
| R2/201                               | W4/201  |             | 19.72    | 19.00    | 0.72 | 3.65  |
| R3/201                               | W5/201  |             | 19.91    | 18.96    | 0.95 | 4.77  |
| R3/201                               | W6/201  |             | 19.79    | 18.52    | 1.27 | 6.42  |
| R3/201                               | W7/201  |             | 13.08    | 13.07    | 0.01 | 0.08  |
| R4/201                               | W8/201  |             | 20.70    | 19.07    | 1.63 | 7.87  |
| R4/201                               | W9/201  |             | 21.00    | 19.04    | 1.96 | 9.33  |
| R4/201                               | W10/201 |             | 21.12    | 18.93    | 2.19 | 10.37 |

| Vertical Sky Component |         |          |          |          |      |       |
|------------------------|---------|----------|----------|----------|------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %     |
| R5/201                 | W11/201 |          | 11.70    | 9.28     | 2.42 | 20.68 |
| R5/201                 | W12/201 |          | 21.22    | 18.51    | 2.71 | 12.77 |
| R1/202                 | W1/202  |          | 20.97    | 20.97    | 0.00 | 0.00  |
| R1/202                 | W2/202  |          | 21.36    | 21.34    | 0.02 | 0.09  |
| R1/202                 | W3/202  |          | 21.21    | 20.64    | 0.57 | 2.69  |
| R2/202                 | W4/202  |          | 22.02    | 21.17    | 0.85 | 3.86  |
| R3/202                 | W5/202  |          | 21.61    | 20.54    | 1.07 | 4.95  |
| R3/202                 | W6/202  |          | 21.48    | 20.20    | 1.28 | 5.96  |
| R3/202                 | W7/202  |          | 14.32    | 14.31    | 0.01 | 0.07  |
| R4/202                 | W8/202  |          | 22.38    | 20.76    | 1.62 | 7.24  |
| R4/202                 | W9/202  |          | 22.65    | 20.70    | 1.95 | 8.61  |
| R4/202                 | W10/202 |          | 22.79    | 20.62    | 2.17 | 9.52  |
| R5/202                 | W11/202 |          | 12.60    | 10.17    | 2.43 | 19.29 |
| R5/202                 | W12/202 |          | 22.83    | 20.12    | 2.71 | 11.87 |
| R1/203                 | W1/203  |          | 25.03    | 25.03    | 0.00 | 0.00  |
| R1/203                 | W2/203  |          | 24.81    | 24.80    | 0.01 | 0.04  |
| R1/203                 | W3/203  |          | 23.21    | 22.66    | 0.55 | 2.37  |
| R1/203                 | W4/203  |          | 23.47    | 22.92    | 0.55 | 2.34  |
| R2/203                 | W5/203  |          | 23.92    | 23.09    | 0.83 | 3.47  |
| R3/203                 | W6/203  |          | 23.43    | 22.38    | 1.05 | 4.48  |
| R3/203                 | W7/203  |          | 23.23    | 21.96    | 1.27 | 5.47  |
| R3/203                 | W8/203  |          | 15.59    | 15.57    | 0.02 | 0.13  |
| R4/203                 | W9/203  |          | 24.08    | 22.48    | 1.60 | 6.64  |
| R4/203                 | W10/203 |          | 24.34    | 22.40    | 1.94 | 7.97  |
| R4/203                 | W11/203 |          | 24.47    | 22.31    | 2.16 | 8.83  |

| Vertical Sky Component |         |          |          |          |      |       |
|------------------------|---------|----------|----------|----------|------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %     |
| R5/203                 | W12/203 |          | 13.43    | 11.03    | 2.40 | 17.87 |
| R5/203                 | W13/203 |          | 24.44    | 21.76    | 2.68 | 10.97 |
| R1/204                 | W1/204  |          | 28.96    | 28.96    | 0.00 | 0.00  |
| R1/204                 | W2/204  |          | 27.97    | 27.96    | 0.01 | 0.04  |
| R1/204                 | W3/204  |          | 24.90    | 24.24    | 0.66 | 2.65  |
| R2/204                 | W4/204  |          | 25.88    | 25.08    | 0.80 | 3.09  |
| R3/204                 | W5/204  |          | 24.99    | 23.96    | 1.03 | 4.12  |
| R3/204                 | W6/204  |          | 24.86    | 23.62    | 1.24 | 4.99  |
| R3/204                 | W7/204  |          | 16.73    | 16.71    | 0.02 | 0.12  |
| R4/204                 | W8/204  |          | 25.79    | 24.25    | 1.54 | 5.97  |
| R4/204                 | W9/204  |          | 26.03    | 24.15    | 1.88 | 7.22  |
| R4/204                 | W10/204 |          | 26.15    | 24.05    | 2.10 | 8.03  |
| R5/204                 | W11/204 |          | 14.18    | 11.84    | 2.34 | 16.50 |
| R5/204                 | W12/204 |          | 25.78    | 23.17    | 2.61 | 10.12 |
| R1/205                 | W1/205  |          | 33.38    | 33.38    | 0.00 | 0.00  |
| R1/205                 | W2/205  |          | 31.29    | 31.16    | 0.13 | 0.42  |
| R1/205                 | W3/205  |          | 18.41    | 18.40    | 0.01 | 0.05  |
| R2/205                 | W4/205  |          | 26.94    | 26.17    | 0.77 | 2.86  |
| R3/205                 | W5/205  |          | 24.06    | 23.12    | 0.94 | 3.91  |
| R3/205                 | W6/205  |          | 16.02    | 16.00    | 0.02 | 0.12  |
| R4/205                 | W7/205  |          | 27.44    | 26.00    | 1.44 | 5.25  |
| R4/205                 | W8/205  |          | 27.60    | 25.86    | 1.74 | 6.30  |
| R4/205                 | W9/205  |          | 27.72    | 25.77    | 1.95 | 7.03  |

| Vertical Sky Component                |         |          |          |          |      |       |
|---------------------------------------|---------|----------|----------|----------|------|-------|
| Room                                  | Window  | Room Use | Existing | Proposed | Loss | %     |
| R5/205                                | W10/205 |          | 23.71    | 21.01    | 2.70 | 11.39 |
| R1/210                                | W1/210  | HALL     | 18.04    | 15.93    | 2.11 | 11.70 |
| R1/210                                | W2/210  | HALL     | 18.22    | 16.15    | 2.07 | 11.36 |
| R1/210                                | W3/210  | HALL     | 17.55    | 15.71    | 1.84 | 10.48 |
| R1/210                                | W4/210  | HALL     | 18.09    | 16.34    | 1.75 | 9.67  |
| R1/210                                | W5/210  | HALL     | 17.74    | 15.95    | 1.79 | 10.09 |
| R1/210                                | W6/210  | HALL     | 18.24    | 16.54    | 1.70 | 9.32  |
| R1/210                                | W7/210  | HALL     | 17.51    | 15.48    | 2.03 | 11.59 |
| R1/210                                | W8/210  | HALL     | 17.05    | 15.30    | 1.75 | 10.26 |
| R1/210                                | W9/210  | HALL     | 17.42    | 15.75    | 1.67 | 9.59  |
| R1/210                                | W10/210 | HALL     | 19.08    | 16.77    | 2.31 | 12.11 |
| R2/210                                | W11/210 |          | 10.32    | 7.78     | 2.54 | 24.61 |
| R2/210                                | W12/210 |          | 19.49    | 16.62    | 2.87 | 14.73 |
| 28-51 SINCLAIR HOUSE, SANDWICH STREET |         |          |          |          |      |       |
| R1/300                                | W1/300  |          | 20.71    | 17.11    | 3.60 | 17.38 |
| R2/300                                | W2/300  |          | 20.86    | 16.84    | 4.02 | 19.27 |
| R2/300                                | W3/300  |          | 20.43    | 16.35    | 4.08 | 19.97 |
| R2/300                                | W4/300  |          | 20.09    | 15.85    | 4.24 | 21.11 |
| R3/300                                | W5/300  |          | 18.81    | 14.17    | 4.64 | 24.67 |
| R4/300                                | W6/300  |          | 18.58    | 13.14    | 5.44 | 29.28 |
| R5/300                                | W7/300  |          | 19.68    | 14.32    | 5.36 | 27.24 |
| R5/300                                | W8/300  |          | 19.76    | 14.41    | 5.35 | 27.07 |
| R5/300                                | W9/300  |          | 19.65    | 14.48    | 5.17 | 26.31 |
| R6/300                                | W10/300 |          | 19.35    | 14.29    | 5.06 | 26.15 |



| Vertical Sky Component |         |             |          |          |      |       |
|------------------------|---------|-------------|----------|----------|------|-------|
| Room                   | Window  | Room Use    | Existing | Proposed | Loss | %     |
| R1/301                 | W1/301  |             | 22.31    | 18.92    | 3.39 | 15.19 |
| R2/301                 | W2/301  |             | 21.75    | 17.97    | 3.78 | 17.38 |
| R2/301                 | W3/301  |             | 21.86    | 18.06    | 3.80 | 17.38 |
| R2/301                 | W4/301  |             | 21.23    | 17.33    | 3.90 | 18.37 |
| R3/301                 | W5/301  |             | 20.56    | 16.31    | 4.25 | 20.67 |
| R4/301                 | W6/301  |             | 21.80    | 17.12    | 4.68 | 21.47 |
| R5/301                 | W7/301  | WINDOW BLOC | 19.51    | 14.90    | 4.61 | 23.63 |
| R5/301                 | W8/301  | WINDOW BLOC | 20.97    | 16.23    | 4.74 | 22.60 |
| R6/301                 | W9/301  |             | 21.29    | 16.63    | 4.66 | 21.89 |
| R6/301                 | W10/301 |             | 20.64    | 16.14    | 4.50 | 21.80 |
| R7/301                 | W11/301 |             | 21.28    | 16.85    | 4.43 | 20.82 |
| R1/302                 | W1/302  |             | 24.02    | 20.69    | 3.33 | 13.86 |
| R2/302                 | W2/302  |             | 24.48    | 20.72    | 3.76 | 15.36 |
| R2/302                 | W3/302  |             | 24.02    | 20.30    | 3.72 | 15.49 |
| R2/302                 | W4/302  |             | 23.92    | 20.08    | 3.84 | 16.05 |
| R3/302                 | W5/302  |             | 22.36    | 18.24    | 4.12 | 18.43 |
| R4/302                 | W6/302  |             | 23.78    | 19.42    | 4.36 | 18.33 |
| R5/302                 | W7/302  |             | 21.41    | 17.12    | 4.29 | 20.04 |
| R5/302                 | W8/302  |             | 23.00    | 18.60    | 4.40 | 19.13 |
| R6/302                 | W9/302  |             | 23.84    | 19.44    | 4.40 | 18.46 |
| R6/302                 | W10/302 |             | 23.99    | 19.67    | 4.32 | 18.01 |

| Vertical Sky Component |         |          |          |          |      |       |
|------------------------|---------|----------|----------|----------|------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %     |
| R7/302                 | W11/302 |          | 23.55    | 19.45    | 4.10 | 17.41 |
| R1/303                 | W1/303  |          | 25.77    | 22.45    | 3.32 | 12.88 |
| R2/303                 | W2/303  |          | 26.28    | 22.53    | 3.75 | 14.27 |
| R2/303                 | W3/303  |          | 25.85    | 22.12    | 3.73 | 14.43 |
| R2/303                 | W4/303  |          | 25.79    | 21.93    | 3.86 | 14.97 |
| R3/303                 | W5/303  |          | 24.17    | 20.00    | 4.17 | 17.25 |
| R4/303                 | W6/303  |          | 25.80    | 21.36    | 4.44 | 17.21 |
| R5/303                 | W7/303  |          | 23.37    | 19.09    | 4.28 | 18.31 |
| R5/303                 | W8/303  |          | 25.31    | 20.82    | 4.49 | 17.74 |
| R6/303                 | W9/303  |          | 26.05    | 21.70    | 4.35 | 16.70 |
| R6/303                 | W10/303 |          | 26.27    | 21.96    | 4.31 | 16.41 |
| R7/303                 | W11/303 |          | 25.90    | 21.78    | 4.12 | 15.91 |
| R1/304                 | W1/304  |          | 27.34    | 24.10    | 3.24 | 11.85 |
| R2/304                 | W2/304  |          | 28.05    | 24.36    | 3.69 | 13.16 |
| R2/304                 | W3/304  |          | 27.65    | 24.00    | 3.65 | 13.20 |
| R2/304                 | W4/304  |          | 27.63    | 23.84    | 3.79 | 13.72 |
| R3/304                 | W5/304  |          | 25.87    | 21.75    | 4.12 | 15.93 |
| R4/304                 | W6/304  |          | 27.79    | 23.38    | 4.41 | 15.87 |
| R5/304                 | W7/304  |          | 24.97    | 20.70    | 4.27 | 17.10 |
| R5/304                 | W8/304  |          | 27.31    | 22.79    | 4.52 | 16.55 |
| R6/304                 | W9/304  |          | 28.27    | 23.86    | 4.41 | 15.60 |

| Vertical Sky Component |         |          |          |          |      |       |
|------------------------|---------|----------|----------|----------|------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %     |
| R6/304                 | W10/304 |          | 28.57    | 24.17    | 4.40 | 15.40 |
| R7/304                 | W11/304 |          | 27.99    | 23.73    | 4.26 | 15.22 |
| R1/305                 | W1/305  |          | 23.56    | 20.56    | 3.00 | 12.73 |
| R2/305                 | W2/305  |          | 29.10    | 25.62    | 3.48 | 11.96 |
| R2/305                 | W3/305  |          | 28.94    | 25.47    | 3.47 | 11.99 |
| R2/305                 | W4/305  |          | 28.79    | 25.22    | 3.57 | 12.40 |
| R3/305                 | W5/305  |          | 21.43    | 17.89    | 3.54 | 16.52 |
| R4/305                 | W6/305  |          | 29.67    | 25.44    | 4.23 | 14.26 |
| R5/305                 | W7/305  |          | 23.55    | 19.47    | 4.08 | 17.32 |
| R5/305                 | W8/305  |          | 23.35    | 19.12    | 4.23 | 18.12 |
| R6/305                 | W9/305  |          | 29.90    | 25.59    | 4.31 | 14.41 |
| R6/305                 | W10/305 |          | 30.05    | 25.71    | 4.34 | 14.44 |
| R7/305                 | W11/305 |          | 25.89    | 21.51    | 4.38 | 16.92 |
| R1/310                 | W1/310  | HALL     | 19.87    | 14.90    | 4.97 | 25.01 |
| R1/310                 | W2/310  | HALL     | 16.51    | 11.47    | 5.04 | 30.53 |
| R1/310                 | W3/310  | HALL     | 18.64    | 13.35    | 5.29 | 28.38 |
| R1/310                 | W4/310  | HALL     | 16.77    | 11.84    | 4.93 | 29.40 |
| R1/310                 | W5/310  | HALL     | 18.84    | 13.67    | 5.17 | 27.44 |
| R1/310                 | W6/310  | HALL     | 15.98    | 11.14    | 4.84 | 30.29 |
| R1/310                 | W7/310  | HALL     | 17.83    | 12.65    | 5.18 | 29.05 |
| R1/310                 | W8/310  | HALL     | 18.04    | 12.98    | 5.06 | 28.05 |
| R1/310                 | W9/310  | HALL     | 17.60    | 12.52    | 5.08 | 28.86 |
| R1/310                 | W10/310 | HALL     | 16.96    | 11.98    | 4.98 | 29.36 |
| R1/310                 | W11/310 | HALL     | 19.76    | 14.39    | 5.37 | 27.18 |

| Vertical Sky Component                |         |          |          |          |      |       |
|---------------------------------------|---------|----------|----------|----------|------|-------|
| Room                                  | Window  | Room Use | Existing | Proposed | Loss | %     |
| 52-75 SINCLAIR HOUSE, SANDWICH STREET |         |          |          |          |      |       |
| R1/400                                | W1/400  |          | 19.05    | 14.27    | 4.78 | 25.09 |
| R2/400                                | W2/400  |          | 18.72    | 14.24    | 4.48 | 23.93 |
| R2/400                                | W3/400  |          | 18.22    | 13.97    | 4.25 | 23.33 |
| R2/400                                | W4/400  |          | 17.97    | 13.91    | 4.06 | 22.59 |
| R3/400                                | W5/400  |          | 16.34    | 12.67    | 3.67 | 22.46 |
| R4/400                                | W6/400  | HALL     | 16.56    | 13.19    | 3.37 | 20.35 |
| R4/400                                | W7/400  | HALL     | 14.82    | 11.67    | 3.15 | 21.26 |
| R4/400                                | W8/400  | HALL     | 14.91    | 11.88    | 3.03 | 20.32 |
| R4/400                                | W9/400  | HALL     | 14.61    | 11.62    | 2.99 | 20.47 |
| R4/400                                | W10/400 | HALL     | 14.69    | 11.83    | 2.86 | 19.47 |
| R4/400                                | W11/400 | HALL     | 13.60    | 10.84    | 2.76 | 20.29 |
| R4/400                                | W12/400 | HALL     | 13.82    | 10.90    | 2.92 | 21.13 |
| R5/400                                | W13/400 |          | 13.88    | 11.93    | 1.95 | 14.05 |
| R5/400                                | W14/400 |          | 14.43    | 12.90    | 1.53 | 10.60 |
| R6/400                                | W15/400 |          | 13.74    | 12.86    | 0.88 | 6.40  |
| R6/400                                | W16/400 |          | 13.33    | 12.87    | 0.46 | 3.45  |
| R7/400                                | W17/400 |          | 12.50    | 12.36    | 0.14 | 1.12  |
| R1/401                                | W1/401  |          | 21.14    | 16.99    | 4.15 | 19.63 |
| R2/401                                | W2/401  |          | 20.50    | 16.66    | 3.84 | 18.73 |
| R2/401                                | W3/401  |          | 20.15    | 16.44    | 3.71 | 18.41 |
| R2/401                                | W4/401  |          | 19.78    | 16.37    | 3.41 | 17.24 |
| R3/401                                | W5/401  |          | 18.59    | 15.54    | 3.05 | 16.41 |

| Vertical Sky Component |         |             |          |          |       |       |
|------------------------|---------|-------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use    | Existing | Proposed | Loss  | %     |
| R4/401                 | W6/401  |             | 18.59    | 16.01    | 2.58  | 13.88 |
| R5/401                 | W7/401  |             | 16.10    | 14.77    | 1.33  | 8.26  |
| R5/401                 | W8/401  |             | 16.59    | 15.66    | 0.93  | 5.61  |
| R6/401                 | W9/401  |             | 15.61    | 15.27    | 0.34  | 2.18  |
| R6/401                 | W10/401 |             | 15.12    | 15.12    | 0.00  | 0.00  |
| R7/401                 | W11/401 |             | 14.70    | 14.91    | -0.21 | -1.43 |
| R1/402                 | W1/402  |             | 23.37    | 19.59    | 3.78  | 16.17 |
| R2/402                 | W2/402  |             | 23.30    | 19.62    | 3.68  | 15.79 |
| R2/402                 | W3/402  |             | 22.83    | 19.47    | 3.36  | 14.72 |
| R2/402                 | W4/402  |             | 22.68    | 19.48    | 3.20  | 14.11 |
| R3/402                 | W5/402  |             | 20.97    | 18.18    | 2.79  | 13.30 |
| R4/402                 | W6/402  |             | 21.10    | 18.94    | 2.16  | 10.24 |
| R5/402                 | W7/402  |             | 18.46    | 17.33    | 1.13  | 6.12  |
| R5/402                 | W8/402  |             | 19.08    | 18.34    | 0.74  | 3.88  |
| R6/402                 | W9/402  |             | 18.57    | 18.45    | 0.12  | 0.65  |
| R6/402                 | W10/402 |             | 18.24    | 18.34    | -0.10 | -0.55 |
| R7/402                 | W11/402 |             | 17.44    | 17.80    | -0.36 | -2.06 |
| R1/403                 | W1/403  |             | 25.84    | 21.99    | 3.85  | 14.90 |
| R2/403                 | W2/403  | WINDOW BLOC | 25.89    | 22.10    | 3.79  | 14.64 |
| R2/403                 | W3/403  | WINDOW BLOC | 25.47    | 22.02    | 3.45  | 13.55 |
| R2/403                 | W4/403  | WINDOW BLOC | 25.38    | 22.07    | 3.31  | 13.04 |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R3/403                 | W5/403  |          | 23.67    | 20.77    | 2.90  | 12.25 |
| R4/403                 | W6/403  |          | 24.01    | 21.75    | 2.26  | 9.41  |
| R5/403                 | W7/403  |          | 21.41    | 20.17    | 1.24  | 5.79  |
| R5/403                 | W8/403  |          | 22.05    | 21.20    | 0.85  | 3.85  |
| R6/403                 | W9/403  |          | 21.73    | 21.51    | 0.22  | 1.01  |
| R6/403                 | W10/403 |          | 21.54    | 21.57    | -0.03 | -0.14 |
| R7/403                 | W11/403 |          | 20.76    | 21.12    | -0.36 | -1.73 |
| R1/404                 | W1/404  |          | 27.97    | 23.93    | 4.04  | 14.44 |
| R2/404                 | W2/404  |          | 28.53    | 24.51    | 4.02  | 14.09 |
| R2/404                 | W3/404  |          | 28.39    | 24.67    | 3.72  | 13.10 |
| R2/404                 | W4/404  |          | 28.18    | 24.59    | 3.59  | 12.74 |
| R3/404                 | W5/404  |          | 26.49    | 23.27    | 3.22  | 12.16 |
| R4/404                 | W6/404  |          | 27.24    | 24.65    | 2.59  | 9.51  |
| R5/404                 | W7/404  |          | 24.65    | 23.02    | 1.63  | 6.61  |
| R5/404                 | W8/404  |          | 25.52    | 24.23    | 1.29  | 5.05  |
| R6/404                 | W9/404  |          | 25.42    | 24.82    | 0.60  | 2.36  |
| R6/404                 | W10/404 |          | 25.34    | 25.03    | 0.31  | 1.22  |
| R7/404                 | W11/404 |          | 24.52    | 24.66    | -0.14 | -0.57 |
| R1/405                 | W1/405  |          | 27.18    | 23.00    | 4.18  | 15.38 |
| R2/405                 | W2/405  |          | 30.03    | 25.79    | 4.24  | 14.12 |
| R2/405                 | W3/405  |          | 29.95    | 25.95    | 4.00  | 13.36 |

| Vertical Sky Component                |         |             |          |          |       |       |
|---------------------------------------|---------|-------------|----------|----------|-------|-------|
| Room                                  | Window  | Room Use    | Existing | Proposed | Loss  | %     |
| R2/405                                | W4/405  |             | 29.97    | 26.04    | 3.93  | 13.11 |
| R3/405                                | W5/405  |             | 26.54    | 22.89    | 3.65  | 13.75 |
| R4/405                                | W6/405  |             | 30.57    | 27.34    | 3.23  | 10.57 |
| R5/405                                | W7/405  | WINDOW BLOC | 26.56    | 23.95    | 2.61  | 9.83  |
| R5/405                                | W8/405  | WINDOW BLOC | 25.47    | 23.18    | 2.29  | 8.99  |
| R6/405                                | W9/405  |             | 28.85    | 27.44    | 1.41  | 4.89  |
| R7/405                                | W10/405 |             | 26.57    | 25.62    | 0.95  | 3.58  |
| 76-93 SINCLAIR HOUSE, SANDWICH STREET |         |             |          |          |       |       |
| R1/500                                | W1/500  |             | 11.23    | 11.56    | -0.33 | -2.94 |
| R1/500                                | W2/500  |             | 6.92     | 7.41     | -0.49 | -7.08 |
| R2/500                                | W3/500  | HALL        | 10.94    | 11.21    | -0.27 | -2.47 |
| R2/500                                | W4/500  | HALL        | 10.83    | 11.09    | -0.26 | -2.40 |
| R2/500                                | W5/500  | HALL        | 9.62     | 9.76     | -0.14 | -1.46 |
| R2/500                                | W6/500  | HALL        | 9.75     | 9.91     | -0.16 | -1.64 |
| R2/500                                | W7/500  | HALL        | 7.53     | 7.69     | -0.16 | -2.12 |
| R2/500                                | W8/500  | HALL        | 9.51     | 9.66     | -0.15 | -1.58 |
| R2/500                                | W9/500  | HALL        | 9.64     | 9.80     | -0.16 | -1.66 |
| R2/500                                | W10/500 | HALL        | 7.42     | 7.59     | -0.17 | -2.29 |
| R3/500                                | W11/500 |             | 6.60     | 6.51     | 0.09  | 1.36  |
| R3/500                                | W12/500 |             | 10.36    | 10.38    | -0.02 | -0.19 |
| R3/500                                | W13/500 |             | 11.14    | 11.10    | 0.04  | 0.36  |
| R4/500                                | W14/500 |             | 11.35    | 11.23    | 0.12  | 1.06  |
| R5/500                                | W15/500 |             | 11.50    | 11.26    | 0.24  | 2.09  |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R1/501                 | W1/501  |          | 13.52    | 14.07    | -0.55 | -4.07 |
| R1/501                 | W2/501  |          | 8.76     | 9.39     | -0.63 | -7.19 |
| R2/501                 | W3/501  |          | 13.44    | 13.86    | -0.42 | -3.13 |
| R2/501                 | W4/501  |          | 13.46    | 13.80    | -0.34 | -2.53 |
| R2/501                 | W5/501  |          | 13.47    | 13.74    | -0.27 | -2.00 |
| R2/501                 | W6/501  |          | 13.44    | 13.63    | -0.19 | -1.41 |
| R3/501                 | W7/501  |          | 8.37     | 8.38     | -0.01 | -0.12 |
| R3/501                 | W8/501  |          | 13.00    | 13.07    | -0.07 | -0.54 |
| R4/501                 | W9/501  |          | 13.29    | 13.26    | 0.03  | 0.23  |
| R5/501                 | W10/501 |          | 13.80    | 13.69    | 0.11  | 0.80  |
| R1/502                 | W1/502  |          | 16.34    | 16.99    | -0.65 | -3.98 |
| R1/502                 | W2/502  |          | 10.78    | 11.43    | -0.65 | -6.03 |
| R2/502                 | W3/502  |          | 16.29    | 16.79    | -0.50 | -3.07 |
| R2/502                 | W4/502  |          | 16.16    | 16.55    | -0.39 | -2.41 |
| R2/502                 | W5/502  |          | 16.37    | 16.70    | -0.33 | -2.02 |
| R2/502                 | W6/502  |          | 16.34    | 16.60    | -0.26 | -1.59 |
| R3/502                 | W7/502  |          | 10.23    | 10.37    | -0.14 | -1.37 |
| R3/502                 | W8/502  |          | 15.94    | 16.14    | -0.20 | -1.25 |
| R4/502                 | W9/502  |          | 16.61    | 16.76    | -0.15 | -0.90 |
| R5/502                 | W10/502 |          | 16.74    | 16.87    | -0.13 | -0.78 |
| R1/503                 | W1/503  |          | 19.77    | 20.49    | -0.72 | -3.64 |
| R1/503                 | W2/503  |          | 13.27    | 13.90    | -0.63 | -4.75 |



| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R2/503                 | W3/503  |          | 19.92    | 20.54    | -0.62 | -3.11 |
| R2/503                 | W4/503  |          | 19.77    | 20.31    | -0.54 | -2.73 |
| R2/503                 | W5/503  |          | 20.01    | 20.54    | -0.53 | -2.65 |
| R2/503                 | W6/503  |          | 19.98    | 20.46    | -0.48 | -2.40 |
| R3/503                 | W7/503  |          | 12.52    | 12.94    | -0.42 | -3.35 |
| R3/503                 | W8/503  |          | 19.46    | 19.96    | -0.50 | -2.57 |
| R4/503                 | W9/503  |          | 20.19    | 20.67    | -0.48 | -2.38 |
| R5/503                 | W10/503 |          | 20.26    | 20.75    | -0.49 | -2.42 |
| R1/504                 | W1/504  |          | 23.55    | 24.14    | -0.59 | -2.51 |
| R1/504                 | W2/504  |          | 16.08    | 16.52    | -0.44 | -2.74 |
| R2/504                 | W3/504  |          | 24.05    | 24.78    | -0.73 | -3.04 |
| R2/504                 | W4/504  |          | 24.13    | 24.88    | -0.75 | -3.11 |
| R2/504                 | W5/504  |          | 24.14    | 24.91    | -0.77 | -3.19 |
| R2/504                 | W6/504  |          | 24.10    | 24.88    | -0.78 | -3.24 |
| R3/504                 | W7/504  |          | 14.82    | 15.58    | -0.76 | -5.13 |
| R3/504                 | W8/504  |          | 23.24    | 24.04    | -0.80 | -3.44 |
| R4/504                 | W9/504  |          | 24.27    | 25.12    | -0.85 | -3.50 |
| R5/504                 | W10/504 |          | 24.15    | 25.00    | -0.85 | -3.52 |
| R1/505                 | W1/505  |          | 26.21    | 25.66    | 0.55  | 2.10  |
| R2/505                 | W2/505  |          | 28.43    | 28.35    | 0.08  | 0.28  |
| R2/505                 | W3/505  |          | 28.48    | 28.44    | 0.04  | 0.14  |
| R2/505                 | W4/505  |          | 28.48    | 28.51    | -0.03 | -0.11 |
| R2/505                 | W5/505  |          | 28.42    | 28.52    | -0.10 | -0.35 |

| Vertical Sky Component                              |         |            |          |          |       |       |
|-----------------------------------------------------|---------|------------|----------|----------|-------|-------|
| Room                                                | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| R3/505                                              | W6/505  |            | 26.24    | 26.27    | -0.03 | -0.11 |
| R4/505                                              | W7/505  |            | 28.54    | 28.71    | -0.17 | -0.60 |
| R5/505                                              | W8/505  |            | 27.01    | 27.03    | -0.02 | -0.07 |
| CHURCH & HOSTEL, SANDWICH STREET / 70 THANET STREET |         |            |          |          |       |       |
| R1/600                                              | W1/600  | ENTRANCE   | 11.22    | 9.77     | 1.45  | 12.92 |
| R1/600                                              | W2/600  | ENTRANCE   | 11.04    | 9.51     | 1.53  | 13.86 |
| R1/600                                              | W3/600  | ENTRANCE   | 12.13    | 10.51    | 1.62  | 13.36 |
| R1/601                                              | W1/601  | LKD        | 13.92    | 13.70    | 0.22  | 1.58  |
| R1/601                                              | W2/601  | LKD        | 10.88    | 10.90    | -0.02 | -0.18 |
| R1/601                                              | W3/601  | LKD        | 14.38    | 13.92    | 0.46  | 3.20  |
| R1/601                                              | W4/601  | LKD        | 5.78     | 5.52     | 0.26  | 4.50  |
| R2/601                                              | W5/601  | BEDROOM    | 4.81     | 4.83     | -0.02 | -0.42 |
| R2/601                                              | W6/601  | BEDROOM    | 14.67    | 14.00    | 0.67  | 4.57  |
| R2/601                                              | W7/601  | BEDROOM    | 5.90     | 5.59     | 0.31  | 5.25  |
| R3/601                                              | W8/601  | BEDROOM    | 4.85     | 4.85     | 0.00  | 0.00  |
| R3/601                                              | W9/601  | BEDROOM    | 15.07    | 14.11    | 0.96  | 6.37  |
| R3/601                                              | W10/601 | BEDROOM    | 5.80     | 5.47     | 0.33  | 5.69  |
| R4/601                                              | W11/601 | DINING     | 4.71     | 4.72     | -0.01 | -0.21 |
| R4/601                                              | W12/601 | DINING     | 15.53    | 14.22    | 1.31  | 8.44  |
| R4/601                                              | W13/601 | DINING     | 6.14     | 5.79     | 0.35  | 5.70  |
| R5/601                                              | W14/601 | LIVINGROOM | 4.92     | 4.92     | 0.00  | 0.00  |
| R5/601                                              | W15/601 | LIVINGROOM | 15.89    | 14.38    | 1.51  | 9.50  |
| R5/601                                              | W16/601 | LIVINGROOM | 6.16     | 5.91     | 0.25  | 4.06  |
| R5/601                                              | W17/601 | LIVINGROOM | 4.99     | 4.95     | 0.04  | 0.80  |
| R5/601                                              | W18/601 | LIVINGROOM | 16.25    | 14.54    | 1.71  | 10.52 |

| Vertical Sky Component |         |            |          |          |       |       |
|------------------------|---------|------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| R5/601                 | W19/601 | LIVINGROOM | 13.66    | 13.43    | 0.23  | 1.68  |
| R1/602                 | W1/602  | LKD        | 16.58    | 16.64    | -0.06 | -0.36 |
| R1/602                 | W2/602  | LKD        | 12.04    | 12.08    | -0.04 | -0.33 |
| R1/602                 | W3/602  | LKD        | 16.99    | 16.84    | 0.15  | 0.88  |
| R1/602                 | W4/602  | LKD        | 6.48     | 6.53     | -0.05 | -0.77 |
| R2/602                 | W5/602  | BEDROOM    | 5.66     | 5.69     | -0.03 | -0.53 |
| R2/602                 | W6/602  | BEDROOM    | 17.25    | 16.94    | 0.31  | 1.80  |
| R2/602                 | W7/602  | BEDROOM    | 6.59     | 6.60     | -0.01 | -0.15 |
| R3/602                 | W8/602  | BEDROOM    | 5.70     | 5.74     | -0.04 | -0.70 |
| R3/602                 | W9/602  | BEDROOM    | 17.66    | 17.05    | 0.61  | 3.45  |
| R3/602                 | W10/602 | BEDROOM    | 6.47     | 6.48     | -0.01 | -0.15 |
| R4/602                 | W11/602 | DINING     | 5.59     | 5.62     | -0.03 | -0.54 |
| R4/602                 | W12/602 | DINING     | 18.14    | 17.18    | 0.96  | 5.29  |
| R4/602                 | W13/602 | DINING     | 6.82     | 6.81     | 0.01  | 0.15  |
| R5/602                 | W14/602 | LIVINGROOM | 5.80     | 5.83     | -0.03 | -0.52 |
| R5/602                 | W15/602 | LIVINGROOM | 18.51    | 17.35    | 1.16  | 6.27  |
| R5/602                 | W16/602 | LIVINGROOM | 6.83     | 6.94     | -0.11 | -1.61 |
| R5/602                 | W17/602 | LIVINGROOM | 5.89     | 5.87     | 0.02  | 0.34  |
| R5/602                 | W18/602 | LIVINGROOM | 18.87    | 17.53    | 1.34  | 7.10  |
| R5/602                 | W19/602 | LIVINGROOM | 14.91    | 15.06    | -0.15 | -1.01 |
| R1/603                 | W1/603  | LKD        | 19.68    | 20.16    | -0.48 | -2.44 |
| R1/603                 | W2/603  | LKD        | 13.34    | 13.44    | -0.10 | -0.75 |
| R1/603                 | W3/603  | LKD        | 20.11    | 20.42    | -0.31 | -1.54 |
| R1/603                 | W4/603  | LKD        | 7.24     | 7.63     | -0.39 | -5.39 |
| R2/603                 | W5/603  | BEDROOM    | 6.56     | 6.66     | -0.10 | -1.52 |
| R2/603                 | W6/603  | BEDROOM    | 20.29    | 20.51    | -0.22 | -1.08 |
| R2/603                 | W7/603  | BEDROOM    | 7.31     | 7.70     | -0.39 | -5.34 |

| Vertical Sky Component |         |            |          |          |       |       |
|------------------------|---------|------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| R3/603                 | W8/603  | BEDROOM    | 6.63     | 6.72     | -0.09 | -1.36 |
| R3/603                 | W9/603  | BEDROOM    | 20.65    | 20.63    | 0.02  | 0.10  |
| R3/603                 | W10/603 | BEDROOM    | 7.18     | 7.56     | -0.38 | -5.29 |
| R4/603                 | W11/603 | DINING     | 6.53     | 6.62     | -0.09 | -1.38 |
| R4/603                 | W12/603 | DINING     | 21.14    | 20.76    | 0.38  | 1.80  |
| R4/603                 | W13/603 | DINING     | 7.52     | 7.90     | -0.38 | -5.05 |
| R5/603                 | W14/603 | LIVINGROOM | 6.76     | 6.84     | -0.08 | -1.18 |
| R5/603                 | W15/603 | LIVINGROOM | 21.50    | 20.94    | 0.56  | 2.60  |
| R5/603                 | W16/603 | LIVINGROOM | 7.52     | 8.03     | -0.51 | -6.78 |
| R5/603                 | W17/603 | LIVINGROOM | 6.86     | 6.89     | -0.03 | -0.44 |
| R5/603                 | W18/603 | LIVINGROOM | 21.84    | 21.14    | 0.70  | 3.21  |
| R5/603                 | W19/603 | LIVINGROOM | 16.51    | 17.06    | -0.55 | -3.33 |
| R1/604                 | W1/604  | LKD        | 23.18    | 24.05    | -0.87 | -3.75 |
| R1/604                 | W2/604  | LKD        | 15.07    | 15.24    | -0.17 | -1.13 |
| R1/604                 | W3/604  | LKD        | 23.68    | 24.54    | -0.86 | -3.63 |
| R1/604                 | W4/604  | LKD        | 7.71     | 8.39     | -0.68 | -8.82 |
| R2/604                 | W5/604  | BEDROOM    | 7.15     | 7.33     | -0.18 | -2.52 |
| R2/604                 | W6/604  | BEDROOM    | 23.76    | 24.61    | -0.85 | -3.58 |
| R2/604                 | W7/604  | BEDROOM    | 7.74     | 8.44     | -0.70 | -9.04 |
| R3/604                 | W8/604  | BEDROOM    | 7.23     | 7.42     | -0.19 | -2.63 |
| R3/604                 | W9/604  | BEDROOM    | 24.05    | 24.72    | -0.67 | -2.79 |
| R3/604                 | W10/604 | BEDROOM    | 7.59     | 8.29     | -0.70 | -9.22 |
| R4/604                 | W11/604 | DINING     | 7.16     | 7.35     | -0.19 | -2.65 |
| R4/604                 | W12/604 | DINING     | 24.50    | 24.82    | -0.32 | -1.31 |
| R4/604                 | W13/604 | DINING     | 7.91     | 8.61     | -0.70 | -8.85 |
| R5/604                 | W14/604 | LIVINGROOM | 7.39     | 7.58     | -0.19 | -2.57 |

| Vertical Sky Component |         |            |          |          |       |        |
|------------------------|---------|------------|----------|----------|-------|--------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %      |
| R5/604                 | W15/604 | LIVINGROOM | 24.83    | 24.98    | -0.15 | -0.60  |
| R5/604                 | W16/604 | LIVINGROOM | 7.90     | 8.72     | -0.82 | -10.38 |
| R5/604                 | W17/604 | LIVINGROOM | 7.51     | 7.64     | -0.13 | -1.73  |
| R5/604                 | W18/604 | LIVINGROOM | 25.11    | 25.16    | -0.05 | -0.20  |
| R5/604                 | W19/604 | LIVINGROOM | 18.91    | 19.79    | -0.88 | -4.65  |
| R1/605                 | W1/605  |            | 78.61    | 78.28    | 0.33  | 0.42   |
| R2/605                 | W2/605  | DINING     | 21.01    | 21.09    | -0.08 | -0.38  |
| R2/605                 | W3/605  | DINING     | 25.95    | 26.39    | -0.44 | -1.70  |
| R3/605                 | W4/605  | BEDROOM    | 25.87    | 26.36    | -0.49 | -1.89  |
| R4/605                 | W5/605  | BEDROOM    | 25.94    | 26.37    | -0.43 | -1.66  |
| R5/605                 | W6/605  | BEDROOM    | 26.21    | 26.39    | -0.18 | -0.69  |
| R6/605                 | W7/605  | BEDROOM    | 26.38    | 26.39    | -0.01 | -0.04  |
| R7/605                 | W8/605  | BEDROOM    | 26.50    | 26.46    | 0.04  | 0.15   |
| R7/605                 | W9/605  | BEDROOM    | 29.82    | 30.81    | -0.99 | -3.32  |
| R1/610                 | W1/610  | CHURCH     | 10.62    | 9.80     | 0.82  | 7.72   |
| R1/610                 | W2/610  | CHURCH     | 10.79    | 9.81     | 0.98  | 9.08   |
| R1/610                 | W3/610  | CHURCH     | 11.18    | 9.92     | 1.26  | 11.27  |
| R1/4005                | W1/4005 |            | 21.75    | 21.69    | 0.06  | 0.28   |
| R1/4005                | W2/4005 |            | 31.16    | 30.89    | 0.27  | 0.87   |
| R2/4005                | W3/4005 |            | 31.30    | 31.08    | 0.22  | 0.70   |
| R3/4005                | W4/4005 |            | 31.58    | 31.39    | 0.19  | 0.60   |
| R4/4005                | W5/4005 |            | 31.85    | 31.59    | 0.26  | 0.82   |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R5/4005                | W6/4005 |          | 31.98    | 31.69    | 0.29  | 0.91  |
| R5/4005                | W7/4005 |          | 18.24    | 18.48    | -0.24 | -1.32 |
| 9 SANDWICH STREET      |         |          |          |          |       |       |
| R1/699                 | W1/699  |          | 12.92    | 11.14    | 1.78  | 13.78 |
| R1/700                 | W1/700  |          | 15.20    | 13.44    | 1.76  | 11.58 |
| R1/700                 | W2/700  |          | 15.99    | 14.16    | 1.83  | 11.44 |
| R2/700                 | W3/700  | HALL     | 17.03    | 15.20    | 1.83  | 10.75 |
| R1/701                 | W1/701  |          | 18.29    | 16.87    | 1.42  | 7.76  |
| R1/701                 | W2/701  |          | 19.07    | 17.64    | 1.43  | 7.50  |
| R1/702                 | W1/702  |          | 21.84    | 21.23    | 0.61  | 2.79  |
| R1/702                 | W2/702  |          | 22.60    | 22.04    | 0.56  | 2.48  |
| R1/703                 | W1/703  |          | 25.02    | 25.10    | -0.08 | -0.32 |
| R1/703                 | W2/703  |          | 25.67    | 25.77    | -0.10 | -0.39 |
| 8 SANDWICH STREET      |         |          |          |          |       |       |
| R1/799                 | W1/799  |          | 14.15    | 12.16    | 1.99  | 14.06 |
| R1/800                 | W1/800  |          | 16.66    | 14.86    | 1.80  | 10.80 |
| R1/800                 | W2/800  |          | 16.86    | 15.06    | 1.80  | 10.68 |
| R2/800                 | W3/800  | HALL     | 17.60    | 15.97    | 1.63  | 9.26  |
| R1/801                 | W1/801  |          | 19.52    | 18.22    | 1.30  | 6.66  |
| R1/801                 | W2/801  |          | 19.61    | 18.59    | 1.02  | 5.20  |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R1/802                 | W1/802  |          | 22.95    | 22.79    | 0.16  | 0.70  |
| R1/802                 | W2/802  |          | 22.97    | 23.18    | -0.21 | -0.91 |
| R1/803                 | W1/803  |          | 25.90    | 26.38    | -0.48 | -1.85 |
| R1/803                 | W2/803  |          | 25.76    | 26.59    | -0.83 | -3.22 |
| 7 SANDWICH STREET      |         |          |          |          |       |       |
| R1/899                 | W1/899  |          | 14.81    | 12.67    | 2.14  | 14.45 |
| R1/900                 | W1/900  |          | 17.24    | 15.53    | 1.71  | 9.92  |
| R1/900                 | W2/900  |          | 17.33    | 15.71    | 1.62  | 9.35  |
| R2/900                 | W3/900  | HALL     | 18.00    | 16.68    | 1.32  | 7.33  |
| R1/901                 | W1/901  |          | 19.85    | 19.09    | 0.76  | 3.83  |
| R1/901                 | W2/901  |          | 19.94    | 19.44    | 0.50  | 2.51  |
| R1/902                 | W1/902  |          | 23.14    | 23.77    | -0.63 | -2.72 |
| R1/902                 | W2/902  |          | 23.16    | 24.13    | -0.97 | -4.19 |
| R1/903                 | W1/903  |          | 25.58    | 26.84    | -1.26 | -4.93 |
| R1/903                 | W2/903  |          | 25.64    | 27.07    | -1.43 | -5.58 |
| 6 SANDWICH STREET      |         |          |          |          |       |       |
| R1/999                 | W1/999  |          | 14.70    | 12.76    | 1.94  | 13.20 |
| R2/999                 | W2/999  | HALL     | 0.80     | 0.54     | 0.26  | 32.50 |
| R1/1000                | W1/1000 |          | 17.65    | 16.27    | 1.38  | 7.82  |
| R1/1000                | W2/1000 |          | 17.69    | 16.44    | 1.25  | 7.07  |
| R2/1000                | W3/1000 | HALL     | 18.22    | 17.34    | 0.88  | 4.83  |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R1/1001                | W1/1001 |          | 20.09    | 19.86    | 0.23  | 1.14  |
| R1/1001                | W2/1001 |          | 20.12    | 20.15    | -0.03 | -0.15 |
| R1/1002                | W1/1002 |          | 22.99    | 24.18    | -1.19 | -5.18 |
| R1/1002                | W2/1002 |          | 23.01    | 24.48    | -1.47 | -6.39 |
| R1/1003                | W1/1003 |          | 25.72    | 27.39    | -1.67 | -6.49 |
| R1/1003                | W2/1003 |          | 25.71    | 27.60    | -1.89 | -7.35 |
| R1/1004                | W1/1004 |          | 28.66    | 30.20    | -1.54 | -5.37 |
| 5 SANDWICH STREET      |         |          |          |          |       |       |
| R1/1099                | W1/1099 |          | 14.59    | 12.89    | 1.70  | 11.65 |
| R1/1100                | W1/1100 |          | 17.09    | 16.01    | 1.08  | 6.32  |
| R1/1100                | W2/1100 |          | 16.93    | 15.98    | 0.95  | 5.61  |
| R2/1100                | W3/1100 | HALL     | 15.89    | 15.35    | 0.54  | 3.40  |
| R1/1101                | W1/1101 |          | 20.44    | 20.78    | -0.34 | -1.66 |
| R1/1101                | W2/1101 |          | 20.55    | 21.03    | -0.48 | -2.34 |
| R1/1102                | W1/1102 |          | 23.26    | 24.86    | -1.60 | -6.88 |
| R1/1102                | W2/1102 |          | 23.34    | 25.13    | -1.79 | -7.67 |
| R1/1103                | W1/1103 |          | 25.98    | 27.98    | -2.00 | -7.70 |
| R1/1103                | W2/1103 |          | 26.04    | 28.19    | -2.15 | -8.26 |
| R1/1104                | W1/1104 |          | 28.92    | 30.66    | -1.74 | -6.02 |
| 4 SANDWICH STREET      |         |          |          |          |       |       |



| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R1/1199                | W1/1199 |          | 14.59    | 13.01    | 1.58  | 10.83 |
| R1/1200                | W1/1200 |          | 17.12    | 16.33    | 0.79  | 4.61  |
| R1/1200                | W2/1200 |          | 17.05    | 16.31    | 0.74  | 4.34  |
| R2/1200                | W3/1200 | HALL     | 15.83    | 15.41    | 0.42  | 2.65  |
| R1/1201                | W1/1201 |          | 20.55    | 21.11    | -0.56 | -2.73 |
| R1/1201                | W2/1201 |          | 20.58    | 21.15    | -0.57 | -2.77 |
| R1/1202                | W1/1202 |          | 23.48    | 25.30    | -1.82 | -7.75 |
| R1/1202                | W2/1202 |          | 23.45    | 25.32    | -1.87 | -7.97 |
| R1/1203                | W1/1203 |          | 26.12    | 28.32    | -2.20 | -8.42 |
| R1/1203                | W2/1203 |          | 26.20    | 28.36    | -2.16 | -8.24 |
| 3 SANDWICH STREET      |         |          |          |          |       |       |
| R1/1299                | W1/1299 |          | 15.12    | 13.71    | 1.41  | 9.33  |
| R2/1299                | W2/1299 |          | 7.78     | 7.78     | 0.00  | 0.00  |
| R2/1299                | W3/1299 |          | 10.24    | 9.85     | 0.39  | 3.81  |
| R1/1300                | W1/1300 |          | 18.34    | 17.74    | 0.60  | 3.27  |
| R1/1300                | W2/1300 |          | 18.43    | 17.86    | 0.57  | 3.09  |
| R2/1300                | W3/1300 | HALL     | 19.05    | 18.75    | 0.30  | 1.57  |
| R1/1301                | W1/1301 |          | 21.23    | 22.01    | -0.78 | -3.67 |
| R1/1301                | W2/1301 |          | 21.43    | 22.17    | -0.74 | -3.45 |
| R1/1302                | W1/1302 |          | 23.97    | 25.86    | -1.89 | -7.88 |
| R1/1302                | W2/1302 |          | 24.20    | 26.04    | -1.84 | -7.60 |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R1/1303                | W1/1303 |          | 26.74    | 28.89    | -2.15 | -8.04 |
| R1/1303                | W2/1303 |          | 27.01    | 29.08    | -2.07 | -7.66 |
| 2 SANDWICH STREET      |         |          |          |          |       |       |
| R1/1399                | W1/1399 |          | 15.34    | 14.29    | 1.05  | 6.84  |
| R1/1400                | W1/1400 |          | 17.72    | 17.27    | 0.45  | 2.54  |
| R1/1400                | W2/1400 |          | 17.64    | 17.23    | 0.41  | 2.32  |
| R2/1400                | W3/1400 | HALL     | 17.10    | 16.94    | 0.16  | 0.94  |
| R1/1401                | W1/1401 |          | 21.40    | 22.07    | -0.67 | -3.13 |
| R1/1401                | W2/1401 |          | 21.69    | 22.27    | -0.58 | -2.67 |
| R1/1402                | W1/1402 |          | 24.52    | 26.24    | -1.72 | -7.01 |
| R1/1402                | W2/1402 |          | 24.93    | 26.43    | -1.50 | -6.02 |
| R1/1403                | W1/1403 |          | 27.34    | 29.25    | -1.91 | -6.99 |
| R1/1403                | W2/1403 |          | 27.85    | 29.51    | -1.66 | -5.96 |
| R1/1404                | W1/1404 |          | 28.68    | 29.74    | -1.06 | -3.70 |
| R1/1404                | W2/1404 |          | 29.19    | 30.51    | -1.32 | -4.52 |
| R1/1404                | W3/1404 |          | 44.02    | 44.71    | -0.69 | -1.57 |
| 1 SANDWICH STREET      |         |          |          |          |       |       |
| R1/1499                | W1/1499 |          | 17.83    | 17.16    | 0.67  | 3.76  |
| R1/1500                | W1/1500 |          | 19.37    | 18.99    | 0.38  | 1.96  |
| R2/1500                | W2/1500 | HALL     | 8.36     | 8.31     | 0.05  | 0.60  |
| R1/1501                | W1/1501 |          | 22.78    | 23.32    | -0.54 | -2.37 |

| Vertical Sky Component |          |          |          |          |       |       |
|------------------------|----------|----------|----------|----------|-------|-------|
| Room                   | Window   | Room Use | Existing | Proposed | Loss  | %     |
| R1/1501                | W2/1501  |          | 23.25    | 23.79    | -0.54 | -2.32 |
| R1/1502                | W1/1502  |          | 25.63    | 26.74    | -1.11 | -4.33 |
| R1/1502                | W2/1502  |          | 26.12    | 27.10    | -0.98 | -3.75 |
| R1/1503                | W1/1503  |          | 28.82    | 29.97    | -1.15 | -3.99 |
| R1/1503                | W2/1503  |          | 29.27    | 30.18    | -0.91 | -3.11 |
| R1/1504                | W1/1504  |          | 31.27    | 31.91    | -0.64 | -2.05 |
| 28 LEIGH STREET (PH)   |          |          |          |          |       |       |
| R1/1600                | W1/1600  | PH       | 4.12     | 4.24     | -0.12 | -2.91 |
| R1/1600                | W2/1600  | PH       | 2.92     | 3.16     | -0.24 | -8.22 |
| R1/1600                | W3/1600  | PH       | 0.63     | 0.40     | 0.23  | 36.51 |
| R1/1600                | W4/1600  | PH       | 18.75    | 18.73    | 0.02  | 0.11  |
| R1/1600                | W5/1600  | PH       | 11.61    | 11.53    | 0.08  | 0.69  |
| R1/1600                | W6/1600  | PH       | 2.45     | 2.55     | -0.10 | -4.08 |
| R1/1600                | W7/1600  | PH       | 18.66    | 18.66    | 0.00  | 0.00  |
| R1/1600                | W8/1600  | PH       | 19.93    | 19.93    | 0.00  | 0.00  |
| R1/1600                | W9/1600  | PH       | 21.63    | 21.63    | 0.00  | 0.00  |
| R1/1600                | W10/1600 | PH       | 19.04    | 19.04    | 0.00  | 0.00  |
| R1/1600                | W11/1600 | PH       | 19.28    | 19.28    | 0.00  | 0.00  |
| R1/1601                | W1/1601  |          | 24.50    | 25.11    | -0.61 | -2.49 |
| R2/1601                | W2/1601  |          | 24.99    | 25.69    | -0.70 | -2.80 |
| R2/1601                | W3/1601  |          | 26.88    | 26.88    | 0.00  | 0.00  |
| R2/1601                | W4/1601  |          | 26.97    | 26.97    | 0.00  | 0.00  |
| R1/1602                | W1/1602  |          | 27.56    | 28.49    | -0.93 | -3.37 |
| R2/1602                | W2/1602  |          | 28.03    | 29.01    | -0.98 | -3.50 |
| R2/1602                | W3/1602  |          | 31.45    | 31.45    | 0.00  | 0.00  |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R2/1602                | W4/1602 |          | 31.49    | 31.49    | 0.00  | 0.00  |
| R1/1603                | W1/1603 |          | 30.07    | 30.96    | -0.89 | -2.96 |
| R2/1603                | W2/1603 |          | 30.51    | 31.35    | -0.84 | -2.75 |
| R2/1603                | W3/1603 |          | 34.78    | 34.78    | 0.00  | 0.00  |
| R2/1603                | W4/1603 |          | 34.82    | 34.82    | 0.00  | 0.00  |
| 10 LEIGH STREET        |         |          |          |          |       |       |
| R1/1699                | W1/1699 |          | 1.05     | 1.05     | 0.00  | 0.00  |
| R1/1699                | W2/1699 |          | 0.79     | 0.79     | 0.00  | 0.00  |
| R1/1700                | W1/1700 |          | 20.57    | 20.90    | -0.33 | -1.60 |
| R1/1700                | W2/1700 |          | 20.61    | 20.92    | -0.31 | -1.50 |
| R2/1700                | W4/1700 | HALL     | 16.71    | 17.06    | -0.35 | -2.09 |
| R1/1701                | W2/1701 |          | 25.17    | 25.71    | -0.54 | -2.15 |
| R1/1701                | W3/1701 |          | 25.99    | 26.52    | -0.53 | -2.04 |
| R1/1702                | W1/1702 |          | 29.35    | 29.94    | -0.59 | -2.01 |
| R1/1702                | W2/1702 |          | 29.84    | 30.50    | -0.66 | -2.21 |
| R1/1703                | W1/1703 |          | 32.61    | 33.10    | -0.49 | -1.50 |
| R1/1703                | W2/1703 |          | 32.85    | 33.44    | -0.59 | -1.80 |
| R1/1704                | W1/1704 |          | 35.04    | 35.49    | -0.45 | -1.28 |
| 9 LEIGH STREET         |         |          |          |          |       |       |
| R1/1799                | W1/1799 |          | 19.41    | 19.38    | 0.03  | 0.15  |
| R1/1799                | W2/1799 |          | 1.53     | 1.53     | 0.00  | 0.00  |

| Vertical Sky Component |         |            |          |          |       |       |
|------------------------|---------|------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| R1/1800                | W1/1800 |            | 22.41    | 22.59    | -0.18 | -0.80 |
| R1/1800                | W2/1800 |            | 22.16    | 22.18    | -0.02 | -0.09 |
| R2/1800                | W4/1800 | HALL       | 18.79    | 18.80    | -0.01 | -0.05 |
| R1/1801                | W1/1801 |            | 26.73    | 27.16    | -0.43 | -1.61 |
| R1/1801                | W2/1801 |            | 27.02    | 27.33    | -0.31 | -1.15 |
| R1/1802                | W1/1802 |            | 30.08    | 30.74    | -0.66 | -2.19 |
| R1/1802                | W2/1802 |            | 30.22    | 30.88    | -0.66 | -2.18 |
| R1/1803                | W1/1803 |            | 32.80    | 33.50    | -0.70 | -2.13 |
| R1/1803                | W2/1803 |            | 32.78    | 33.57    | -0.79 | -2.41 |
| 8 LEIGH STREET         |         |            |          |          |       |       |
| R1/1900                | W1/1900 | RESTAURANT | 22.20    | 22.22    | -0.02 | -0.09 |
| R1/1900                | W2/1900 | RESTAURANT | 24.42    | 24.03    | 0.39  | 1.60  |
| R1/1900                | W3/1900 | RESTAURANT | 22.30    | 21.63    | 0.67  | 3.00  |
| R1/1900                | W4/1900 | RESTAURANT | 21.26    | 20.50    | 0.76  | 3.57  |
| R1/1900                | W5/1900 | RESTAURANT | 22.94    | 22.38    | 0.56  | 2.44  |
| R2/1900                | W6/1900 | HALL       | 23.92    | 23.23    | 0.69  | 2.88  |
| R1/1901                | W1/1901 |            | 27.27    | 27.36    | -0.09 | -0.33 |
| R1/1901                | W2/1901 |            | 27.35    | 27.11    | 0.24  | 0.88  |
| R1/1902                | W1/1902 |            | 30.19    | 30.72    | -0.53 | -1.76 |
| R1/1902                | W2/1902 |            | 30.15    | 30.45    | -0.30 | -1.00 |
| R1/1903                | W1/1903 |            | 32.59    | 33.41    | -0.82 | -2.52 |
| R1/1903                | W2/1903 |            | 32.44    | 33.13    | -0.69 | -2.13 |
| R1/1904                | W1/1904 |            | 33.81    | 34.68    | -0.87 | -2.57 |

| Vertical Sky Component |         |            |          |          |       |       |
|------------------------|---------|------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| <b>7 LEIGH STREET</b>  |         |            |          |          |       |       |
| R1/2000                | W1/2000 | RESTAURANT | 22.33    | 21.37    | 0.96  | 4.30  |
| R1/2000                | W2/2000 | RESTAURANT | 23.74    | 22.87    | 0.87  | 3.66  |
| R1/2000                | W3/2000 | RESTAURANT | 23.48    | 23.18    | 0.30  | 1.28  |
| R1/2000                | W4/2000 | RESTAURANT | 24.03    | 22.99    | 1.04  | 4.33  |
| R1/2000                | W5/2000 | RESTAURANT | 20.09    | 18.92    | 1.17  | 5.82  |
| R2/2000                | W6/2000 | HALL       | 23.70    | 22.47    | 1.23  | 5.19  |
| R1/2001                | W1/2001 |            | 27.33    | 26.82    | 0.51  | 1.87  |
| R1/2001                | W2/2001 |            | 26.88    | 26.19    | 0.69  | 2.57  |
| R1/2002                | W1/2002 |            | 30.27    | 30.40    | -0.13 | -0.43 |
| R1/2002                | W2/2002 |            | 29.89    | 29.77    | 0.12  | 0.40  |
| R1/2003                | W1/2003 |            | 32.41    | 33.10    | -0.69 | -2.13 |
| R1/2003                | W2/2003 |            | 32.09    | 32.60    | -0.51 | -1.59 |
| R1/2004                | W1/2004 |            | 33.87    | 34.83    | -0.96 | -2.83 |
| <b>6 LEIGH STREET</b>  |         |            |          |          |       |       |
| R1/2100                | W1/2100 | COMMERCIAL | 22.41    | 20.89    | 1.52  | 6.78  |
| R2/2100                | W2/2100 | HALL       | 10.44    | 9.12     | 1.32  | 12.64 |
| R1/2101                | W1/2101 |            | 25.66    | 24.59    | 1.07  | 4.17  |
| R1/2101                | W2/2101 |            | 24.70    | 23.60    | 1.10  | 4.45  |
| R1/2102                | W1/2102 |            | 28.89    | 28.38    | 0.51  | 1.77  |
| R1/2102                | W2/2102 |            | 28.11    | 27.40    | 0.71  | 2.53  |

| Vertical Sky Component |         |            |          |          |       |       |
|------------------------|---------|------------|----------|----------|-------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss  | %     |
| R1/2103                | W1/2103 |            | 31.38    | 31.46    | -0.08 | -0.25 |
| R1/2103                | W2/2103 |            | 30.78    | 30.68    | 0.10  | 0.32  |
| R1/2104                | W1/2104 |            | 33.19    | 33.75    | -0.56 | -1.69 |
| 5 LEIGH STREET         |         |            |          |          |       |       |
| R1/2199                | W1/2199 |            | 10.13    | 10.00    | 0.13  | 1.28  |
| R2/2199                | W2/2199 |            | 14.46    | 13.03    | 1.43  | 9.89  |
| R1/2200                | W2/2200 | COMMERCIAL | 9.24     | 7.78     | 1.46  | 15.80 |
| R1/2200                | W3/2200 | COMMERCIAL | 14.04    | 13.62    | 0.42  | 2.99  |
| R1/2200                | W4/2200 | COMMERCIAL | 19.68    | 18.07    | 1.61  | 8.18  |
| R1/2200                | W5/2200 | COMMERCIAL | 15.44    | 14.40    | 1.04  | 6.74  |
| R2/2200                | W6/2200 | HALL       | 15.88    | 14.36    | 1.52  | 9.57  |
| R1/2201                | W1/2201 | LIVINGROOM | 23.52    | 22.28    | 1.24  | 5.27  |
| R1/2201                | W2/2201 | LIVINGROOM | 22.90    | 21.54    | 1.36  | 5.94  |
| R1/2202                | W1/2202 | LKD        | 27.04    | 26.29    | 0.75  | 2.77  |
| R1/2202                | W2/2202 | LKD        | 26.43    | 25.55    | 0.88  | 3.33  |
| R1/2203                | W1/2203 | LKD        | 29.80    | 29.63    | 0.17  | 0.57  |
| R1/2203                | W2/2203 | LKD        | 29.25    | 28.96    | 0.29  | 0.99  |
| 4 LEIGH STREET         |         |            |          |          |       |       |
| R1/2300                | W1/2300 | COMMERCIAL | 18.68    | 17.06    | 1.62  | 8.67  |
| R1/2300                | W2/2300 | COMMERCIAL | 18.32    | 16.59    | 1.73  | 9.44  |
| R1/2300                | W3/2300 | COMMERCIAL | 18.91    | 17.38    | 1.53  | 8.09  |
| R1/2300                | W4/2300 | COMMERCIAL | 18.52    | 16.77    | 1.75  | 9.45  |

| Vertical Sky Component |         |            |          |          |      |       |
|------------------------|---------|------------|----------|----------|------|-------|
| Room                   | Window  | Room Use   | Existing | Proposed | Loss | %     |
| R2/2300                | W5/2300 | HALL       | 17.82    | 16.08    | 1.74 | 9.76  |
| R1/2301                | W1/2301 |            | 22.24    | 20.73    | 1.51 | 6.79  |
| R1/2301                | W2/2301 |            | 21.96    | 20.39    | 1.57 | 7.15  |
| R1/2302                | W1/2302 |            | 25.79    | 24.71    | 1.08 | 4.19  |
| R1/2302                | W2/2302 |            | 25.45    | 24.32    | 1.13 | 4.44  |
| R1/2303                | W1/2303 |            | 28.69    | 28.16    | 0.53 | 1.85  |
| R1/2303                | W2/2303 |            | 28.41    | 27.85    | 0.56 | 1.97  |
| 3 LEIGH STREET         |         |            |          |          |      |       |
| R1/2399                | W1/2399 | COMMERCIAL | 16.25    | 14.48    | 1.77 | 10.89 |
| R1/2400                | W1/2400 | GALLERY    | 10.34    | 8.69     | 1.65 | 15.96 |
| R1/2400                | W2/2400 | GALLERY    | 9.33     | 7.69     | 1.64 | 17.58 |
| R1/2400                | W3/2400 | GALLERY    | 11.25    | 10.31    | 0.94 | 8.36  |
| R1/2400                | W4/2400 | GALLERY    | 18.92    | 17.11    | 1.81 | 9.57  |
| R1/2400                | W5/2400 | GALLERY    | 0.00     | 0.00     | 0.00 | 0.00  |
| R1/2400                | W7/2400 | GALLERY    | 0.98     | 0.89     | 0.09 | 9.18  |
| R2/2400                | W6/2400 | HALL       | 9.66     | 7.96     | 1.70 | 17.60 |
| R1/2401                | W1/2401 | BEDSIT     | 22.26    | 20.57    | 1.69 | 7.59  |
| R1/2401                | W2/2401 | BEDSIT     | 22.55    | 20.83    | 1.72 | 7.63  |
| R1/2402                | W1/2402 | LIVINGROOM | 25.76    | 24.46    | 1.30 | 5.05  |
| R1/2402                | W2/2402 | LIVINGROOM | 25.92    | 24.59    | 1.33 | 5.13  |
| R1/2403                | W1/2403 | BEDSIT     | 28.64    | 27.88    | 0.76 | 2.65  |
| R1/2403                | W2/2403 | BEDSIT     | 28.73    | 27.93    | 0.80 | 2.78  |
| 2 LEIGH STREET         |         |            |          |          |      |       |



| Vertical Sky Component |         |               |          |          |      |      |
|------------------------|---------|---------------|----------|----------|------|------|
| Room                   | Window  | Room Use      | Existing | Proposed | Loss | %    |
| R1/2499                | W1/2499 | BEDROOM       | 17.40    | 15.73    | 1.67 | 9.60 |
| R1/2500                | W1/2500 | LIVINGROOM    | 20.55    | 18.82    | 1.73 | 8.42 |
| R1/2500                | W2/2500 | LIVINGROOM    | 21.18    | 19.56    | 1.62 | 7.65 |
| R2/2500                | W4/2500 | HALL          | 22.75    | 21.23    | 1.52 | 6.68 |
| R1/2501                | W1/2501 | BEDSIT        | 23.34    | 21.69    | 1.65 | 7.07 |
| R1/2501                | W2/2501 | BEDSIT        | 24.28    | 22.55    | 1.73 | 7.13 |
| R1/2502                | W1/2502 | BEDSIT        | 26.52    | 25.24    | 1.28 | 4.83 |
| R1/2502                | W2/2502 | BEDSIT        | 27.25    | 26.09    | 1.16 | 4.26 |
| R1/2503                | W1/2503 | BEDSIT        | 29.19    | 28.41    | 0.78 | 2.67 |
| R1/2503                | W2/2503 | BEDSIT        | 29.76    | 28.98    | 0.78 | 2.62 |
| 1 LEIGH STREET         |         |               |          |          |      |      |
| R1/2599                | W1/2599 | DINING        | 21.63    | 20.33    | 1.30 | 6.01 |
| R1/2599                | W2/2599 | DINING        | 25.08    | 24.49    | 0.59 | 2.35 |
| R1/2599                | W3/2599 | DINING        | 25.46    | 25.27    | 0.19 | 0.75 |
| R2/2599                | W5/2599 | FOOD PREP     | 18.83    | 18.10    | 0.73 | 3.88 |
| R2/2599                | W6/2599 | FOOD PREP     | 16.04    | 15.12    | 0.92 | 5.74 |
| R1/2600                | W1/2600 | BEDROOM       | 24.06    | 22.71    | 1.35 | 5.61 |
| R2/2600                | W2/2600 | BEDROOM       | 27.55    | 26.82    | 0.73 | 2.65 |
| R2/2600                | W3/2600 | BEDROOM       | 28.45    | 28.23    | 0.22 | 0.77 |
| R1/2601                | W1/2601 | BEDROOM       | 26.23    | 24.88    | 1.35 | 5.15 |
| R2/2601                | W2/2601 | BEDROOM - WII | 29.78    | 29.17    | 0.61 | 2.05 |

| Vertical Sky Component           |         |               |          |          |      |      |
|----------------------------------|---------|---------------|----------|----------|------|------|
| Room                             | Window  | Room Use      | Existing | Proposed | Loss | %    |
| R2/2601                          | W3/2601 | BEDROOM - WII | 31.21    | 31.05    | 0.16 | 0.51 |
| R2/2601                          | W4/2601 | BEDROOM - WII | 30.71    | 30.71    | 0.00 | 0.00 |
| R1/2602                          | W1/2602 | BEDROOM       | 28.95    | 27.91    | 1.04 | 3.59 |
| R2/2602                          | W2/2602 | BEDROOM - WII | 32.49    | 32.11    | 0.38 | 1.17 |
| R2/2602                          | W3/2602 | BEDROOM - WII | 34.48    | 34.38    | 0.10 | 0.29 |
| R2/2602                          | W4/2602 | BEDROOM - WII | 34.89    | 34.89    | 0.00 | 0.00 |
| R1/2603                          | W1/2603 | BEDROOM       | 31.14    | 30.57    | 0.57 | 1.83 |
| R2/2603                          | W2/2603 | BEDROOM - WII | 34.62    | 34.48    | 0.14 | 0.40 |
| R2/2603                          | W3/2603 | BEDROOM - WII | 36.78    | 36.74    | 0.04 | 0.11 |
| R2/2603                          | W4/2603 | BEDROOM - WII | 37.48    | 37.48    | 0.00 | 0.00 |
| 61-63 CARTWRIGHT GARDENS (HOTEL) |         |               |          |          |      |      |
| R1/2699                          | W1/2699 |               | 20.76    | 20.65    | 0.11 | 0.53 |
| R2/2699                          | W2/2699 |               | 24.18    | 23.50    | 0.68 | 2.81 |
| R3/2699                          | W3/2699 |               | 25.05    | 24.37    | 0.68 | 2.71 |
| R1/2700                          | W1/2700 |               | 13.84    | 13.49    | 0.35 | 2.53 |
| R1/2700                          | W2/2700 |               | 18.24    | 17.74    | 0.50 | 2.74 |
| R2/2700                          | W3/2700 |               | 23.79    | 23.22    | 0.57 | 2.40 |
| R2/2700                          | W4/2700 |               | 28.67    | 27.86    | 0.81 | 2.83 |
| R3/2700                          | W5/2700 |               | 28.75    | 28.06    | 0.69 | 2.40 |
| R3/2701                          | W3/2701 |               | 31.59    | 30.99    | 0.60 | 1.90 |
| R1/2702                          | W1/2702 |               | 31.52    | 31.25    | 0.27 | 0.86 |

| Vertical Sky Component |         |          |          |          |       |       |
|------------------------|---------|----------|----------|----------|-------|-------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R2/2702                | W2/2702 |          | 33.38    | 32.82    | 0.56  | 1.68  |
| R3/2702                | W3/2702 |          | 33.44    | 33.01    | 0.43  | 1.29  |
| R1/2703                | W1/2703 |          | 34.81    | 34.74    | 0.07  | 0.20  |
| R2/2703                | W2/2703 |          | 34.86    | 34.54    | 0.32  | 0.92  |
| R3/2703                | W3/2703 |          | 34.90    | 34.66    | 0.24  | 0.69  |
| R1/2799                | W1/2799 |          | 24.65    | 24.13    | 0.52  | 2.11  |
| R1/2799                | W2/2799 |          | 21.60    | 21.00    | 0.60  | 2.78  |
| R2/2799                | W3/2799 |          | 11.68    | 11.71    | -0.03 | -0.26 |
| R2/2799                | W4/2799 |          | 11.35    | 11.18    | 0.17  | 1.50  |
| R1/2800                | W1/2800 |          | 29.01    | 28.32    | 0.69  | 2.38  |
| R1/2800                | W2/2800 |          | 28.90    | 28.26    | 0.64  | 2.21  |
| R2/2800                | W3/2800 | HALL     | 3.46     | 3.21     | 0.25  | 7.23  |
| R2/2800                | W4/2800 | HALL     | 4.14     | 3.49     | 0.65  | 15.70 |
| R2/2800                | W5/2800 | HALL     | 0.00     | 0.00     | 0.00  | 0.00  |
| R2/2800                | W6/2800 | HALL     | 0.70     | 0.32     | 0.38  | 54.29 |
| R1/2801                | W1/2801 |          | 31.78    | 31.22    | 0.56  | 1.76  |
| R1/2801                | W2/2801 |          | 31.90    | 31.37    | 0.53  | 1.66  |
| R2/2801                | W3/2801 |          | 32.03    | 31.50    | 0.53  | 1.65  |
| R1/2802                | W1/2802 |          | 33.57    | 33.18    | 0.39  | 1.16  |
| R1/2802                | W2/2802 |          | 33.64    | 33.28    | 0.36  | 1.07  |
| R2/2802                | W3/2802 |          | 33.76    | 33.37    | 0.39  | 1.16  |

| Vertical Sky Component           |         |          |          |          |      |      |
|----------------------------------|---------|----------|----------|----------|------|------|
| Room                             | Window  | Room Use | Existing | Proposed | Loss | %    |
| R1/2803                          | W1/2803 |          | 35.00    | 34.76    | 0.24 | 0.69 |
| R1/2803                          | W2/2803 |          | 35.04    | 34.82    | 0.22 | 0.63 |
| R2/2803                          | W3/2803 |          | 35.14    | 34.88    | 0.26 | 0.74 |
| R1/2899                          | W1/2899 |          | 23.48    | 22.87    | 0.61 | 2.60 |
| R2/2899                          | W2/2899 |          | 6.76     | 6.76     | 0.00 | 0.00 |
| R1/2900                          | W1/2900 |          | 28.81    | 28.18    | 0.63 | 2.19 |
| R1/2900                          | W2/2900 |          | 28.99    | 28.37    | 0.62 | 2.14 |
| R2/2900                          | W3/2900 |          | 29.21    | 28.60    | 0.61 | 2.09 |
| R1/2901                          | W1/2901 |          | 31.91    | 31.40    | 0.51 | 1.60 |
| R1/2901                          | W2/2901 |          | 32.18    | 31.70    | 0.48 | 1.49 |
| R2/2901                          | W3/2901 |          | 32.24    | 31.76    | 0.48 | 1.49 |
| R1/2902                          | W1/2902 |          | 33.60    | 33.23    | 0.37 | 1.10 |
| R1/2902                          | W2/2902 |          | 33.89    | 33.54    | 0.35 | 1.03 |
| R2/2902                          | W3/2902 |          | 33.95    | 33.59    | 0.36 | 1.06 |
| R1/2903                          | W1/2903 |          | 34.97    | 34.72    | 0.25 | 0.71 |
| R1/2903                          | W2/2903 |          | 35.26    | 35.02    | 0.24 | 0.68 |
| R2/2903                          | W3/2903 |          | 35.30    | 35.04    | 0.26 | 0.74 |
| 58-60 CARTWRIGHT GARDENS (HOTEL) |         |          |          |          |      |      |
| R1/2999                          | W1/2999 |          | 23.58    | 22.92    | 0.66 | 2.80 |

| Vertical Sky Component                              |         |          |          |          |       |       |
|-----------------------------------------------------|---------|----------|----------|----------|-------|-------|
| Room                                                | Window  | Room Use | Existing | Proposed | Loss  | %     |
| R2/2999                                             | W2/2999 |          | 7.36     | 7.39     | -0.03 | -0.41 |
| R1/3000                                             | W1/3000 |          | 29.42    | 28.82    | 0.60  | 2.04  |
| R1/3000                                             | W2/3000 |          | 29.55    | 28.90    | 0.65  | 2.20  |
| R2/3000                                             | W3/3000 | HALL     | 4.60     | 4.32     | 0.28  | 6.09  |
| R2/3000                                             | W4/3000 | HALL     | 6.19     | 5.59     | 0.60  | 9.69  |
| R2/3000                                             | W5/3000 | HALL     | 2.93     | 2.39     | 0.54  | 18.43 |
| R2/3000                                             | W6/3000 | HALL     | 0.00     | 0.00     | 0.00  | 0.00  |
| R2/3000                                             | W7/3000 | HALL     | 2.80     | 2.32     | 0.48  | 17.14 |
| R1/3001                                             | W1/3001 |          | 32.35    | 31.88    | 0.47  | 1.45  |
| R1/3001                                             | W2/3001 |          | 32.46    | 31.92    | 0.54  | 1.66  |
| R2/3001                                             | W3/3001 |          | 32.24    | 31.71    | 0.53  | 1.64  |
| R1/3002                                             | W1/3002 |          | 34.01    | 33.67    | 0.34  | 1.00  |
| R1/3002                                             | W2/3002 |          | 34.07    | 33.68    | 0.39  | 1.14  |
| R2/3002                                             | W3/3002 |          | 33.82    | 33.40    | 0.42  | 1.24  |
| R1/3003                                             | W1/3003 |          | 35.34    | 35.08    | 0.26  | 0.74  |
| R1/3003                                             | W2/3003 |          | 35.43    | 35.08    | 0.35  | 0.99  |
| R2/3003                                             | W3/3003 |          | 35.12    | 34.78    | 0.34  | 0.97  |
| BENTHAM HALL (UNIVERSITY), 31-43 CARTWRIGHT GARDENS |         |          |          |          |       |       |
| R1/3099                                             | W1/3099 |          | 22.52    | 20.73    | 1.79  | 7.95  |
| R1/3100                                             | W1/3100 | HALL     | 27.52    | 25.68    | 1.84  | 6.69  |
| R2/3100                                             | W2/3100 |          | 29.06    | 27.24    | 1.82  | 6.26  |

| Vertical Sky Component |         |          |          |          |      |      |
|------------------------|---------|----------|----------|----------|------|------|
| Room                   | Window  | Room Use | Existing | Proposed | Loss | %    |
| R1/3101                | W1/3101 |          | 32.08    | 30.17    | 1.91 | 5.95 |
| R2/3101                | W2/3101 |          | 31.69    | 29.91    | 1.78 | 5.62 |
| R1/3102                | W1/3102 |          | 33.53    | 31.73    | 1.80 | 5.37 |
| R2/3102                | W2/3102 |          | 33.12    | 31.48    | 1.64 | 4.95 |
| R1/3103                | W1/3103 |          | 34.67    | 33.03    | 1.64 | 4.73 |
| R2/3103                | W2/3103 |          | 34.29    | 32.79    | 1.50 | 4.37 |
| 30 CARTWRIGHT GARDENS  |         |          |          |          |      |      |
| R1/3199                | W1/3199 |          | 22.95    | 21.25    | 1.70 | 7.41 |
| R1/3200                | W1/3200 | HALL     | 27.05    | 25.21    | 1.84 | 6.80 |
| R1/3200                | W2/3200 | HALL     | 27.23    | 25.49    | 1.74 | 6.39 |
| R1/3200                | W3/3200 | HALL     | 26.86    | 25.11    | 1.75 | 6.52 |
| R2/3200                | W4/3200 |          | 28.47    | 26.75    | 1.72 | 6.04 |
| R1/3201                | W1/3201 |          | 31.42    | 29.55    | 1.87 | 5.95 |
| R2/3201                | W2/3201 |          | 31.12    | 29.43    | 1.69 | 5.43 |
| R1/3202                | W1/3202 |          | 32.86    | 31.11    | 1.75 | 5.33 |
| R2/3202                | W2/3202 |          | 32.57    | 31.00    | 1.57 | 4.82 |
| R1/3203                | W1/3203 |          | 34.02    | 32.42    | 1.60 | 4.70 |
| R2/3203                | W2/3203 |          | 33.74    | 32.32    | 1.42 | 4.21 |

| Vertical Sky Component       |         |          |          |          |      |      |
|------------------------------|---------|----------|----------|----------|------|------|
| Room                         | Window  | Room Use | Existing | Proposed | Loss | %    |
| <b>29 CARTWRIGHT GARDENS</b> |         |          |          |          |      |      |
| R1/3299                      | W1/3299 |          | 0.64     | 0.64     | 0.00 | 0.00 |
| R2/3299                      | W2/3299 |          | 18.24    | 16.76    | 1.48 | 8.11 |
| R1/3300                      | W1/3300 | HALL     | 26.24    | 24.59    | 1.65 | 6.29 |
| R1/3300                      | W2/3300 | HALL     | 26.43    | 24.71    | 1.72 | 6.51 |
| R1/3300                      | W3/3300 | HALL     | 25.90    | 24.24    | 1.66 | 6.41 |
| R2/3300                      | W4/3300 |          | 27.63    | 26.06    | 1.57 | 5.68 |
| R1/3301                      | W1/3301 |          | 30.63    | 29.01    | 1.62 | 5.29 |
| R2/3301                      | W2/3301 |          | 30.14    | 28.60    | 1.54 | 5.11 |
| R1/3302                      | W1/3302 |          | 32.06    | 30.55    | 1.51 | 4.71 |
| R2/3302                      | W2/3302 |          | 31.55    | 30.12    | 1.43 | 4.53 |
| R1/3303                      | W1/3303 |          | 33.23    | 31.87    | 1.36 | 4.09 |
| R2/3303                      | W2/3303 |          | 32.66    | 31.39    | 1.27 | 3.89 |
| <b>28 CARTWRIGHT GARDENS</b> |         |          |          |          |      |      |
| R1/3399                      | W1/3399 |          | 17.21    | 15.77    | 1.44 | 8.37 |
| R1/3399                      | W2/3399 |          | 23.73    | 22.29    | 1.44 | 6.07 |
| R1/3400                      | W1/3400 | HALL     | 28.92    | 27.27    | 1.65 | 5.71 |
| R2/3400                      | W2/3400 |          | 28.16    | 26.47    | 1.69 | 6.00 |
| R2/3400                      | W3/3400 |          | 27.75    | 26.12    | 1.63 | 5.87 |

| Vertical Sky Component |         |              |          |          |      |      |
|------------------------|---------|--------------|----------|----------|------|------|
| Room                   | Window  | Room Use     | Existing | Proposed | Loss | %    |
| R1/3401                | W1/3401 |              | 30.01    | 28.38    | 1.63 | 5.43 |
| R2/3401                | W2/3401 |              | 29.62    | 27.93    | 1.69 | 5.71 |
| R2/3401                | W3/3401 |              | 29.21    | 27.57    | 1.64 | 5.61 |
| R1/3402                | W1/3402 |              | 31.42    | 29.79    | 1.63 | 5.19 |
| R2/3402                | W2/3402 |              | 31.02    | 29.45    | 1.57 | 5.06 |
| R2/3402                | W3/3402 |              | 30.62    | 29.09    | 1.53 | 5.00 |
| R1/3403                | W1/3403 |              | 32.56    | 31.09    | 1.47 | 4.51 |
| R2/3403                | W2/3403 |              | 32.17    | 30.75    | 1.42 | 4.41 |
| R2/3403                | W3/3403 |              | 31.77    | 30.40    | 1.37 | 4.31 |
| 27 CARTWRIGHT GARDENS  |         |              |          |          |      |      |
| R1/3499                | W1/3499 |              | 24.26    | 23.05    | 1.21 | 4.99 |
| R2/3499                | W2/3499 | WINDOWS BLOC | 25.03    | 23.77    | 1.26 | 5.03 |
| R1/3500                | W1/3500 |              | 27.20    | 25.78    | 1.42 | 5.22 |
| R2/3500                | W2/3500 | WINDOWS BLOC | 26.69    | 25.38    | 1.31 | 4.91 |
| R1/3501                | W1/3501 |              | 28.45    | 27.20    | 1.25 | 4.39 |
| R2/3501                | W2/3501 | WINDOWS BLOC | 28.14    | 26.84    | 1.30 | 4.62 |
| R2/3501                | W3/3501 | WINDOWS BLOC | 21.80    | 21.25    | 0.55 | 2.52 |
| R2/3501                | W4/3501 | WINDOWS BLOC | 21.16    | 20.79    | 0.37 | 1.75 |
| R1/3502                | W1/3502 |              | 29.85    | 28.72    | 1.13 | 3.79 |
| R2/3502                | W2/3502 | WINDOWS BLOC | 29.57    | 28.36    | 1.21 | 4.09 |



| Vertical Sky Component |         |             |          |          |      |      |
|------------------------|---------|-------------|----------|----------|------|------|
| Room                   | Window  | Room Use    | Existing | Proposed | Loss | %    |
| R2/3502                | W3/3502 | WINDOWS BLO | 25.20    | 24.68    | 0.52 | 2.06 |
| R2/3502                | W4/3502 | WINDOWS BLO | 24.89    | 24.53    | 0.36 | 1.45 |
| R1/3503                | W1/3503 |             | 31.02    | 30.02    | 1.00 | 3.22 |
| R2/3503                | W2/3503 | WINDOWS BLO | 30.74    | 29.66    | 1.08 | 3.51 |
| R2/3503                | W3/3503 | WINDOWS BLO | 28.28    | 27.80    | 0.48 | 1.70 |
| R2/3503                | W4/3503 | WINDOWS BLO | 28.24    | 27.92    | 0.32 | 1.13 |
| 160-181 THANET STREET  |         |             |          |          |      |      |
| R1/3605                | W1/3605 |             | 2.90     | 2.80     | 0.10 | 3.45 |
| R2/3605                | W2/3605 |             | 27.25    | 27.21    | 0.04 | 0.15 |
| R2/3605                | W3/3605 |             | 28.21    | 28.07    | 0.14 | 0.50 |
| R3/3605                | W4/3605 |             | 28.46    | 28.39    | 0.07 | 0.25 |
| 136-159 THANET STREET  |         |             |          |          |      |      |
| R1/3705                | W1/3705 | TEST        | 29.21    | 29.17    | 0.04 | 0.14 |
| R1/3705                | W2/3705 | TEST        | 29.21    | 29.21    | 0.00 | 0.00 |
| R2/3705                | W3/3705 |             | 7.26     | 7.24     | 0.02 | 0.28 |
| R3/3705                | W4/3705 |             | 3.18     | 3.18     | 0.00 | 0.00 |
| R3/3705                | W5/3705 |             | 1.71     | 1.71     | 0.00 | 0.00 |
| R4/3705                | W6/3705 |             | 29.32    | 29.30    | 0.02 | 0.07 |
| R5/3705                | W7/3705 |             | 30.19    | 29.96    | 0.23 | 0.76 |
| R5/3705                | W8/3705 |             | 30.01    | 29.89    | 0.12 | 0.40 |
| R5/3705                | W9/3705 |             | 30.85    | 30.48    | 0.37 | 1.20 |

| Vertical Sky Component |          |          |          |          |      |      |
|------------------------|----------|----------|----------|----------|------|------|
| Room                   | Window   | Room Use | Existing | Proposed | Loss | %    |
| R6/3705                | W10/3705 |          | 30.84    | 30.38    | 0.46 | 1.49 |
| 112-135 THANET STREET  |          |          |          |          |      |      |
| R1/3805                | W1/3805  |          | 30.84    | 30.42    | 0.42 | 1.36 |
| R1/3805                | W2/3805  |          | 30.70    | 30.33    | 0.37 | 1.21 |
| R2/3805                | W3/3805  |          | 10.35    | 10.15    | 0.20 | 1.93 |
| R3/3805                | W4/3805  |          | 30.59    | 30.51    | 0.08 | 0.26 |
| R4/3805                | W5/3805  |          | 8.87     | 8.76     | 0.11 | 1.24 |
| R4/3805                | W6/3805  |          | 9.43     | 9.28     | 0.15 | 1.59 |
| R5/3805                | W7/3805  |          | 12.87    | 12.63    | 0.24 | 1.86 |
| R6/3805                | W8/3805  |          | 31.16    | 30.75    | 0.41 | 1.32 |
| R6/3805                | W9/3805  |          | 31.07    | 30.75    | 0.32 | 1.03 |
| 91-111 THANET STREET   |          |          |          |          |      |      |
| R1/3905                | W1/3905  |          | 27.84    | 27.38    | 0.46 | 1.65 |
| R1/3905                | W2/3905  |          | 18.82    | 18.43    | 0.39 | 2.07 |
| R2/3905                | W3/3905  |          | 23.30    | 23.19    | 0.11 | 0.47 |
| R3/3905                | W4/3905  |          | 31.16    | 31.12    | 0.04 | 0.13 |
| R4/3905                | W5/3905  |          | 32.14    | 32.09    | 0.05 | 0.16 |
| R4/3905                | W6/3905  |          | 32.43    | 32.38    | 0.05 | 0.15 |
| R4/3905                | W7/3905  |          | 32.61    | 32.50    | 0.11 | 0.34 |
| R5/3905                | W8/3905  |          | 32.62    | 32.28    | 0.34 | 1.04 |

| Vertical Sky Component               |          |          |          |          |       |       |
|--------------------------------------|----------|----------|----------|----------|-------|-------|
| Room                                 | Window   | Room Use | Existing | Proposed | Loss  | %     |
| 1-30 RASHLEIGH HOUSE, THANET STREET  |          |          |          |          |       |       |
| R1/4104                              | W1/4104  |          | 34.66    | 33.96    | 0.70  | 2.02  |
| R1/4104                              | W4/4104  |          | 34.61    | 33.89    | 0.72  | 2.08  |
| R2/4104                              | W5/4104  |          | 34.65    | 33.92    | 0.73  | 2.11  |
| R3/4104                              | W6/4104  |          | 34.60    | 33.92    | 0.68  | 1.97  |
| R3/4104                              | W7/4104  |          | 34.52    | 33.90    | 0.62  | 1.80  |
| R4/4104                              | W8/4104  |          | 7.70     | 7.33     | 0.37  | 4.81  |
| R5/4104                              | W9/4104  |          | 33.82    | 33.31    | 0.51  | 1.51  |
| R5/4104                              | W10/4104 |          | 4.59     | 4.58     | 0.01  | 0.22  |
| R5/4104                              | W11/4104 |          | 3.95     | 3.43     | 0.52  | 13.16 |
| R6/4104                              | W12/4104 |          | 6.09     | 5.69     | 0.40  | 6.57  |
| R7/4104                              | W13/4104 |          | 24.68    | 24.95    | -0.27 | -1.09 |
| R1/4114                              | W1/4114  |          | 35.16    | 34.77    | 0.39  | 1.11  |
| 31-63 RASHLEIGH HOUSE, THANET STREET |          |          |          |          |       |       |
| R1/4204                              | W1/4204  |          | 31.67    | 31.63    | 0.04  | 0.13  |
| R1/4204                              | W2/4204  |          | 33.62    | 33.51    | 0.11  | 0.33  |
| R2/4204                              | W3/4204  |          | 33.82    | 33.72    | 0.10  | 0.30  |
| R2/4204                              | W4/4204  |          | 33.56    | 33.46    | 0.10  | 0.30  |
| R3/4204                              | W5/4204  |          | 5.33     | 5.32     | 0.01  | 0.19  |
| R4/4204                              | W6/4204  |          | 7.39     | 7.50     | -0.11 | -1.49 |
| R4/4204                              | W7/4204  |          | 32.90    | 32.92    | -0.02 | -0.06 |

| Vertical Sky Component |          |          |          |          |       |       |
|------------------------|----------|----------|----------|----------|-------|-------|
| Room                   | Window   | Room Use | Existing | Proposed | Loss  | %     |
| R5/4204                | W8/4204  |          | 8.31     | 8.43     | -0.12 | -1.44 |
| R6/4204                | W9/4204  |          | 31.84    | 31.73    | 0.11  | 0.35  |
| R6/4204                | W10/4204 |          | 5.37     | 5.46     | -0.09 | -1.68 |
| R1/4214                | W1/4214  |          | 35.70    | 35.66    | 0.04  | 0.11  |



| Room/<br>Floor                  | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|---------------------------------|----------|---------------|---------------|--------------|---------------|-------|
| HAMILTON HOUSE, HASTINGS STREET |          |               |               |              |               |       |
| R1/99                           | VENT     | 248.0         | 128.8         | 127.6        | 1.3           | 1.0   |
| R2/99                           | ASSUMED  | 285.0         | 68.5          | 67.1         | 1.4           | 2.0   |
| R3/99                           | VENT     | 286.0         | 112.1         | 111.6        | 0.6           | 0.5   |
| R4/99                           |          | 268.0         | 37.7          | 37.1         | 0.6           | 1.6   |
| R5/99                           |          | 218.3         | 44.5          | 44.5         | 0.0           | 0.0   |
| R6/99                           |          | 303.1         | 201.4         | 199.9        | 1.5           | 0.7   |
| R7/99                           |          | 300.6         | 225.3         | 223.0        | 2.3           | 1.0   |
| R8/99                           |          | 399.9         | 324.7         | 322.9        | 1.8           | 0.6   |
| R9/99                           |          | 334.6         | 298.1         | 287.2        | 10.9          | 3.7   |
| R10/99                          |          | 334.6         | 265.0         | 238.2        | 26.8          | 10.1  |
| R11/99                          |          | 240.4         | 89.0          | 62.7         | 26.3          | 29.6  |
| R1/100                          |          | 247.9         | 246.4         | 246.4        | 0.0           | 0.0   |
| R2/100                          |          | 337.9         | 300.6         | 299.1        | 1.5           | 0.5   |
| R3/100                          |          | 340.1         | 292.0         | 289.8        | 2.2           | 0.8   |
| R4/100                          |          | 329.7         | 279.3         | 277.4        | 2.0           | 0.7   |
| R5/100                          |          | 284.2         | 221.0         | 217.1        | 3.9           | 1.8   |
| R6/100                          |          | 303.1         | 283.9         | 283.0        | 0.9           | 0.3   |
| R7/100                          |          | 300.7         | 275.2         | 274.6        | 0.6           | 0.2   |
| R8/100                          |          | 399.9         | 371.7         | 371.7        | 0.0           | 0.0   |
| R9/100                          |          | 334.8         | 321.6         | 321.6        | 0.0           | 0.0   |
| R10/100                         |          | 334.5         | 284.9         | 284.7        | 0.2           | 0.1   |
| R1/101                          |          | 247.9         | 237.8         | 237.8        | 0.0           | 0.0   |
| R2/101                          |          | 337.9         | 300.1         | 298.1        | 1.9           | 0.6   |
| R3/101                          |          | 340.1         | 291.6         | 289.0        | 2.6           | 0.9   |
| R4/101                          |          | 329.7         | 278.2         | 277.0        | 1.3           | 0.5   |
| R5/101                          |          | 284.2         | 132.2         | 131.3        | 0.9           | 0.7   |
| R6/101                          |          | 610.1         | 579.3         | 578.2        | 1.1           | 0.2   |
| R7/101                          |          | 399.9         | 391.2         | 391.2        | 0.0           | 0.0   |
| R8/101                          |          | 334.8         | 330.4         | 330.4        | 0.0           | 0.0   |
| R9/101                          |          | 334.4         | 307.1         | 306.8        | 0.3           | 0.1   |
| R10/101                         |          | 240.4         | 170.8         | 170.8        | 0.0           | 0.0   |
| R1/102                          |          | 247.9         | 237.8         | 237.8        | 0.0           | 0.0   |
| R2/102                          |          | 337.9         | 299.7         | 298.1        | 1.6           | 0.5   |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R3/102         |          | 340.1         | 291.8         | 289.3        | 2.5           | 0.9   |
| R4/102         |          | 329.7         | 278.2         | 277.0        | 1.3           | 0.5   |
| R5/102         |          | 284.2         | 135.7         | 134.4        | 1.3           | 1.0   |
| R6/102         |          | 610.1         | 575.0         | 574.0        | 1.1           | 0.2   |
| R7/102         |          | 399.9         | 391.6         | 391.6        | 0.0           | 0.0   |
| R8/102         |          | 334.8         | 330.4         | 330.4        | 0.0           | 0.0   |
| R9/102         |          | 334.5         | 330.7         | 330.7        | 0.0           | 0.0   |
| R10/102        |          | 240.4         | 233.5         | 233.5        | 0.0           | 0.0   |
| R1/103         |          | 247.9         | 238.0         | 238.0        | 0.0           | 0.0   |
| R2/103         |          | 337.9         | 296.3         | 294.0        | 2.3           | 0.8   |
| R3/103         |          | 340.1         | 286.0         | 284.9        | 1.1           | 0.4   |
| R4/103         |          | 329.7         | 275.4         | 273.6        | 1.8           | 0.7   |
| R5/103         |          | 284.2         | 132.6         | 131.1        | 1.5           | 1.1   |
| R6/103         |          | 399.9         | 388.0         | 388.0        | 0.0           | 0.0   |
| R7/103         |          | 334.8         | 327.3         | 327.3        | 0.0           | 0.0   |
| R8/103         |          | 334.5         | 328.6         | 328.6        | 0.0           | 0.0   |
| R9/103         |          | 240.4         | 232.9         | 232.9        | 0.0           | 0.0   |
| R1/104         |          | 240.1         | 229.1         | 229.1        | 0.0           | 0.0   |
| R2/104         |          | 325.9         | 300.2         | 297.9        | 2.4           | 0.8   |
| R3/104         |          | 328.3         | 299.2         | 297.4        | 1.8           | 0.6   |
| R4/104         |          | 319.6         | 287.7         | 287.3        | 0.4           | 0.1   |
| R5/104         |          | 274.6         | 186.7         | 185.7        | 1.0           | 0.5   |
| R8/104         |          | 387.4         | 385.3         | 385.3        | 0.0           | 0.0   |
| R9/104         |          | 324.0         | 323.6         | 323.6        | 0.0           | 0.0   |
| R10/104        |          | 323.6         | 323.2         | 323.2        | 0.0           | 0.0   |
| R11/104        |          | 232.2         | 230.0         | 230.0        | 0.0           | 0.0   |
| R1/113         |          | 610.1         | 571.7         | 570.6        | 1.1           | 0.2   |
| R1/114         |          | 289.3         | 252.7         | 252.1        | 0.6           | 0.2   |
| R2/114         |          | 287.6         | 241.2         | 240.5        | 0.7           | 0.3   |

1-27 SINCLAIR HOUSE, SANDWICH STREET

|        |                |       |       |       |     |     |
|--------|----------------|-------|-------|-------|-----|-----|
| R1/200 | CAFE           | 562.5 | 556.8 | 556.2 | 0.5 | 0.1 |
| R2/200 | WINDOW BLOCKED | 207.6 | 164.6 | 161.3 | 3.3 | 2.0 |

CARTWRIGHT GARDENS, LONDON WC1  
PROPOSED TP BENNETT SCHEME 260213  
DAYLIGHT DISTRIBUTION ANALYSIS

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/201         |          | 129.7         | 126.9         | 126.9        | 0.0           | 0.0   |
| R2/201         |          | 103.2         | 101.1         | 100.9        | 0.2           | 0.2   |
| R3/201         |          | 167.7         | 161.4         | 158.2        | 3.3           | 2.0   |
| R4/201         |          | 226.6         | 223.1         | 198.6        | 24.5          | 11.0  |
| R5/201         |          | 145.6         | 132.8         | 100.9        | 31.9          | 24.0  |
| R1/202         |          | 129.7         | 127.8         | 127.8        | 0.0           | 0.0   |
| R2/202         |          | 103.2         | 101.6         | 101.5        | 0.2           | 0.2   |
| R3/202         |          | 167.7         | 161.3         | 159.0        | 2.3           | 1.4   |
| R4/202         |          | 226.6         | 223.1         | 202.0        | 21.1          | 9.5   |
| R5/202         |          | 145.6         | 132.6         | 111.0        | 21.6          | 16.3  |
| R1/203         |          | 129.7         | 128.4         | 128.4        | 0.0           | 0.0   |
| R2/203         |          | 103.2         | 101.7         | 101.6        | 0.0           | 0.0   |
| R3/203         |          | 167.7         | 161.4         | 160.5        | 0.9           | 0.6   |
| R4/203         |          | 226.6         | 223.1         | 205.7        | 17.4          | 7.8   |
| R5/203         |          | 145.6         | 131.9         | 127.3        | 4.6           | 3.5   |
| R1/204         |          | 129.7         | 128.5         | 128.5        | 0.0           | 0.0   |
| R2/204         |          | 103.2         | 102.0         | 102.0        | 0.0           | 0.0   |
| R3/204         |          | 167.7         | 161.4         | 160.9        | 0.5           | 0.3   |
| R4/204         |          | 226.6         | 223.1         | 211.0        | 12.1          | 5.4   |
| R5/204         |          | 145.6         | 132.8         | 131.7        | 1.1           | 0.8   |
| R1/205         |          | 107.0         | 104.4         | 104.2        | 0.2           | 0.2   |
| R2/205         |          | 101.5         | 95.8          | 95.6         | 0.2           | 0.2   |
| R3/205         |          | 174.5         | 136.4         | 135.3        | 1.1           | 0.8   |
| R4/205         |          | 226.0         | 223.0         | 221.6        | 1.4           | 0.6   |
| R5/205         |          | 145.6         | 112.4         | 111.3        | 1.1           | 1.0   |
| R1/210         | HALL     | 226.6         | 180.1         | 171.0        | 9.2           | 5.1   |
| R2/210         |          | 145.6         | 132.2         | 88.7         | 43.5          | 32.9  |

28-51 SINCLAIR HOUSE, SANDWICH STREET

|        |       |       |       |      |      |
|--------|-------|-------|-------|------|------|
| R1/300 | 109.3 | 99.1  | 92.7  | 6.5  | 6.6  |
| R2/300 | 180.8 | 177.6 | 152.0 | 25.6 | 14.4 |
| R3/300 | 120.9 | 108.2 | 67.3  | 40.9 | 37.8 |
| R4/300 | 126.8 | 122.2 | 58.8  | 63.5 | 52.0 |



CARTWRIGHT GARDENS, LONDON WC1  
PROPOSED TP BENNETT SCHEME 260213  
DAYLIGHT DISTRIBUTION ANALYSIS

| Room/<br>Floor | Room Use       | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------------|---------------|---------------|--------------|---------------|-------|
| R5/300         | WINDOW BLOCKED | 180.6         | 175.0         | 72.1         | 102.9         | 58.8  |
| R6/300         |                | 101.1         | 100.0         | 43.9         | 56.1          | 56.1  |
| R1/301         |                | 109.3         | 99.9          | 72.1         | 27.8          | 27.8  |
| R2/301         |                | 180.8         | 177.9         | 135.8        | 42.1          | 23.7  |
| R3/301         |                | 120.9         | 108.8         | 71.6         | 37.2          | 34.2  |
| R4/301         |                | 135.3         | 124.1         | 76.0         | 48.1          | 38.8  |
| R5/301         |                | 150.0         | 144.6         | 79.6         | 65.0          | 45.0  |
| R6/301         |                | 157.5         | 155.3         | 76.7         | 78.6          | 50.6  |
| R7/301         |                | 101.1         | 100.0         | 52.9         | 47.1          | 47.1  |
| R1/302         |                | 109.3         | 99.9          | 82.6         | 17.4          | 17.4  |
| R2/302         |                | 180.8         | 178.0         | 150.9        | 27.1          | 15.2  |
| R3/302         |                | 120.9         | 108.8         | 85.7         | 23.1          | 21.2  |
| R4/302         |                | 135.3         | 124.1         | 91.1         | 33.1          | 26.7  |
| R5/302         |                | 150.0         | 143.5         | 102.0        | 41.4          | 28.9  |
| R6/302         |                | 157.5         | 155.4         | 99.3         | 56.0          | 36.0  |
| R7/302         |                | 101.1         | 100.6         | 65.8         | 34.8          | 34.6  |
| R1/303         |                | 109.3         | 99.9          | 96.0         | 3.9           | 3.9   |
| R2/303         |                | 180.8         | 178.0         | 171.5        | 6.6           | 3.7   |
| R3/303         |                | 120.9         | 108.8         | 102.1        | 6.8           | 6.3   |
| R4/303         |                | 135.3         | 124.3         | 110.3        | 14.1          | 11.3  |
| R5/303         |                | 150.0         | 144.2         | 129.3        | 14.9          | 10.3  |
| R6/303         |                | 157.5         | 155.4         | 129.1        | 26.3          | 16.9  |
| R7/303         |                | 101.1         | 100.6         | 80.4         | 20.2          | 20.1  |
| R1/304         |                | 109.3         | 99.9          | 99.3         | 0.6           | 0.6   |
| R2/304         |                | 180.8         | 178.0         | 177.9        | 0.1           | 0.1   |
| R3/304         |                | 120.9         | 108.8         | 106.8        | 2.0           | 1.8   |
| R4/304         |                | 135.3         | 124.3         | 117.7        | 6.6           | 5.3   |
| R5/304         |                | 150.0         | 145.7         | 140.6        | 5.1           | 3.5   |
| R6/304         |                | 157.5         | 155.4         | 141.3        | 14.0          | 9.0   |
| R7/304         |                | 101.1         | 100.6         | 89.4         | 11.2          | 11.1  |
| R1/305         |                | 109.3         | 90.2          | 89.7         | 0.5           | 0.6   |
| R2/305         |                | 180.8         | 178.0         | 178.0        | 0.0           | 0.0   |
| R3/305         |                | 120.9         | 98.9          | 98.7         | 0.2           | 0.2   |
| R4/305         |                | 135.3         | 124.2         | 123.9        | 0.3           | 0.2   |
| R5/305         |                | 150.0         | 139.0         | 130.3        | 8.6           | 6.2   |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R6/305         | HALL     | 157.5         | 155.4         | 154.5        | 0.8           | 0.5   |
| R7/305         |          | 100.5         | 98.0          | 98.0         | 0.0           | 0.0   |
| R1/310         |          | 135.3         | 92.9          | 43.3         | 49.6          | 53.4  |

52-75 SINCLAIR HOUSE, SANDWICH STREET

|        |                |       |       |       |      |       |
|--------|----------------|-------|-------|-------|------|-------|
| R1/400 | HALL           | 121.9 | 119.3 | 43.8  | 75.5 | 63.3  |
| R2/400 |                | 134.5 | 131.7 | 48.4  | 83.4 | 63.3  |
| R3/400 |                | 147.0 | 120.2 | 49.7  | 70.4 | 58.6  |
| R4/400 |                | 128.1 | 118.3 | 53.9  | 64.3 | 54.4  |
| R5/400 |                | 163.0 | 124.6 | 52.6  | 71.9 | 57.7  |
| R6/400 |                | 127.8 | 88.3  | 47.5  | 40.8 | 46.2  |
| R7/400 |                | 133.9 | 39.0  | 39.6  | -0.6 | -1.5  |
| R1/401 |                | 121.9 | 120.0 | 59.2  | 60.8 | 50.7  |
| R2/401 |                | 134.5 | 132.9 | 64.0  | 68.9 | 51.8  |
| R3/401 |                | 147.0 | 126.2 | 67.3  | 58.9 | 46.7  |
| R4/401 |                | 128.1 | 104.3 | 57.1  | 47.2 | 45.3  |
| R5/401 |                | 163.0 | 126.9 | 71.0  | 55.9 | 44.1  |
| R6/401 |                | 127.8 | 91.2  | 61.9  | 29.3 | 32.1  |
| R7/401 |                | 133.9 | 44.4  | 49.6  | -5.2 | -11.7 |
| R1/402 |                | 121.9 | 120.6 | 76.1  | 44.5 | 36.9  |
| R2/402 |                | 134.5 | 132.6 | 79.2  | 53.4 | 40.3  |
| R3/402 |                | 147.0 | 131.3 | 84.5  | 46.8 | 35.6  |
| R4/402 |                | 128.1 | 106.9 | 70.0  | 36.9 | 34.5  |
| R5/402 |                | 163.0 | 131.2 | 92.1  | 39.2 | 29.9  |
| R6/402 |                | 127.8 | 94.8  | 79.5  | 15.2 | 16.0  |
| R7/402 |                | 133.9 | 51.8  | 59.2  | -7.4 | -14.3 |
| R1/403 | WINDOW BLOCKED | 121.9 | 120.7 | 94.9  | 25.9 | 21.5  |
| R2/403 |                | 134.5 | 132.6 | 101.9 | 30.7 | 23.2  |
| R3/403 |                | 147.0 | 135.0 | 103.1 | 31.8 | 23.6  |
| R4/403 |                | 128.1 | 111.6 | 83.5  | 28.1 | 25.2  |
| R5/403 |                | 163.0 | 135.5 | 111.2 | 24.3 | 17.9  |
| R6/403 |                | 127.8 | 97.2  | 84.0  | 13.2 | 13.6  |
| R7/403 |                | 133.9 | 63.6  | 71.2  | -7.6 | -11.9 |

| Room/<br>Floor | Room Use       | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------------|---------------|---------------|--------------|---------------|-------|
| R1/404         |                | 121.9         | 120.7         | 107.0        | 13.8          | 11.4  |
| R2/404         |                | 134.5         | 130.9         | 115.1        | 15.8          | 12.1  |
| R3/404         |                | 147.0         | 141.5         | 119.3        | 22.2          | 15.7  |
| R4/404         |                | 128.1         | 118.4         | 100.5        | 17.8          | 15.0  |
| R5/404         |                | 163.0         | 144.0         | 128.8        | 15.2          | 10.6  |
| R6/404         |                | 127.8         | 108.0         | 100.7        | 7.2           | 6.7   |
| R7/404         |                | 133.9         | 91.6          | 94.0         | -2.4          | -2.6  |
| R1/405         |                | 122.0         | 120.0         | 120.0        | 0.0           | 0.0   |
| R2/405         |                | 134.5         | 130.4         | 130.4        | 0.0           | 0.0   |
| R3/405         |                | 147.0         | 142.1         | 142.1        | 0.0           | 0.0   |
| R4/405         |                | 128.1         | 125.6         | 125.1        | 0.5           | 0.4   |
| R5/405         | WINDOW BLOCKED | 163.0         | 156.4         | 156.0        | 0.4           | 0.3   |
| R6/405         |                | 127.8         | 125.8         | 124.9        | 0.9           | 0.7   |
| R7/405         |                | 133.7         | 129.7         | 129.7        | 0.0           | 0.0   |

76-93 SINCLAIR HOUSE, SANDWICH STREET

|        |      |       |       |       |       |       |
|--------|------|-------|-------|-------|-------|-------|
| R1/500 |      | 160.6 | 60.0  | 47.8  | 12.2  | 20.3  |
| R2/500 | HALL | 230.7 | 78.1  | 78.0  | 0.2   | 0.3   |
| R3/500 |      | 181.1 | 33.3  | 37.6  | -4.3  | -12.9 |
| R4/500 |      | 129.6 | 28.4  | 29.4  | -1.1  | -3.9  |
| R5/500 |      | 124.0 | 30.1  | 28.9  | 1.2   | 4.0   |
| R1/501 |      | 160.6 | 65.2  | 60.4  | 4.8   | 7.4   |
| R2/501 |      | 230.7 | 62.3  | 77.0  | -14.8 | -23.8 |
| R3/501 |      | 181.1 | 46.9  | 47.5  | -0.5  | -1.1  |
| R4/501 |      | 129.6 | 36.6  | 37.3  | -0.7  | -1.9  |
| R5/501 |      | 124.0 | 36.7  | 35.7  | 1.0   | 2.7   |
| R1/502 |      | 160.6 | 73.7  | 73.7  | 0.1   | 0.1   |
| R2/502 |      | 230.7 | 76.9  | 94.8  | -17.9 | -23.3 |
| R3/502 |      | 181.1 | 59.7  | 60.5  | -0.8  | -1.3  |
| R4/502 |      | 128.5 | 45.3  | 46.0  | -0.7  | -1.5  |
| R5/502 |      | 124.0 | 46.0  | 46.0  | -0.1  | -0.2  |
| R1/503 |      | 160.6 | 85.6  | 89.0  | -3.4  | -4.0  |
| R2/503 |      | 230.7 | 100.5 | 118.2 | -17.7 | -17.6 |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R3/503         |          | 181.1         | 79.1          | 82.6         | -3.5          | -4.4  |
| R4/503         |          | 128.5         | 61.1          | 61.6         | -0.5          | -0.8  |
| R5/503         |          | 124.0         | 58.8          | 61.3         | -2.5          | -4.3  |
| R1/504         |          | 160.6         | 110.3         | 112.8        | -2.5          | -2.3  |
| R2/504         |          | 230.7         | 149.9         | 161.6        | -11.6         | -7.7  |
| R3/504         |          | 181.1         | 116.6         | 119.5        | -3.0          | -2.6  |
| R4/504         |          | 128.5         | 85.6          | 90.6         | -4.9          | -5.7  |
| R5/504         |          | 124.0         | 83.9          | 86.8         | -2.9          | -3.5  |
| R1/505         |          | 160.1         | 151.6         | 151.6        | 0.0           | 0.0   |
| R2/505         |          | 230.7         | 226.4         | 226.4        | 0.0           | 0.0   |
| R3/505         |          | 181.1         | 172.1         | 172.1        | 0.0           | 0.0   |
| R4/505         |          | 125.5         | 121.1         | 122.4        | -1.3          | -1.1  |
| R5/505         |          | 121.7         | 118.4         | 118.4        | 0.0           | 0.0   |

CHURCH & HOSTEL, SANDWICH STREET / 70 THANET STREET

|        |            |       |      |      |      |      |
|--------|------------|-------|------|------|------|------|
| R1/600 | ENTRANCE   | 220.0 | 58.9 | 45.7 | 13.2 | 22.4 |
| R1/601 | LKD        | 140.8 | 42.7 | 36.6 | 6.1  | 14.3 |
| R2/601 | BEDROOM    | 71.8  | 16.9 | 15.7 | 1.2  | 7.1  |
| R3/601 | BEDROOM    | 82.5  | 16.3 | 15.5 | 0.9  | 5.5  |
| R4/601 | DINING     | 137.9 | 15.8 | 15.2 | 0.6  | 3.8  |
| R5/601 | LIVINGROOM | 172.1 | 41.5 | 43.0 | -1.5 | -3.6 |
| R1/602 | LKD        | 140.8 | 53.8 | 51.3 | 2.5  | 4.6  |
| R2/602 | BEDROOM    | 71.8  | 23.3 | 21.2 | 2.1  | 9.0  |
| R3/602 | BEDROOM    | 82.5  | 24.1 | 21.4 | 2.7  | 11.2 |
| R4/602 | DINING     | 137.9 | 25.0 | 21.4 | 3.7  | 14.8 |
| R5/602 | LIVINGROOM | 172.1 | 60.5 | 59.1 | 1.4  | 2.3  |
| R1/603 | LKD        | 140.8 | 62.5 | 64.0 | -1.5 | -2.4 |
| R2/603 | BEDROOM    | 71.8  | 29.6 | 28.8 | 0.8  | 2.7  |
| R3/603 | BEDROOM    | 82.5  | 36.1 | 29.1 | 7.0  | 19.4 |
| R4/603 | DINING     | 137.9 | 38.7 | 29.9 | 8.8  | 22.7 |
| R5/603 | LIVINGROOM | 172.1 | 87.7 | 79.9 | 7.8  | 8.9  |
| R1/604 | LKD        | 140.8 | 76.4 | 80.4 | -4.0 | -5.2 |
| R2/604 | BEDROOM    | 71.8  | 39.2 | 41.4 | -2.2 | -5.6 |

| Room/<br>Floor | Room Use   | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|------------|---------------|---------------|--------------|---------------|-------|
| R3/604         | BEDROOM    | 82.5          | 51.0          | 41.3         | 9.7           | 19.0  |
| R4/604         | DINING     | 137.9         | 62.8          | 41.8         | 21.0          | 33.4  |
| R5/604         | LIVINGROOM | 172.1         | 135.9         | 103.6        | 32.3          | 23.8  |
| R1/605         |            | 92.1          | 92.1          | 92.1         | 0.0           | 0.0   |
| R2/605         | DINING     | 108.5         | 42.7          | 39.3         | 3.3           | 7.7   |
| R3/605         | BEDROOM    | 86.5          | 46.1          | 36.8         | 9.3           | 20.2  |
| R4/605         | BEDROOM    | 86.3          | 70.8          | 36.8         | 34.0          | 48.0  |
| R5/605         | BEDROOM    | 86.5          | 81.7          | 36.8         | 44.9          | 55.0  |
| R6/605         | BEDROOM    | 85.3          | 80.9          | 36.9         | 44.0          | 54.4  |
| R7/605         | BEDROOM    | 77.1          | 68.3          | 31.8         | 36.5          | 53.4  |
| R1/610         | CHURCH     | 452.9         | 238.4         | 174.1        | 64.4          | 27.0  |
| R1/4005        |            | 101.0         | 88.3          | 86.2         | 2.1           | 2.4   |
| R2/4005        |            | 88.5          | 78.6          | 75.4         | 3.2           | 4.1   |
| R3/4005        |            | 88.5          | 78.6          | 75.4         | 3.2           | 4.1   |
| R4/4005        |            | 88.5          | 78.6          | 75.4         | 3.2           | 4.1   |
| R5/4005        |            | 88.5          | 82.8          | 79.6         | 3.2           | 3.9   |

9 SANDWICH STREET

|        |      |       |       |       |      |      |
|--------|------|-------|-------|-------|------|------|
| R1/699 |      | 148.8 | 47.4  | 34.6  | 12.8 | 27.0 |
| R1/700 |      | 148.8 | 82.8  | 62.0  | 20.9 | 25.2 |
| R2/700 | HALL | 61.0  | 29.6  | 19.1  | 10.5 | 35.5 |
| R1/701 |      | 213.9 | 183.2 | 142.5 | 40.7 | 22.2 |
| R1/702 |      | 213.9 | 184.0 | 143.8 | 40.2 | 21.8 |
| R1/703 |      | 213.9 | 194.7 | 148.0 | 46.7 | 24.0 |

8 SANDWICH STREET

|        |      |       |       |       |      |      |
|--------|------|-------|-------|-------|------|------|
| R1/799 |      | 141.8 | 42.6  | 31.5  | 11.1 | 26.1 |
| R1/800 |      | 141.8 | 89.1  | 68.6  | 20.6 | 23.1 |
| R2/800 | HALL | 59.4  | 31.9  | 24.0  | 7.9  | 24.8 |
| R1/801 |      | 202.1 | 184.0 | 151.1 | 32.9 | 17.9 |
| R1/802 |      | 202.1 | 182.7 | 153.8 | 28.8 | 15.8 |

| Room/<br>Floor           | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|--------------------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/803                   |          | 202.1         | 181.3         | 155.4        | 25.9          | 14.3  |
| <b>7 SANDWICH STREET</b> |          |               |               |              |               |       |
| R1/899                   |          | 139.4         | 41.6          | 29.0         | 12.6          | 30.3  |
| R1/900                   |          | 139.4         | 88.5          | 70.9         | 17.6          | 19.9  |
| R2/900                   | HALL     | 53.6          | 30.0          | 23.4         | 6.6           | 22.0  |
| R1/901                   |          | 197.0         | 173.5         | 157.3        | 16.2          | 9.3   |
| R1/902                   |          | 197.0         | 166.3         | 161.2        | 5.1           | 3.1   |
| R1/903                   |          | 197.0         | 145.7         | 144.5        | 1.2           | 0.8   |
| <b>6 SANDWICH STREET</b> |          |               |               |              |               |       |
| R1/999                   |          | 140.8         | 44.2          | 32.4         | 11.7          | 26.5  |
| R2/999                   | HALL     | 62.8          | 3.6           | 2.2          | 1.4           | 38.9  |
| R1/1000                  |          | 140.8         | 85.0          | 70.6         | 14.4          | 16.9  |
| R2/1000                  | HALL     | 62.8          | 34.6          | 27.4         | 7.2           | 20.8  |
| R1/1001                  |          | 207.6         | 177.0         | 163.9        | 13.1          | 7.4   |
| R1/1002                  |          | 207.6         | 154.0         | 154.6        | -0.7          | -0.5  |
| R1/1003                  |          | 207.6         | 159.0         | 168.2        | -9.3          | -5.8  |
| R1/1004                  |          | 67.7          | 18.7          | 18.2         | 0.5           | 2.7   |
| <b>5 SANDWICH STREET</b> |          |               |               |              |               |       |
| R1/1099                  |          | 130.0         | 45.3          | 32.8         | 12.4          | 27.4  |
| R1/1100                  |          | 130.0         | 79.5          | 66.2         | 13.3          | 16.7  |
| R2/1100                  | HALL     | 56.4          | 31.6          | 24.9         | 6.7           | 21.2  |
| R1/1101                  |          | 190.4         | 158.0         | 148.9        | 9.1           | 5.8   |
| R1/1102                  |          | 190.4         | 147.1         | 152.9        | -5.9          | -4.0  |
| R1/1103                  |          | 190.4         | 151.2         | 167.9        | -16.6         | -11.0 |
| R1/1104                  |          | 57.6          | 17.7          | 17.8         | -0.1          | -0.6  |

| Room/<br>Floor    | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|-------------------|----------|---------------|---------------|--------------|---------------|-------|
| 4 SANDWICH STREET |          |               |               |              |               |       |
| R1/1199           | HALL     | 133.7         | 46.1          | 33.3         | 12.8          | 27.8  |
| R1/1200           |          | 133.7         | 78.4          | 64.5         | 13.9          | 17.7  |
| R2/1200           |          | 52.3          | 25.9          | 21.8         | 4.1           | 15.8  |
| R1/1201           |          | 190.0         | 159.5         | 148.7        | 10.9          | 6.8   |
| R1/1202           |          | 190.0         | 149.8         | 153.9        | -4.2          | -2.8  |
| R1/1203           |          | 190.0         | 156.6         | 175.1        | -18.6         | -11.9 |
| 3 SANDWICH STREET |          |               |               |              |               |       |
| R1/1299           | HALL     | 143.5         | 54.4          | 42.7         | 11.8          | 21.7  |
| R2/1299           |          | 27.3          | 20.8          | 20.8         | 0.0           | 0.0   |
| R1/1300           |          | 143.5         | 89.8          | 74.3         | 15.5          | 17.3  |
| R2/1300           |          | 52.7          | 17.1          | 13.8         | 3.2           | 18.7  |
| R1/1301           |          | 200.3         | 175.7         | 160.2        | 15.5          | 8.8   |
| R1/1302           |          | 200.3         | 169.3         | 168.3        | 1.0           | 0.6   |
| R1/1303           |          | 200.3         | 164.9         | 178.5        | -13.6         | -8.2  |
| 2 SANDWICH STREET |          |               |               |              |               |       |
| R1/1399           | HALL     | 152.2         | 60.2          | 50.1         | 10.2          | 16.9  |
| R1/1400           |          | 152.2         | 88.3          | 76.5         | 11.8          | 13.4  |
| R2/1400           |          | 73.3          | 29.5          | 25.1         | 4.4           | 14.9  |
| R1/1401           |          | 229.9         | 190.5         | 171.9        | 18.6          | 9.8   |
| R1/1402           |          | 229.9         | 188.6         | 173.2        | 15.4          | 8.2   |
| R1/1403           |          | 229.9         | 197.0         | 201.4        | -4.3          | -2.2  |
| R1/1404           |          | 137.9         | 126.0         | 126.0        | 0.0           | 0.0   |

| Room/<br>Floor       | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/1499              | HALL     | 114.1         | 81.5          | 76.4         | 5.1           | 6.3   |
| R1/1500              |          | 114.1         | 102.6         | 94.6         | 8.0           | 7.8   |
| R2/1500              |          | 76.8          | 25.9          | 20.2         | 5.7           | 22.0  |
| R1/1501              |          | 178.9         | 162.2         | 153.0        | 9.2           | 5.7   |
| R1/1502              |          | 178.9         | 163.0         | 155.1        | 7.9           | 4.8   |
| R1/1503              |          | 178.9         | 168.8         | 173.9        | -5.1          | -3.0  |
| R1/1504              |          | 67.2          | 22.3          | 21.9         | 0.4           | 1.8   |
| 28 LEIGH STREET (PH) |          |               |               |              |               |       |
| R1/1600              | PH       | 859.1         | 840.3         | 839.5        | 0.8           | 0.1   |
| R1/1601              |          | 138.6         | 119.4         | 112.3        | 7.1           | 5.9   |
| R2/1601              |          | 178.2         | 174.3         | 174.3        | 0.0           | 0.0   |
| R1/1602              |          | 138.6         | 132.1         | 122.1        | 10.1          | 7.6   |
| R2/1602              |          | 178.2         | 173.5         | 174.1        | -0.6          | -0.3  |
| R1/1603              |          | 138.6         | 132.1         | 119.4        | 12.6          | 9.5   |
| R2/1603              |          | 178.2         | 172.9         | 172.9        | 0.0           | 0.0   |
| 10 LEIGH STREET      |          |               |               |              |               |       |
| R1/1699              | HALL     | 50.8          | 5.2           | 5.2          | 0.0           | 0.0   |
| R1/1700              |          | 140.8         | 134.3         | 134.3        | 0.0           | 0.0   |
| R2/1700              |          | 50.8          | 45.8          | 45.8         | 0.0           | 0.0   |
| R1/1701              |          | 195.7         | 192.9         | 192.9        | 0.0           | 0.0   |
| R1/1702              |          | 195.7         | 192.2         | 192.2        | 0.0           | 0.0   |
| R1/1703              |          | 195.7         | 190.9         | 190.9        | 0.0           | 0.0   |
| R1/1704              |          | 58.3          | 19.7          | 20.2         | -0.5          | -2.5  |
| 9 LEIGH STREET       |          |               |               |              |               |       |
| R1/1799              |          | 204.3         | 131.8         | 129.8        | 1.9           | 1.4   |
| R1/1800              |          | 145.8         | 144.2         | 144.2        | 0.0           | 0.0   |



| Room/<br>Floor | Room Use   | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|------------|---------------|---------------|--------------|---------------|-------|
| R2/1800        | HALL       | 54.1          | 42.3          | 42.3         | 0.0           | 0.0   |
| R1/1801        |            | 204.3         | 200.0         | 200.0        | 0.0           | 0.0   |
| R1/1802        |            | 204.3         | 200.1         | 200.1        | 0.0           | 0.0   |
| R1/1803        |            | 204.3         | 197.5         | 197.5        | 0.0           | 0.0   |
| 8 LEIGH STREET |            |               |               |              |               |       |
| R1/1900        | RESTAURANT | 324.4         | 324.4         | 324.4        | 0.0           | 0.0   |
| R2/1900        | HALL       | 52.7          | 48.3          | 48.3         | 0.0           | 0.0   |
| R1/1901        |            | 200.4         | 196.8         | 196.8        | 0.0           | 0.0   |
| R1/1902        |            | 200.4         | 196.8         | 196.8        | 0.0           | 0.0   |
| R1/1903        |            | 200.4         | 195.7         | 195.7        | 0.0           | 0.0   |
| R1/1904        |            | 63.4          | 33.0          | 35.3         | -2.3          | -7.0  |
| 7 LEIGH STREET |            |               |               |              |               |       |
| R1/2000        | RESTAURANT | 334.4         | 334.1         | 333.4        | 0.7           | 0.2   |
| R2/2000        | HALL       | 54.3          | 48.2          | 44.2         | 4.1           | 8.5   |
| R1/2001        |            | 197.2         | 193.4         | 193.4        | 0.0           | 0.0   |
| R1/2002        |            | 197.2         | 192.4         | 192.4        | 0.0           | 0.0   |
| R1/2003        |            | 197.2         | 191.8         | 191.8        | 0.0           | 0.0   |
| R1/2004        |            | 69.6          | 37.2          | 38.9         | -1.6          | -4.3  |
| 6 LEIGH STREET |            |               |               |              |               |       |
| R1/2100        | COMMERCIAL | 238.8         | 229.2         | 220.2        | 9.0           | 3.9   |
| R2/2100        | HALL       | 49.3          | 29.0          | 25.3         | 3.8           | 13.1  |
| R1/2101        |            | 205.4         | 201.6         | 201.0        | 0.6           | 0.3   |
| R1/2102        |            | 205.6         | 194.4         | 194.7        | -0.3          | -0.2  |
| R1/2103        |            | 205.4         | 197.7         | 200.5        | -2.8          | -1.4  |
| R1/2104        |            | 70.1          | 31.8          | 32.0         | -0.2          | -0.6  |

| Room/<br>Floor        | Room Use   | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|-----------------------|------------|---------------|---------------|--------------|---------------|-------|
| <b>5 LEIGH STREET</b> |            |               |               |              |               |       |
| R1/2199               |            | 21.9          | 10.6          | 10.6         | 0.0           | 0.0   |
| R2/2199               |            | 146.8         | 48.6          | 44.0         | 4.6           | 9.5   |
| R1/2200               | COMMERCIAL | 227.8         | 155.6         | 143.7        | 12.0          | 7.7   |
| R2/2200               | HALL       | 86.2          | 24.5          | 23.9         | 0.6           | 2.4   |
| R1/2201               | LIVINGROOM | 205.4         | 199.4         | 199.2        | 0.2           | 0.1   |
| R1/2202               | LKD        | 194.8         | 183.8         | 183.5        | 0.3           | 0.2   |
| R1/2203               | LKD        | 194.8         | 185.8         | 188.4        | -2.6          | -1.4  |
| <b>4 LEIGH STREET</b> |            |               |               |              |               |       |
| R1/2300               | COMMERCIAL | 150.0         | 116.8         | 111.3        | 5.5           | 4.7   |
| R2/2300               | HALL       | 49.6          | 27.0          | 20.6         | 6.4           | 23.7  |
| R1/2301               |            | 202.8         | 186.4         | 186.1        | 0.3           | 0.2   |
| R1/2302               |            | 202.8         | 171.4         | 164.9        | 6.5           | 3.8   |
| R1/2303               |            | 202.8         | 177.0         | 184.9        | -7.9          | -4.5  |
| <b>3 LEIGH STREET</b> |            |               |               |              |               |       |
| R1/2399               | COMMERCIAL | 247.5         | 90.5          | 81.8         | 8.7           | 9.6   |
| R1/2400               | GALLERY    | 168.9         | 105.9         | 97.9         | 8.1           | 7.6   |
| R2/2400               | HALL       | 86.0          | 20.2          | 14.0         | 6.2           | 30.7  |
| R1/2401               | BEDSIT     | 241.8         | 196.5         | 180.4        | 16.1          | 8.2   |
| R1/2402               | LIVINGROOM | 241.8         | 194.5         | 179.5        | 15.0          | 7.7   |
| R1/2403               | BEDSIT     | 150.7         | 135.2         | 136.6        | -1.4          | -1.0  |
| <b>2 LEIGH STREET</b> |            |               |               |              |               |       |
| R1/2499               | BEDROOM    | 146.5         | 58.9          | 52.7         | 6.2           | 10.5  |
| R1/2500               | LIVINGROOM | 170.8         | 110.5         | 102.3        | 8.2           | 7.4   |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R2/2500        | HALL     | 89.7          | 24.5          | 20.7         | 3.7           | 15.1  |
| R1/2501        | BEDSIT   | 169.7         | 165.3         | 161.5        | 3.7           | 2.2   |
| R1/2502        | BEDSIT   | 169.7         | 164.5         | 162.7        | 1.8           | 1.1   |
| R1/2503        | BEDSIT   | 169.7         | 164.3         | 163.8        | 0.5           | 0.3   |

1 LEIGH STREET

|         |                  |       |       |       |     |     |
|---------|------------------|-------|-------|-------|-----|-----|
| R1/2599 | DINING           | 220.0 | 211.7 | 210.6 | 1.1 | 0.5 |
| R2/2599 | FOOD PREP        | 98.6  | 92.6  | 91.3  | 1.3 | 1.4 |
| R1/2600 | BEDROOM          | 111.6 | 91.3  | 87.3  | 4.0 | 4.4 |
| R2/2600 | BEDROOM          | 112.9 | 106.2 | 104.9 | 1.2 | 1.1 |
| R1/2601 | BEDROOM          | 113.6 | 97.7  | 96.2  | 1.5 | 1.5 |
| R2/2601 | BEDROOM - WINDOW | 112.9 | 111.4 | 111.3 | 0.1 | 0.1 |
| R1/2602 | BEDROOM          | 113.6 | 98.4  | 96.7  | 1.7 | 1.7 |
| R2/2602 | BEDROOM - WINDOW | 112.9 | 111.2 | 111.0 | 0.3 | 0.3 |
| R1/2603 | BEDROOM          | 113.6 | 100.2 | 97.9  | 2.3 | 2.3 |
| R2/2603 | BEDROOM - WINDOW | 112.9 | 111.4 | 111.2 | 0.1 | 0.1 |

61-63 CARTWRIGHT GARDENS (HOTEL)

|         |  |       |       |       |      |      |
|---------|--|-------|-------|-------|------|------|
| R1/2699 |  | 41.2  | 41.1  | 41.1  | 0.0  | 0.0  |
| R2/2699 |  | 128.4 | 108.0 | 102.1 | 5.9  | 5.5  |
| R3/2699 |  | 142.6 | 110.7 | 100.8 | 9.9  | 8.9  |
| R1/2700 |  | 106.1 | 79.1  | 78.7  | 0.5  | 0.6  |
| R2/2700 |  | 110.2 | 109.1 | 109.1 | 0.0  | 0.0  |
| R3/2700 |  | 142.6 | 135.5 | 131.0 | 4.5  | 3.3  |
| R3/2701 |  | 142.6 | 140.5 | 140.5 | 0.0  | 0.0  |
| R1/2702 |  | 96.2  | 89.6  | 89.6  | 0.0  | 0.0  |
| R2/2702 |  | 128.4 | 126.6 | 126.2 | 0.4  | 0.3  |
| R3/2702 |  | 142.6 | 140.1 | 139.4 | 0.7  | 0.5  |
| R1/2703 |  | 96.2  | 89.2  | 89.2  | 0.0  | 0.0  |
| R2/2703 |  | 128.4 | 126.5 | 126.5 | 0.0  | 0.0  |
| R3/2703 |  | 142.6 | 139.6 | 139.8 | -0.2 | -0.1 |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/2799        | HALL     | 235.6         | 198.0         | 184.9        | 13.1          | 6.6   |
| R2/2799        |          | 39.4          | 24.5          | 24.5         | 0.0           | 0.0   |
| R1/2800        |          | 235.6         | 234.0         | 223.7        | 10.3          | 4.4   |
| R2/2800        |          | 62.7          | 62.5          | 58.6         | 3.9           | 6.2   |
| R1/2801        |          | 209.5         | 207.8         | 207.8        | 0.0           | 0.0   |
| R2/2801        |          | 88.9          | 87.0          | 87.0         | 0.0           | 0.0   |
| R1/2802        |          | 209.5         | 208.1         | 207.7        | 0.5           | 0.2   |
| R2/2802        |          | 88.9          | 87.0          | 87.0         | 0.0           | 0.0   |
| R1/2803        |          | 209.5         | 207.0         | 206.3        | 0.7           | 0.3   |
| R2/2803        |          | 88.9          | 87.0          | 87.0         | 0.0           | 0.0   |
| R1/2899        |          | 183.3         | 153.9         | 137.9        | 16.0          | 10.4  |
| R2/2899        |          | 36.4          | 10.1          | 10.1         | 0.0           | 0.0   |
| R1/2900        |          | 183.3         | 182.3         | 181.4        | 1.0           | 0.5   |
| R2/2900        |          | 81.8          | 81.3          | 81.3         | 0.0           | 0.0   |
| R1/2901        |          | 183.3         | 182.0         | 182.0        | 0.0           | 0.0   |
| R2/2901        |          | 81.8          | 80.7          | 80.7         | 0.0           | 0.0   |
| R1/2902        |          | 183.3         | 182.1         | 182.1        | 0.0           | 0.0   |
| R2/2902        |          | 81.8          | 80.7          | 80.7         | 0.0           | 0.0   |
| R1/2903        |          | 183.3         | 181.2         | 181.2        | 0.0           | 0.0   |
| R2/2903        |          | 81.8          | 80.2          | 80.2         | 0.0           | 0.0   |

58-60 CARTWRIGHT GARDENS (HOTEL)

|         |      |       |       |       |      |      |
|---------|------|-------|-------|-------|------|------|
| R1/2999 | HALL | 201.1 | 161.7 | 145.1 | 16.6 | 10.3 |
| R2/2999 |      | 67.1  | 29.9  | 29.8  | 0.1  | 0.3  |
| R1/3000 |      | 201.1 | 199.8 | 196.8 | 3.1  | 1.6  |
| R2/3000 |      | 49.1  | 47.7  | 46.6  | 1.0  | 2.1  |
| R1/3001 |      | 171.3 | 170.6 | 170.6 | 0.0  | 0.0  |
| R2/3001 |      | 76.0  | 74.4  | 74.4  | 0.0  | 0.0  |
| R1/3002 |      | 171.3 | 170.7 | 170.7 | 0.0  | 0.0  |
| R2/3002 |      | 76.0  | 74.4  | 74.4  | 0.0  | 0.0  |
| R1/3003 |      | 171.3 | 169.7 | 169.7 | 0.0  | 0.0  |
| R2/3003 |      | 76.0  | 73.9  | 73.9  | 0.0  | 0.0  |

| Room/<br>Floor                                      | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|-----------------------------------------------------|----------|---------------|---------------|--------------|---------------|-------|
| BENTHAM HALL (UNIVERSITY), 31-43 CARTWRIGHT GARDENS |          |               |               |              |               |       |
| R1/3099                                             | HALL     | 137.2         | 134.5         | 116.9        | 17.6          | 13.1  |
| R1/3100                                             |          | 139.1         | 121.0         | 120.9        | 0.2           | 0.2   |
| R2/3100                                             |          | 137.2         | 135.9         | 135.9        | 0.0           | 0.0   |
| R1/3101                                             |          | 139.1         | 137.7         | 137.7        | 0.0           | 0.0   |
| R2/3101                                             |          | 137.2         | 135.6         | 135.6        | 0.0           | 0.0   |
| R1/3102                                             |          | 139.1         | 137.3         | 137.3        | 0.0           | 0.0   |
| R2/3102                                             |          | 137.2         | 135.1         | 135.1        | 0.0           | 0.0   |
| R1/3103                                             |          | 139.1         | 137.3         | 137.3        | 0.0           | 0.0   |
| R2/3103                                             |          | 137.2         | 134.7         | 134.7        | 0.0           | 0.0   |
| 30 CARTWRIGHT GARDENS                               |          |               |               |              |               |       |
| R1/3199                                             | HALL     | 130.0         | 126.0         | 118.5        | 7.5           | 6.0   |
| R1/3200                                             |          | 141.2         | 140.4         | 140.2        | 0.1           | 0.1   |
| R2/3200                                             |          | 130.0         | 129.0         | 129.0        | 0.0           | 0.0   |
| R1/3201                                             |          | 141.2         | 139.5         | 139.5        | 0.0           | 0.0   |
| R2/3201                                             |          | 130.0         | 128.6         | 128.6        | 0.0           | 0.0   |
| R1/3202                                             |          | 141.2         | 139.2         | 139.2        | 0.0           | 0.0   |
| R2/3202                                             |          | 130.0         | 128.2         | 128.2        | 0.0           | 0.0   |
| R1/3203                                             |          | 141.2         | 139.2         | 139.2        | 0.0           | 0.0   |
| R2/3203                                             |          | 130.0         | 128.5         | 128.5        | 0.0           | 0.0   |
| 29 CARTWRIGHT GARDENS                               |          |               |               |              |               |       |
| R1/3299                                             | HALL     | 135.4         | 10.1          | 9.8          | 0.4           | 4.0   |
| R2/3299                                             |          | 138.9         | 135.9         | 128.3        | 7.6           | 5.6   |
| R1/3300                                             |          | 135.4         | 134.2         | 134.2        | 0.0           | 0.0   |
| R2/3300                                             |          | 138.9         | 137.4         | 137.4        | 0.0           | 0.0   |
| R1/3301                                             |          | 135.4         | 134.0         | 134.0        | 0.0           | 0.0   |
| R2/3301                                             |          | 138.9         | 136.9         | 136.9        | 0.0           | 0.0   |

| Room/<br>Floor | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|----------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/3302        |          | 135.4         | 133.7         | 133.7        | 0.0           | 0.0   |
| R2/3302        |          | 138.9         | 136.5         | 136.5        | 0.0           | 0.0   |
| R1/3303        |          | 135.4         | 133.7         | 133.7        | 0.0           | 0.0   |
| R2/3303        |          | 138.9         | 136.5         | 136.5        | 0.0           | 0.0   |

#### 28 CARTWRIGHT GARDENS

|         |      |       |       |       |      |     |
|---------|------|-------|-------|-------|------|-----|
| R1/3399 |      | 214.2 | 209.9 | 199.8 | 10.1 | 4.8 |
| R1/3400 | HALL | 94.6  | 84.7  | 84.7  | 0.0  | 0.0 |
| R2/3400 |      | 214.2 | 213.3 | 213.3 | 0.0  | 0.0 |
| R1/3401 |      | 72.4  | 71.6  | 71.6  | 0.0  | 0.0 |
| R2/3401 |      | 202.7 | 201.4 | 201.4 | 0.0  | 0.0 |
| R1/3402 |      | 72.4  | 71.2  | 71.2  | 0.0  | 0.0 |
| R2/3402 |      | 202.7 | 200.7 | 200.7 | 0.0  | 0.0 |
| R1/3403 |      | 72.4  | 71.1  | 71.1  | 0.0  | 0.0 |
| R2/3403 |      | 202.7 | 200.7 | 200.7 | 0.0  | 0.0 |

#### 27 CARTWRIGHT GARDENS

|         |                 |       |       |       |      |     |
|---------|-----------------|-------|-------|-------|------|-----|
| R1/3499 |                 | 146.5 | 141.4 | 127.9 | 13.5 | 9.5 |
| R2/3499 | WINDOWS BLOCKED | 135.1 | 130.9 | 123.6 | 7.3  | 5.6 |
| R1/3500 |                 | 146.5 | 144.9 | 144.8 | 0.0  | 0.0 |
| R2/3500 | WINDOWS BLOCKED | 135.1 | 134.1 | 134.1 | 0.0  | 0.0 |
| R1/3501 |                 | 146.5 | 143.9 | 143.9 | 0.0  | 0.0 |
| R2/3501 | WINDOWS BLOCKED | 135.1 | 133.5 | 133.5 | 0.0  | 0.0 |
| R1/3502 |                 | 146.5 | 143.5 | 143.5 | 0.0  | 0.0 |
| R2/3502 | WINDOWS BLOCKED | 135.1 | 133.3 | 133.3 | 0.0  | 0.0 |
| R1/3503 |                 | 146.5 | 142.7 | 142.7 | 0.0  | 0.0 |
| R2/3503 | WINDOWS BLOCKED | 135.1 | 133.3 | 133.3 | 0.0  | 0.0 |

#### 160-181 THANET STREET

| Room/<br>Floor               | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|------------------------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/3605                      |          | 120.7         | 101.0         | 100.8        | 0.2           | 0.2   |
| R2/3605                      |          | 250.4         | 240.7         | 240.4        | 0.3           | 0.1   |
| R3/3605                      |          | 145.7         | 133.0         | 132.5        | 0.4           | 0.3   |
| <b>136-159 THANET STREET</b> |          |               |               |              |               |       |
| R1/3705                      | TEST     | 220.3         | 217.6         | 217.6        | 0.0           | 0.0   |
| R2/3705                      |          | 119.3         | 115.8         | 115.8        | 0.0           | 0.0   |
| R3/3705                      |          | 144.5         | 115.9         | 115.9        | 0.0           | 0.0   |
| R4/3705                      |          | 119.8         | 116.7         | 116.6        | 0.1           | 0.1   |
| R5/3705                      |          | 226.9         | 224.1         | 224.1        | 0.0           | 0.0   |
| R6/3705                      |          | 135.5         | 133.0         | 133.0        | 0.0           | 0.0   |
| <b>112-135 THANET STREET</b> |          |               |               |              |               |       |
| R1/3805                      |          | 227.7         | 220.1         | 220.1        | 0.0           | 0.0   |
| R2/3805                      |          | 133.6         | 127.5         | 127.5        | 0.0           | 0.0   |
| R3/3805                      |          | 96.2          | 95.2          | 95.2         | 0.0           | 0.0   |
| R4/3805                      |          | 124.6         | 110.8         | 110.8        | 0.0           | 0.0   |
| R5/3805                      |          | 137.3         | 132.2         | 132.2        | 0.0           | 0.0   |
| R6/3805                      |          | 218.5         | 213.3         | 213.3        | 0.0           | 0.0   |
| <b>91-111 THANET STREET</b>  |          |               |               |              |               |       |
| R1/3905                      |          | 235.9         | 218.3         | 218.3        | 0.0           | 0.0   |
| R2/3905                      |          | 118.7         | 115.5         | 115.5        | 0.0           | 0.0   |
| R3/3905                      |          | 127.9         | 123.6         | 123.6        | 0.0           | 0.0   |
| R4/3905                      |          | 147.2         | 140.5         | 140.5        | 0.0           | 0.0   |
| R5/3905                      |          | 129.0         | 125.7         | 125.7        | 0.0           | 0.0   |

**1-30 RASHLEIGH HOUSE, THANET STREET**

| Room/<br>Floor                       | Room Use | Whole<br>Room | Prev<br>sq ft | New<br>sq ft | Loss<br>sq ft | %Loss |
|--------------------------------------|----------|---------------|---------------|--------------|---------------|-------|
| R1/4104                              |          | 144.8         | 134.3         | 134.3        | 0.0           | 0.0   |
| R2/4104                              |          | 106.1         | 105.8         | 105.8        | 0.0           | 0.0   |
| R3/4104                              |          | 129.4         | 128.2         | 128.2        | 0.0           | 0.0   |
| R4/4104                              |          | 99.3          | 95.4          | 95.4         | 0.0           | 0.0   |
| R5/4104                              |          | 143.9         | 140.3         | 140.3        | 0.0           | 0.0   |
| R6/4104                              |          | 158.8         | 107.0         | 107.2        | -0.2          | -0.2  |
| R7/4104                              |          | 116.6         | 114.2         | 114.2        | 0.0           | 0.0   |
| R1/4114                              |          | 112.7         | 110.3         | 110.3        | 0.0           | 0.0   |
| 31-63 RASHLEIGH HOUSE, THANET STREET |          |               |               |              |               |       |
| R1/4204                              |          | 141.1         | 138.9         | 138.9        | 0.0           | 0.0   |
| R2/4204                              |          | 128.5         | 126.5         | 126.5        | 0.0           | 0.0   |
| R3/4204                              |          | 132.4         | 124.0         | 124.0        | 0.0           | 0.0   |
| R4/4204                              |          | 137.0         | 136.3         | 136.3        | 0.0           | 0.0   |
| R5/4204                              |          | 113.3         | 109.5         | 109.5        | 0.0           | 0.0   |
| R6/4204                              |          | 143.1         | 141.7         | 141.7        | 0.0           | 0.0   |
| R1/4214                              |          | 120.1         | 117.4         | 117.4        | 0.0           | 0.0   |





| Room                            | Window | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------------------------------|--------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                 |        |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                 |        |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| HAMILTON HOUSE, HASTINGS STREET |        |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/99                           | W1/99  | VENT     | 6           | 30          | 6           | 30          | 0.0          | 0.0          | 6           | 30          | 6           | 30          | 0.0          | 0.0          |
| R2/99                           | W2/99  | ASSUMED  | 0           | 3           | 0           | 3           | -            | 0.0          | 0           | 3           | 0           | 3           | -            | 0.0          |
| R3/99                           | W3/99  | VENT     | 5           | 27          | 5           | 27          | 0.0          | 0.0          | 5           | 27          | 5           | 27          | 0.0          | 0.0          |
| R4/99                           | W4/99  |          | 5           | 16          | 5           | 16          | 0.0          | 0.0          | 5           | 16          | 5           | 16          | 0.0          | 0.0          |
| R5/99                           | W5/99  |          | 0           | 10          | 0           | 10          | -            | 0.0          | 0           | 10          | 0           | 10          | -            | 0.0          |
| R6/99                           | W6/99  |          | 3           | 22          | 3           | 22          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/99                           | W7/99  |          | 4           | 28          | 4           | 28          | 0.0          | 0.0          | 5           | 29          | 5           | 29          | 0.0          | 0.0          |
| R7/99                           | W8/99  |          | 3           | 23          | 3           | 23          | 0.0          | 0.0          |             |             |             |             |              |              |
| R7/99                           | W9/99  |          | 3           | 22          | 3           | 22          | 0.0          | 0.0          | 3           | 23          | 3           | 23          | 0.0          | 0.0          |
| R8/99                           | W10/99 |          | 3           | 26          | 3           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R8/99                           | W11/99 |          | 3           | 26          | 3           | 26          | 0.0          | 0.0          | 4           | 30          | 4           | 30          | 0.0          | 0.0          |
| R9/99                           | W12/99 |          | 5           | 28          | 5           | 28          | 0.0          | 0.0          |             |             |             |             |              |              |
| R9/99                           | W13/99 |          | 7           | 31          | 7           | 31          | 0.0          | 0.0          | 7           | 33          | 7           | 33          | 0.0          | 0.0          |
| R10/99                          | W14/99 |          | 6           | 26          | 6           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R10/99                          | W15/99 |          | 7           | 26          | 7           | 26          | 0.0          | 0.0          | 8           | 30          | 8           | 30          | 0.0          | 0.0          |
| R11/99                          | W16/99 |          | 3           | 9           | 3           | 9           | 0.0          | 0.0          | 3           | 9           | 3           | 9           | 0.0          | 0.0          |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/100 | W1/100  |          | 17          | 44          | 17          | 44          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/100 | W2/100  |          | 17          | 45          | 17          | 44          | 0.0          | 2.2          | 20          | 54          | 20          | 54          | 0.0          | 0.0          |
| R2/100 | W3/100  |          | 12          | 31          | 12          | 31          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/100 | W4/100  |          | 11          | 34          | 11          | 34          | 0.0          | 0.0          | 14          | 40          | 14          | 40          | 0.0          | 0.0          |
| R3/100 | W5/100  |          | 12          | 38          | 12          | 38          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/100 | W6/100  |          | 11          | 35          | 11          | 35          | 0.0          | 0.0          | 12          | 40          | 12          | 40          | 0.0          | 0.0          |
| R4/100 | W7/100  |          | 9           | 34          | 9           | 33          | 0.0          | 2.9          |             |             |             |             |              |              |
| R4/100 | W8/100  |          | 7           | 32          | 7           | 32          | 0.0          | 0.0          | 9           | 36          | 9           | 36          | 0.0          | 0.0          |
| R5/100 | W9/100  |          | 4           | 23          | 4           | 22          | 0.0          | 4.3          |             |             |             |             |              |              |
| R5/100 | W10/100 |          | 7           | 28          | 7           | 28          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/100 | W11/100 |          | 8           | 33          | 8           | 33          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/100 | W12/100 |          | 8           | 35          | 8           | 34          | 0.0          | 2.9          | 8           | 37          | 8           | 36          | 0.0          | 2.7          |
| R6/100 | W13/100 |          | 9           | 40          | 9           | 39          | 0.0          | 2.5          |             |             |             |             |              |              |
| R6/100 | W14/100 |          | 8           | 39          | 8           | 39          | 0.0          | 0.0          | 9           | 43          | 9           | 43          | 0.0          | 0.0          |
| R7/100 | W15/100 |          | 7           | 36          | 7           | 35          | 0.0          | 2.8          |             |             |             |             |              |              |
| R7/100 | W16/100 |          | 9           | 36          | 9           | 35          | 0.0          | 2.8          | 9           | 39          | 9           | 39          | 0.0          | 0.0          |
| R8/100 | W17/100 |          | 8           | 34          | 8           | 34          | 0.0          | 0.0          |             |             |             |             |              |              |
| R8/100 | W18/100 |          | 7           | 41          | 7           | 40          | 0.0          | 2.4          | 8           | 42          | 8           | 41          | 0.0          | 2.4          |
| R9/100 | W19/100 |          | 10          | 43          | 8           | 41          | 20.0         | 4.7          |             |             |             |             |              |              |

| Room    | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R9/100  | W20/100 |          | 12          | 46          | 10          | 44          | 16.7         | 4.3          | 12          | 48          | 11          | 47          | 8.3          | 2.1          |
| R10/100 | W21/100 |          | 11          | 45          | 10          | 44          | 9.1          | 2.2          |             |             |             |             |              |              |
| R10/100 | W22/100 |          | 8           | 41          | 7           | 40          | 12.5         | 2.4          | 11          | 45          | 10          | 44          | 9.1          | 2.2          |
| R1/101  | W1/101  |          | 18          | 54          | 18          | 54          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/101  | W2/101  |          | 18          | 50          | 18          | 49          | 0.0          | 2.0          | 21          | 64          | 21          | 64          | 0.0          | 0.0          |
| R2/101  | W3/101  |          | 12          | 34          | 12          | 34          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/101  | W4/101  |          | 12          | 39          | 12          | 39          | 0.0          | 0.0          | 15          | 43          | 15          | 43          | 0.0          | 0.0          |
| R3/101  | W5/101  |          | 12          | 41          | 12          | 41          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/101  | W6/101  |          | 12          | 40          | 12          | 40          | 0.0          | 0.0          | 13          | 45          | 13          | 45          | 0.0          | 0.0          |
| R4/101  | W7/101  |          | 10          | 39          | 10          | 38          | 0.0          | 2.6          |             |             |             |             |              |              |
| R4/101  | W8/101  |          | 8           | 37          | 8           | 37          | 0.0          | 0.0          | 10          | 41          | 10          | 41          | 0.0          | 0.0          |
| R5/101  | W9/101  |          | 9           | 39          | 9           | 39          | 0.0          | 0.0          | 9           | 39          | 9           | 39          | 0.0          | 0.0          |
| R6/101  | W10/101 |          | 9           | 48          | 9           | 48          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/101  | W11/101 |          | 7           | 47          | 7           | 46          | 0.0          | 2.1          |             |             |             |             |              |              |
| R6/101  | W12/101 |          | 8           | 47          | 8           | 47          | 0.0          | 0.0          | 10          | 53          | 10          | 53          | 0.0          | 0.0          |
| R7/101  | W13/101 |          | 10          | 47          | 10          | 47          | 0.0          | 0.0          |             |             |             |             |              |              |
| R7/101  | W14/101 |          | 10          | 49          | 10          | 49          | 0.0          | 0.0          | 11          | 51          | 11          | 51          | 0.0          | 0.0          |
| R8/101  | W15/101 |          | 11          | 52          | 11          | 52          | 0.0          | 0.0          |             |             |             |             |              |              |
| R8/101  | W16/101 |          | 12          | 54          | 11          | 53          | 8.3          | 1.9          | 13          | 56          | 13          | 56          | 0.0          | 0.0          |

| Room    | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R9/101  | W17/101 |          | 11          | 54          | 11          | 54          | 0.0          | 0.0          |             |             |             |             |              |              |
| R9/101  | W18/101 |          | 8           | 51          | 8           | 51          | 0.0          | 0.0          | 11          | 55          | 11          | 55          | 0.0          | 0.0          |
| R10/101 | W19/101 |          | 7           | 51          | 7           | 51          | 0.0          | 0.0          | 7           | 51          | 7           | 51          | 0.0          | 0.0          |
| R1/102  | W1/102  |          | 21          | 59          | 21          | 59          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/102  | W2/102  |          | 18          | 48          | 18          | 47          | 0.0          | 2.1          | 21          | 70          | 21          | 69          | 0.0          | 1.4          |
| R2/102  | W3/102  |          | 12          | 34          | 12          | 34          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/102  | W4/102  |          | 12          | 39          | 12          | 39          | 0.0          | 0.0          | 15          | 43          | 15          | 43          | 0.0          | 0.0          |
| R3/102  | W5/102  |          | 12          | 42          | 12          | 42          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/102  | W6/102  |          | 13          | 44          | 13          | 44          | 0.0          | 0.0          | 14          | 48          | 14          | 48          | 0.0          | 0.0          |
| R4/102  | W7/102  |          | 11          | 42          | 11          | 41          | 0.0          | 2.4          |             |             |             |             |              |              |
| R4/102  | W8/102  |          | 8           | 41          | 8           | 41          | 0.0          | 0.0          | 11          | 44          | 11          | 44          | 0.0          | 0.0          |
| R5/102  | W9/102  |          | 9           | 45          | 9           | 45          | 0.0          | 0.0          | 9           | 45          | 9           | 45          | 0.0          | 0.0          |
| R6/102  | W10/102 |          | 11          | 54          | 11          | 54          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/102  | W11/102 |          | 8           | 50          | 8           | 50          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/102  | W12/102 |          | 9           | 50          | 9           | 50          | 0.0          | 0.0          | 12          | 57          | 12          | 57          | 0.0          | 0.0          |
| R7/102  | W13/102 |          | 10          | 52          | 10          | 52          | 0.0          | 0.0          |             |             |             |             |              |              |
| R7/102  | W14/102 |          | 12          | 57          | 12          | 57          | 0.0          | 0.0          | 12          | 57          | 12          | 57          | 0.0          | 0.0          |
| R8/102  | W15/102 |          | 14          | 60          | 14          | 60          | 0.0          | 0.0          |             |             |             |             |              |              |

| Room    | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R8/102  | W16/102 |          | 13          | 60          | 12          | 59          | 7.7          | 1.7          | 16          | 63          | 16          | 63          | 0.0          | 0.0          |
| R9/102  | W17/102 |          | 13          | 60          | 13          | 60          | 0.0          | 0.0          |             |             |             |             |              |              |
| R9/102  | W18/102 |          | 11          | 60          | 11          | 60          | 0.0          | 0.0          | 13          | 62          | 13          | 62          | 0.0          | 0.0          |
| R10/102 | W19/102 |          | 11          | 60          | 11          | 60          | 0.0          | 0.0          | 11          | 60          | 11          | 60          | 0.0          | 0.0          |
| R1/103  | W1/103  |          | 23          | 65          | 23          | 65          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/103  | W2/103  |          | 19          | 51          | 19          | 50          | 0.0          | 2.0          | 24          | 75          | 24          | 75          | 0.0          | 0.0          |
| R2/103  | W3/103  |          | 12          | 36          | 12          | 36          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/103  | W4/103  |          | 12          | 37          | 12          | 37          | 0.0          | 0.0          | 15          | 42          | 15          | 42          | 0.0          | 0.0          |
| R3/103  | W5/103  |          | 12          | 41          | 12          | 41          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/103  | W6/103  |          | 13          | 44          | 13          | 44          | 0.0          | 0.0          | 14          | 46          | 14          | 46          | 0.0          | 0.0          |
| R4/103  | W7/103  |          | 11          | 42          | 11          | 41          | 0.0          | 2.4          |             |             |             |             |              |              |
| R4/103  | W8/103  |          | 10          | 42          | 10          | 42          | 0.0          | 0.0          | 12          | 45          | 12          | 45          | 0.0          | 0.0          |
| R5/103  | W9/103  |          | 11          | 46          | 11          | 46          | 0.0          | 0.0          | 11          | 46          | 11          | 46          | 0.0          | 0.0          |
| R6/103  | W10/103 |          | 11          | 54          | 11          | 54          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/103  | W11/103 |          | 11          | 56          | 11          | 56          | 0.0          | 0.0          | 12          | 57          | 12          | 57          | 0.0          | 0.0          |
| R7/103  | W12/103 |          | 14          | 60          | 14          | 60          | 0.0          | 0.0          |             |             |             |             |              |              |
| R7/103  | W13/103 |          | 16          | 62          | 15          | 61          | 6.3          | 1.6          | 16          | 62          | 16          | 62          | 0.0          | 0.0          |
| R8/103  | W14/103 |          | 17          | 63          | 17          | 63          | 0.0          | 0.0          |             |             |             |             |              |              |

| Room    | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R8/103  | W15/103 |          | 17          | 64          | 17          | 64          | 0.0          | 0.0          | 17          | 64          | 17          | 64          | 0.0          | 0.0          |
| R9/103  | W16/103 |          | 14          | 61          | 14          | 61          | 0.0          | 0.0          | 14          | 61          | 14          | 61          | 0.0          | 0.0          |
| R1/104  | W1/104  |          | 22          | 61          | 22          | 61          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/104  | W2/104  |          | 19          | 49          | 19          | 48          | 0.0          | 2.0          | 22          | 72          | 22          | 71          | 0.0          | 1.4          |
| R2/104  | W3/104  |          | 11          | 39          | 11          | 39          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/104  | W4/104  |          | 11          | 45          | 11          | 44          | 0.0          | 2.2          | 14          | 52          | 14          | 51          | 0.0          | 1.9          |
| R3/104  | W5/104  |          | 12          | 48          | 12          | 48          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/104  | W6/104  |          | 14          | 54          | 14          | 54          | 0.0          | 0.0          | 15          | 57          | 15          | 57          | 0.0          | 0.0          |
| R4/104  | W7/104  |          | 11          | 53          | 11          | 53          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/104  | W8/104  |          | 11          | 52          | 11          | 52          | 0.0          | 0.0          | 13          | 57          | 13          | 57          | 0.0          | 0.0          |
| R5/104  | W9/104  |          | 12          | 56          | 12          | 56          | 0.0          | 0.0          | 12          | 56          | 12          | 56          | 0.0          | 0.0          |
| R8/104  | W12/104 |          | 13          | 64          | 13          | 64          | 0.0          | 0.0          |             |             |             |             |              |              |
| R8/104  | W13/104 |          | 14          | 65          | 14          | 65          | 0.0          | 0.0          | 14          | 66          | 14          | 66          | 0.0          | 0.0          |
| R9/104  | W14/104 |          | 16          | 67          | 16          | 67          | 0.0          | 0.0          |             |             |             |             |              |              |
| R9/104  | W15/104 |          | 18          | 69          | 18          | 69          | 0.0          | 0.0          | 18          | 69          | 18          | 69          | 0.0          | 0.0          |
| R10/104 | W16/104 |          | 18          | 69          | 18          | 69          | 0.0          | 0.0          |             |             |             |             |              |              |
| R10/104 | W17/104 |          | 20          | 71          | 20          | 71          | 0.0          | 0.0          | 20          | 71          | 20          | 71          | 0.0          | 0.0          |
| R11/104 | W18/104 |          | 21          | 72          | 21          | 72          | 0.0          | 0.0          | 21          | 72          | 21          | 72          | 0.0          | 0.0          |

| Room                                 | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------------------------------------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                      |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                      |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/113                               | W1/113  |              | 12          | 51          | 12          | 51          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/113                               | W2/113  |              | 9           | 49          | 9           | 49          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/113                               | W3/113  |              | 9           | 50          | 9           | 50          | 0.0          | 0.0          | 13          | 55          | 13          | 55          | 0.0          | 0.0          |
| R1/114                               | W1/114  |              | 13          | 61          | 13          | 61          | 0.0          | 0.0          | 13          | 61          | 13          | 61          | 0.0          | 0.0          |
| R2/114                               | W2/114  |              | 13          | 62          | 13          | 62          | 0.0          | 0.0          | 13          | 62          | 13          | 62          | 0.0          | 0.0          |
| 1-27 SINCLAIR HOUSE, SANDWICH STREET |         |              |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/200                               | W7/200  | CAFE         | 10          | 30          | 7           | 27          | 30.0         | 10.0         | 10          | 30          | 7           | 27          | 30.0         | 10.0         |
| R2/200                               | W8/200  | WINDOW BLOCK | 8           | 26          | 5           | 23          | 37.5         | 11.5         |             |             |             |             |              |              |
| R2/200                               | W9/200  | WINDOW BLOCK | 1           | 9           | 1           | 8           | 0.0          | 11.1         | 8           | 26          | 5           | 23          | 37.5         | 11.5         |
| R1/201                               | W3/201  |              | 10          | 29          | 7           | 26          | 30.0         | 10.3         | 10          | 29          | 7           | 26          | 30.0         | 10.3         |
| R2/201                               | W4/201  |              | 11          | 31          | 8           | 28          | 27.3         | 9.7          | 11          | 31          | 8           | 28          | 27.3         | 9.7          |
| R3/201                               | W5/201  |              | 10          | 30          | 7           | 27          | 30.0         | 10.0         |             |             |             |             |              |              |
| R3/201                               | W6/201  |              | 9           | 28          | 6           | 25          | 33.3         | 10.7         |             |             |             |             |              |              |
| R3/201                               | W7/201  |              | 1           | 9           | 1           | 8           | 0.0          | 11.1         | 11          | 32          | 7           | 28          | 36.4         | 12.5         |
| R4/201                               | W8/201  |              | 15          | 39          | 11          | 35          | 26.7         | 10.3         |             |             |             |             |              |              |
| R4/201                               | W9/201  |              | 15          | 37          | 11          | 33          | 26.7         | 10.8         |             |             |             |             |              |              |
| R4/201                               | W10/201 |              | 14          | 38          | 11          | 35          | 21.4         | 7.9          | 15          | 42          | 11          | 38          | 26.7         | 9.5          |



| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R5/201 | W11/201 |          | 14          | 32          | 9           | 27          | 35.7         | 15.6         |             |             |             |             |              |              |
| R5/201 | W12/201 |          | 15          | 41          | 9           | 35          | 40.0         | 14.6         | 15          | 41          | 9           | 35          | 40.0         | 14.6         |
| R1/202 | W3/202  |          | 11          | 31          | 9           | 28          | 18.2         | 9.7          | 11          | 31          | 9           | 28          | 18.2         | 9.7          |
| R2/202 | W4/202  |          | 12          | 34          | 10          | 32          | 16.7         | 5.9          | 12          | 34          | 10          | 32          | 16.7         | 5.9          |
| R3/202 | W5/202  |          | 10          | 30          | 9           | 29          | 10.0         | 3.3          |             |             |             |             |              |              |
| R3/202 | W6/202  |          | 10          | 30          | 8           | 28          | 20.0         | 6.7          |             |             |             |             |              |              |
| R3/202 | W7/202  |          | 1           | 10          | 1           | 9           | 0.0          | 10.0         | 11          | 33          | 9           | 31          | 18.2         | 6.1          |
| R4/202 | W8/202  |          | 16          | 42          | 13          | 39          | 18.8         | 7.1          |             |             |             |             |              |              |
| R4/202 | W9/202  |          | 16          | 39          | 13          | 36          | 18.8         | 7.7          |             |             |             |             |              |              |
| R4/202 | W10/202 |          | 16          | 40          | 13          | 37          | 18.8         | 7.5          | 16          | 43          | 13          | 40          | 18.8         | 7.0          |
| R5/202 | W11/202 |          | 16          | 34          | 12          | 30          | 25.0         | 11.8         |             |             |             |             |              |              |
| R5/202 | W12/202 |          | 17          | 44          | 12          | 39          | 29.4         | 11.4         | 17          | 44          | 12          | 39          | 29.4         | 11.4         |
| R1/203 | W3/203  |          | 12          | 33          | 11          | 32          | 8.3          | 3.0          |             |             |             |             |              |              |
| R1/203 | W4/203  |          | 12          | 34          | 11          | 33          | 8.3          | 2.9          | 12          | 34          | 11          | 33          | 8.3          | 2.9          |
| R2/203 | W5/203  |          | 14          | 38          | 12          | 36          | 14.3         | 5.3          | 14          | 38          | 12          | 36          | 14.3         | 5.3          |
| R3/203 | W6/203  |          | 12          | 34          | 11          | 33          | 8.3          | 2.9          |             |             |             |             |              |              |
| R3/203 | W7/203  |          | 12          | 33          | 9           | 30          | 25.0         | 9.1          |             |             |             |             |              |              |
| R3/203 | W8/203  |          | 2           | 14          | 2           | 12          | 0.0          | 14.3         | 13          | 38          | 11          | 36          | 15.4         | 5.3          |
| R4/203 | W9/203  |          | 18          | 45          | 15          | 42          | 16.7         | 6.7          |             |             |             |             |              |              |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R4/203 | W10/203 |          | 17          | 41          | 14          | 38          | 17.6         | 7.3          |             |             |             |             |              |              |
| R4/203 | W11/203 |          | 18          | 43          | 14          | 39          | 22.2         | 9.3          | 19          | 47          | 15          | 43          | 21.1         | 8.5          |
| R5/203 | W12/203 |          | 18          | 36          | 13          | 31          | 27.8         | 13.9         |             |             |             |             |              |              |
| R5/203 | W13/203 |          | 19          | 47          | 14          | 42          | 26.3         | 10.6         | 19          | 47          | 14          | 42          | 26.3         | 10.6         |
| R1/204 | W3/204  |          | 12          | 36          | 11          | 35          | 8.3          | 2.8          | 12          | 36          | 11          | 35          | 8.3          | 2.8          |
| R2/204 | W4/204  |          | 14          | 42          | 13          | 41          | 7.1          | 2.4          | 14          | 42          | 13          | 41          | 7.1          | 2.4          |
| R3/204 | W5/204  |          | 13          | 37          | 12          | 36          | 7.7          | 2.7          |             |             |             |             |              |              |
| R3/204 | W6/204  |          | 12          | 36          | 10          | 34          | 16.7         | 5.6          |             |             |             |             |              |              |
| R3/204 | W7/204  |          | 2           | 16          | 2           | 15          | 0.0          | 6.3          | 14          | 40          | 12          | 38          | 14.3         | 5.0          |
| R4/204 | W8/204  |          | 18          | 46          | 16          | 44          | 11.1         | 4.3          |             |             |             |             |              |              |
| R4/204 | W9/204  |          | 17          | 43          | 15          | 41          | 11.8         | 4.7          |             |             |             |             |              |              |
| R4/204 | W10/204 |          | 18          | 45          | 15          | 42          | 16.7         | 6.7          | 19          | 49          | 16          | 46          | 15.8         | 6.1          |
| R5/204 | W11/204 |          | 18          | 34          | 14          | 30          | 22.2         | 11.8         |             |             |             |             |              |              |
| R5/204 | W12/204 |          | 17          | 45          | 13          | 41          | 23.5         | 8.9          | 19          | 47          | 15          | 43          | 21.1         | 8.5          |
| R1/205 | W3/205  |          | 2           | 18          | 2           | 18          | 0.0          | 0.0          | 2           | 18          | 2           | 18          | 0.0          | 0.0          |
| R2/205 | W4/205  |          | 15          | 45          | 15          | 45          | 0.0          | 0.0          | 15          | 45          | 15          | 45          | 0.0          | 0.0          |
| R3/205 | W5/205  |          | 8           | 34          | 8           | 34          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/205 | W6/205  |          | 2           | 17          | 2           | 17          | 0.0          | 0.0          | 8           | 34          | 8           | 34          | 0.0          | 0.0          |

| Room                                  | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------------------------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                       |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                       |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R4/205                                | W7/205  |          | 17          | 46          | 17          | 46          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/205                                | W8/205  |          | 17          | 43          | 17          | 43          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/205                                | W9/205  |          | 18          | 46          | 17          | 45          | 5.6          | 2.2          | 19          | 50          | 18          | 49          | 5.3          | 2.0          |
| R5/205                                | W10/205 |          | 11          | 35          | 9           | 33          | 18.2         | 5.7          | 11          | 35          | 9           | 33          | 18.2         | 5.7          |
| R1/210                                | W1/210  | HALL     | 11          | 33          | 6           | 28          | 45.5         | 15.2         |             |             |             |             |              |              |
| R1/210                                | W2/210  | HALL     | 11          | 31          | 8           | 28          | 27.3         | 9.7          |             |             |             |             |              |              |
| R1/210                                | W3/210  | HALL     | 8           | 26          | 3           | 21          | 62.5         | 19.2         |             |             |             |             |              |              |
| R1/210                                | W4/210  | HALL     | 10          | 31          | 5           | 25          | 50.0         | 19.4         |             |             |             |             |              |              |
| R1/210                                | W5/210  | HALL     | 8           | 26          | 5           | 23          | 37.5         | 11.5         |             |             |             |             |              |              |
| R1/210                                | W6/210  | HALL     | 10          | 30          | 7           | 26          | 30.0         | 13.3         |             |             |             |             |              |              |
| R1/210                                | W7/210  | HALL     | 10          | 28          | 7           | 25          | 30.0         | 10.7         |             |             |             |             |              |              |
| R1/210                                | W8/210  | HALL     | 8           | 25          | 5           | 22          | 37.5         | 12.0         |             |             |             |             |              |              |
| R1/210                                | W9/210  | HALL     | 10          | 28          | 7           | 24          | 30.0         | 14.3         |             |             |             |             |              |              |
| R1/210                                | W10/210 | HALL     | 13          | 34          | 10          | 31          | 23.1         | 8.8          | 13          | 37          | 10          | 34          | 23.1         | 8.1          |
| R2/210                                | W11/210 |          | 12          | 31          | 9           | 28          | 25.0         | 9.7          |             |             |             |             |              |              |
| R2/210                                | W12/210 |          | 12          | 37          | 9           | 34          | 25.0         | 8.1          | 13          | 39          | 9           | 35          | 30.8         | 10.3         |
| 28-51 SINCLAIR HOUSE, SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/300                                | W1/300  |          | 12          | 39          | 7           | 32          | 41.7         | 17.9         | 12          | 39          | 7           | 32          | 41.7         | 17.9         |
| R2/300                                | W2/300  |          | 11          | 40          | 6           | 33          | 45.5         | 17.5         |             |             |             |             |              |              |
| R2/300                                | W3/300  |          | 11          | 39          | 6           | 32          | 45.5         | 17.9         |             |             |             |             |              |              |
| R2/300                                | W4/300  |          | 11          | 37          | 6           | 29          | 45.5         | 21.6         | 11          | 42          | 6           | 35          | 45.5         | 16.7         |

| Room   | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R3/300 | W5/300  |              | 6           | 26          | 2           | 19          | 66.7         | 26.9         | 6           | 26          | 2           | 19          | 66.7         | 26.9         |
| R4/300 | W6/300  |              | 10          | 39          | 7           | 29          | 30.0         | 25.6         | 10          | 39          | 7           | 29          | 30.0         | 25.6         |
| R5/300 | W7/300  |              | 10          | 41          | 6           | 30          | 40.0         | 26.8         |             |             |             |             |              |              |
| R5/300 | W8/300  |              | 9           | 40          | 6           | 29          | 33.3         | 27.5         |             |             |             |             |              |              |
| R5/300 | W9/300  |              | 8           | 39          | 6           | 29          | 25.0         | 25.6         | 10          | 41          | 6           | 30          | 40.0         | 26.8         |
| R6/300 | W10/300 |              | 7           | 38          | 6           | 29          | 14.3         | 23.7         | 7           | 38          | 6           | 29          | 14.3         | 23.7         |
| R1/301 | W1/301  |              | 12          | 38          | 7           | 33          | 41.7         | 13.2         | 12          | 38          | 7           | 33          | 41.7         | 13.2         |
| R2/301 | W2/301  |              | 13          | 39          | 7           | 33          | 46.2         | 15.4         |             |             |             |             |              |              |
| R2/301 | W3/301  |              | 12          | 39          | 7           | 34          | 41.7         | 12.8         |             |             |             |             |              |              |
| R2/301 | W4/301  |              | 11          | 35          | 6           | 30          | 45.5         | 14.3         | 13          | 42          | 7           | 36          | 46.2         | 14.3         |
| R3/301 | W5/301  |              | 8           | 30          | 3           | 24          | 62.5         | 20.0         | 8           | 30          | 3           | 24          | 62.5         | 20.0         |
| R4/301 | W6/301  |              | 13          | 42          | 10          | 35          | 23.1         | 16.7         | 13          | 42          | 10          | 35          | 23.1         | 16.7         |
| R5/301 | W7/301  | WINDOW BLOCK | 10          | 40          | 7           | 34          | 30.0         | 15.0         |             |             |             |             |              |              |
| R5/301 | W8/301  | WINDOW BLOCK | 8           | 35          | 5           | 29          | 37.5         | 17.1         | 10          | 40          | 7           | 34          | 30.0         | 15.0         |
| R6/301 | W9/301  |              | 9           | 39          | 8           | 35          | 11.1         | 10.3         |             |             |             |             |              |              |
| R6/301 | W10/301 |              | 6           | 33          | 4           | 28          | 33.3         | 15.2         | 10          | 40          | 8           | 35          | 20.0         | 12.5         |
| R7/301 | W11/301 |              | 8           | 40          | 7           | 35          | 12.5         | 12.5         | 8           | 40          | 7           | 35          | 12.5         | 12.5         |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/302 | W1/302  |          | 14          | 41          | 11          | 38          | 21.4         | 7.3          | 14          | 41          | 11          | 38          | 21.4         | 7.3          |
| R2/302 | W2/302  |          | 15          | 46          | 11          | 42          | 26.7         | 8.7          |             |             |             |             |              |              |
| R2/302 | W3/302  |          | 13          | 44          | 8           | 39          | 38.5         | 11.4         |             |             |             |             |              |              |
| R2/302 | W4/302  |          | 13          | 41          | 9           | 37          | 30.8         | 9.8          | 15          | 48          | 11          | 44          | 26.7         | 8.3          |
| R3/302 | W5/302  |          | 9           | 32          | 4           | 27          | 55.6         | 15.6         | 9           | 32          | 4           | 27          | 55.6         | 15.6         |
| R4/302 | W6/302  |          | 15          | 45          | 11          | 40          | 26.7         | 11.1         | 15          | 45          | 11          | 40          | 26.7         | 11.1         |
| R5/302 | W7/302  |          | 14          | 44          | 9           | 36          | 35.7         | 18.2         |             |             |             |             |              |              |
| R5/302 | W8/302  |          | 11          | 39          | 7           | 32          | 36.4         | 17.9         | 14          | 45          | 9           | 37          | 35.7         | 17.8         |
| R6/302 | W9/302  |          | 13          | 44          | 9           | 37          | 30.8         | 15.9         |             |             |             |             |              |              |
| R6/302 | W10/302 |          | 12          | 43          | 9           | 37          | 25.0         | 14.0         | 13          | 44          | 9           | 37          | 30.8         | 15.9         |
| R7/302 | W11/302 |          | 11          | 43          | 9           | 38          | 18.2         | 11.6         | 11          | 43          | 9           | 38          | 18.2         | 11.6         |
| R1/303 | W1/303  |          | 18          | 46          | 12          | 40          | 33.3         | 13.0         | 18          | 46          | 12          | 40          | 33.3         | 13.0         |
| R2/303 | W2/303  |          | 19          | 50          | 13          | 44          | 31.6         | 12.0         |             |             |             |             |              |              |
| R2/303 | W3/303  |          | 17          | 48          | 11          | 42          | 35.3         | 12.5         |             |             |             |             |              |              |
| R2/303 | W4/303  |          | 17          | 45          | 11          | 39          | 35.3         | 13.3         | 19          | 52          | 13          | 46          | 31.6         | 11.5         |
| R3/303 | W5/303  |          | 11          | 34          | 6           | 29          | 45.5         | 14.7         | 11          | 34          | 6           | 29          | 45.5         | 14.7         |
| R4/303 | W6/303  |          | 18          | 49          | 14          | 45          | 22.2         | 8.2          | 18          | 49          | 14          | 45          | 22.2         | 8.2          |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R5/303 | W7/303  |          | 17          | 47          | 12          | 41          | 29.4         | 12.8         |             |             |             |             |              |              |
| R5/303 | W8/303  |          | 14          | 42          | 10          | 37          | 28.6         | 11.9         | 17          | 48          | 12          | 42          | 29.4         | 12.5         |
| R6/303 | W9/303  |          | 17          | 49          | 14          | 45          | 17.6         | 8.2          |             |             |             |             |              |              |
| R6/303 | W10/303 |          | 16          | 48          | 12          | 42          | 25.0         | 12.5         | 17          | 49          | 14          | 45          | 17.6         | 8.2          |
| R7/303 | W11/303 |          | 16          | 49          | 12          | 42          | 25.0         | 14.3         | 16          | 49          | 12          | 42          | 25.0         | 14.3         |
| R1/304 | W1/304  |          | 19          | 48          | 12          | 41          | 36.8         | 14.6         | 19          | 48          | 12          | 41          | 36.8         | 14.6         |
| R2/304 | W2/304  |          | 20          | 52          | 13          | 45          | 35.0         | 13.5         |             |             |             |             |              |              |
| R2/304 | W3/304  |          | 19          | 50          | 12          | 43          | 36.8         | 14.0         |             |             |             |             |              |              |
| R2/304 | W4/304  |          | 19          | 48          | 13          | 42          | 31.6         | 12.5         | 20          | 54          | 14          | 48          | 30.0         | 11.1         |
| R3/304 | W5/304  |          | 14          | 37          | 8           | 31          | 42.9         | 16.2         | 14          | 37          | 8           | 31          | 42.9         | 16.2         |
| R4/304 | W6/304  |          | 21          | 53          | 15          | 47          | 28.6         | 11.3         | 21          | 53          | 15          | 47          | 28.6         | 11.3         |
| R5/304 | W7/304  |          | 20          | 51          | 13          | 44          | 35.0         | 13.7         |             |             |             |             |              |              |
| R5/304 | W8/304  |          | 17          | 46          | 11          | 40          | 35.3         | 13.0         | 20          | 52          | 13          | 45          | 35.0         | 13.5         |
| R6/304 | W9/304  |          | 21          | 54          | 15          | 48          | 28.6         | 11.1         |             |             |             |             |              |              |
| R6/304 | W10/304 |          | 19          | 52          | 14          | 46          | 26.3         | 11.5         | 21          | 54          | 15          | 48          | 28.6         | 11.1         |
| R7/304 | W11/304 |          | 19          | 50          | 14          | 43          | 26.3         | 14.0         | 19          | 50          | 14          | 43          | 26.3         | 14.0         |
| R1/305 | W1/305  |          | 13          | 36          | 10          | 32          | 23.1         | 11.1         | 13          | 36          | 10          | 32          | 23.1         | 11.1         |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/305 | W2/305  |          | 20          | 50          | 16          | 46          | 20.0         | 8.0          |             |             |             |             |              |              |
| R2/305 | W3/305  |          | 20          | 49          | 16          | 45          | 20.0         | 8.2          |             |             |             |             |              |              |
| R2/305 | W4/305  |          | 19          | 50          | 15          | 46          | 21.1         | 8.0          | 20          | 54          | 16          | 50          | 20.0         | 7.4          |
| R3/305 | W5/305  |          | 10          | 29          | 6           | 25          | 40.0         | 13.8         | 10          | 29          | 6           | 25          | 40.0         | 13.8         |
| R4/305 | W6/305  |          | 22          | 54          | 18          | 50          | 18.2         | 7.4          | 22          | 54          | 18          | 50          | 18.2         | 7.4          |
| R5/305 | W7/305  |          | 17          | 43          | 12          | 38          | 29.4         | 11.6         |             |             |             |             |              |              |
| R5/305 | W8/305  |          | 12          | 33          | 7           | 28          | 41.7         | 15.2         | 17          | 44          | 12          | 39          | 29.4         | 11.4         |
| R6/305 | W9/305  |          | 23          | 52          | 18          | 47          | 21.7         | 9.6          |             |             |             |             |              |              |
| R6/305 | W10/305 |          | 24          | 55          | 18          | 49          | 25.0         | 10.9         | 24          | 55          | 19          | 50          | 20.8         | 9.1          |
| R7/305 | W11/305 |          | 15          | 43          | 9           | 36          | 40.0         | 16.3         | 15          | 43          | 9           | 36          | 40.0         | 16.3         |
| R1/310 | W1/310  | HALL     | 11          | 36          | 7           | 29          | 36.4         | 19.4         |             |             |             |             |              |              |
| R1/310 | W2/310  | HALL     | 6           | 30          | 3           | 21          | 50.0         | 30.0         |             |             |             |             |              |              |
| R1/310 | W3/310  | HALL     | 7           | 32          | 4           | 22          | 42.9         | 31.3         |             |             |             |             |              |              |
| R1/310 | W4/310  | HALL     | 6           | 30          | 3           | 23          | 50.0         | 23.3         |             |             |             |             |              |              |
| R1/310 | W5/310  | HALL     | 7           | 32          | 4           | 25          | 42.9         | 21.9         |             |             |             |             |              |              |
| R1/310 | W6/310  | HALL     | 7           | 30          | 3           | 22          | 57.1         | 26.7         |             |             |             |             |              |              |
| R1/310 | W7/310  | HALL     | 4           | 26          | 1           | 16          | 75.0         | 38.5         |             |             |             |             |              |              |
| R1/310 | W8/310  | HALL     | 4           | 26          | 1           | 17          | 75.0         | 34.6         |             |             |             |             |              |              |
| R1/310 | W9/310  | HALL     | 8           | 31          | 4           | 23          | 50.0         | 25.8         |             |             |             |             |              |              |
| R1/310 | W10/310 | HALL     | 4           | 26          | 1           | 18          | 75.0         | 30.8         |             |             |             |             |              |              |
| R1/310 | W11/310 | HALL     | 11          | 40          | 8           | 32          | 27.3         | 20.0         | 12          | 41          | 8           | 33          | 33.3         | 19.5         |

|                                       |         |             | Window         |                |                |                |                 |                 | Room           |                |                |                |                 |                 |
|---------------------------------------|---------|-------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
|                                       |         |             | Existing       |                | Proposed       |                | Winter<br>%Loss | Annual<br>%Loss | Existing       |                | Proposed       |                | Winter<br>%Loss | Annual<br>%Loss |
|                                       |         |             | Winter<br>APSH | Annual<br>APSH | Winter<br>APSH | Annual<br>APSH |                 |                 | Winter<br>APSH | Annual<br>APSH | Winter<br>APSH | Annual<br>APSH |                 |                 |
| Room                                  | Window  | Room<br>Use | Winter<br>APSH | Annual<br>APSH | Winter<br>APSH | Annual<br>APSH | Winter<br>%Loss | Annual<br>%Loss | Winter<br>APSH | Annual<br>APSH | Winter<br>APSH | Annual<br>APSH | Winter<br>%Loss | Annual<br>%Loss |
| 52-75 SINCLAIR HOUSE, SANDWICH STREET |         |             |                |                |                |                |                 |                 |                |                |                |                |                 |                 |
| R1/400                                | W1/400  |             | 6              | 37             | 5              | 28             | 16.7            | 24.3            | 6              | 37             | 5              | 28             | 16.7            | 24.3            |
| R2/400                                | W2/400  |             | 5              | 35             | 4              | 26             | 20.0            | 25.7            |                |                |                |                |                 |                 |
| R2/400                                | W3/400  |             | 5              | 33             | 4              | 25             | 20.0            | 24.2            |                |                |                |                |                 |                 |
| R2/400                                | W4/400  |             | 5              | 30             | 4              | 24             | 20.0            | 20.0            | 5              | 35             | 4              | 26             | 20.0            | 25.7            |
| R3/400                                | W5/400  |             | 1              | 22             | 1              | 17             | 0.0             | 22.7            | 1              | 22             | 1              | 17             | 0.0             | 22.7            |
| R4/400                                | W6/400  | HALL        | 6              | 29             | 6              | 25             | 0.0             | 13.8            |                |                |                |                |                 |                 |
| R4/400                                | W7/400  | HALL        | 4              | 24             | 4              | 18             | 0.0             | 25.0            |                |                |                |                |                 |                 |
| R4/400                                | W8/400  | HALL        | 4              | 25             | 4              | 19             | 0.0             | 24.0            |                |                |                |                |                 |                 |
| R4/400                                | W9/400  | HALL        | 2              | 20             | 2              | 14             | 0.0             | 30.0            |                |                |                |                |                 |                 |
| R4/400                                | W10/400 | HALL        | 2              | 21             | 2              | 15             | 0.0             | 28.6            |                |                |                |                |                 |                 |
| R4/400                                | W11/400 | HALL        | 2              | 21             | 2              | 16             | 0.0             | 23.8            |                |                |                |                |                 |                 |
| R4/400                                | W12/400 | HALL        | 4              | 24             | 4              | 20             | 0.0             | 16.7            | 6              | 32             | 6              | 27             | 0.0             | 15.6            |
| R5/400                                | W13/400 |             | 6              | 29             | 6              | 26             | 0.0             | 10.3            |                |                |                |                |                 |                 |
| R5/400                                | W14/400 |             | 6              | 28             | 6              | 23             | 0.0             | 17.9            | 6              | 29             | 6              | 26             | 0.0             | 10.3            |
| R6/400                                | W15/400 |             | 6              | 24             | 6              | 22             | 0.0             | 8.3             |                |                |                |                |                 |                 |
| R6/400                                | W16/400 |             | 5              | 24             | 5              | 22             | 0.0             | 8.3             | 6              | 26             | 6              | 23             | 0.0             | 11.5            |
| R7/400                                | W17/400 |             | 4              | 20             | 4              | 19             | 0.0             | 5.0             | 4              | 20             | 4              | 19             | 0.0             | 5.0             |
| R1/401                                | W1/401  |             | 6              | 38             | 5              | 33             | 16.7            | 13.2            | 6              | 38             | 5              | 33             | 16.7            | 13.2            |



| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/401 | W2/401  |          | 7           | 35          | 6           | 31          | 14.3         | 11.4         |             |             |             |             |              |              |
| R2/401 | W3/401  |          | 5           | 34          | 4           | 29          | 20.0         | 14.7         |             |             |             |             |              |              |
| R2/401 | W4/401  |          | 6           | 35          | 5           | 29          | 16.7         | 17.1         | 7           | 36          | 6           | 32          | 14.3         | 11.1         |
| R3/401 | W5/401  |          | 1           | 24          | 1           | 22          | 0.0          | 8.3          | 1           | 24          | 1           | 22          | 0.0          | 8.3          |
| R4/401 | W6/401  |          | 7           | 33          | 7           | 31          | 0.0          | 6.1          | 7           | 33          | 7           | 31          | 0.0          | 6.1          |
| R5/401 | W7/401  |          | 7           | 32          | 7           | 31          | 0.0          | 3.1          |             |             |             |             |              |              |
| R5/401 | W8/401  |          | 7           | 29          | 7           | 28          | 0.0          | 3.4          | 7           | 32          | 7           | 31          | 0.0          | 3.1          |
| R6/401 | W9/401  |          | 6           | 26          | 6           | 27          | 0.0          | -3.8         |             |             |             |             |              |              |
| R6/401 | W10/401 |          | 6           | 28          | 6           | 27          | 0.0          | 3.6          | 7           | 30          | 7           | 29          | 0.0          | 3.3          |
| R7/401 | W11/401 |          | 4           | 24          | 4           | 23          | 0.0          | 4.2          | 4           | 24          | 4           | 23          | 0.0          | 4.2          |
| R1/402 | W1/402  |          | 8           | 41          | 7           | 37          | 12.5         | 9.8          | 8           | 41          | 7           | 37          | 12.5         | 9.8          |
| R2/402 | W2/402  |          | 10          | 43          | 7           | 36          | 30.0         | 16.3         |             |             |             |             |              |              |
| R2/402 | W3/402  |          | 9           | 41          | 6           | 35          | 33.3         | 14.6         |             |             |             |             |              |              |
| R2/402 | W4/402  |          | 8           | 39          | 6           | 34          | 25.0         | 12.8         | 10          | 43          | 7           | 36          | 30.0         | 16.3         |
| R3/402 | W5/402  |          | 3           | 30          | 3           | 27          | 0.0          | 10.0         | 3           | 30          | 3           | 27          | 0.0          | 10.0         |
| R4/402 | W6/402  |          | 9           | 40          | 8           | 38          | 11.1         | 5.0          | 9           | 40          | 8           | 38          | 11.1         | 5.0          |
| R5/402 | W7/402  |          | 9           | 37          | 8           | 37          | 11.1         | 0.0          |             |             |             |             |              |              |
| R5/402 | W8/402  |          | 6           | 32          | 6           | 33          | 0.0          | -3.1         | 9           | 38          | 8           | 37          | 11.1         | 2.6          |

| Room   | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R6/402 | W9/402  |              | 7           | 32          | 7           | 35          | 0.0          | -9.4         |             |             |             |             |              |              |
| R6/402 | W10/402 |              | 9           | 36          | 8           | 35          | 11.1         | 2.8          | 9           | 37          | 8           | 36          | 11.1         | 2.7          |
| R7/402 | W11/402 |              | 7           | 31          | 6           | 32          | 14.3         | -3.2         | 7           | 31          | 6           | 32          | 14.3         | -3.2         |
| R1/403 | W1/403  |              | 13          | 46          | 10          | 41          | 23.1         | 10.9         | 13          | 46          | 10          | 41          | 23.1         | 10.9         |
| R2/403 | W2/403  | WINDOW BLOCK | 13          | 46          | 10          | 41          | 23.1         | 10.9         |             |             |             |             |              |              |
| R2/403 | W3/403  | WINDOW BLOCK | 12          | 45          | 10          | 41          | 16.7         | 8.9          |             |             |             |             |              |              |
| R2/403 | W4/403  | WINDOW BLOCK | 10          | 42          | 9           | 39          | 10.0         | 7.1          | 13          | 46          | 10          | 41          | 23.1         | 10.9         |
| R3/403 | W5/403  |              | 6           | 34          | 5           | 31          | 16.7         | 8.8          | 6           | 34          | 5           | 31          | 16.7         | 8.8          |
| R4/403 | W6/403  |              | 12          | 44          | 12          | 45          | 0.0          | -2.3         | 12          | 44          | 12          | 45          | 0.0          | -2.3         |
| R5/403 | W7/403  |              | 11          | 44          | 11          | 43          | 0.0          | 2.3          |             |             |             |             |              |              |
| R5/403 | W8/403  |              | 8           | 39          | 9           | 39          | -12.5        | 0.0          | 11          | 45          | 11          | 43          | 0.0          | 4.4          |
| R6/403 | W9/403  |              | 10          | 40          | 11          | 43          | -10.0        | -7.5         |             |             |             |             |              |              |
| R6/403 | W10/403 |              | 11          | 44          | 11          | 44          | 0.0          | 0.0          | 11          | 45          | 11          | 44          | 0.0          | 2.2          |
| R7/403 | W11/403 |              | 9           | 41          | 9           | 40          | 0.0          | 2.4          | 9           | 41          | 9           | 40          | 0.0          | 2.4          |
| R1/404 | W1/404  |              | 17          | 47          | 12          | 41          | 29.4         | 12.8         | 17          | 47          | 12          | 41          | 29.4         | 12.8         |
| R2/404 | W2/404  |              | 16          | 49          | 13          | 45          | 18.8         | 8.2          |             |             |             |             |              |              |
| R2/404 | W3/404  |              | 16          | 49          | 13          | 45          | 18.8         | 8.2          |             |             |             |             |              |              |

| Room   | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/404 | W4/404  |              | 15          | 46          | 12          | 42          | 20.0         | 8.7          | 16          | 49          | 13          | 45          | 18.8         | 8.2          |
| R3/404 | W5/404  |              | 10          | 39          | 8           | 36          | 20.0         | 7.7          | 10          | 39          | 8           | 36          | 20.0         | 7.7          |
| R4/404 | W6/404  |              | 16          | 51          | 14          | 48          | 12.5         | 5.9          | 16          | 51          | 14          | 48          | 12.5         | 5.9          |
| R5/404 | W7/404  |              | 15          | 49          | 13          | 47          | 13.3         | 4.1          |             |             |             |             |              |              |
| R5/404 | W8/404  |              | 11          | 43          | 11          | 43          | 0.0          | 0.0          | 15          | 50          | 13          | 47          | 13.3         | 6.0          |
| R6/404 | W9/404  |              | 14          | 49          | 14          | 49          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/404 | W10/404 |              | 13          | 50          | 13          | 48          | 0.0          | 4.0          | 14          | 51          | 14          | 50          | 0.0          | 2.0          |
| R7/404 | W11/404 |              | 11          | 47          | 11          | 44          | 0.0          | 6.4          | 11          | 47          | 11          | 44          | 0.0          | 6.4          |
| R1/405 | W1/405  |              | 15          | 42          | 10          | 36          | 33.3         | 14.3         | 15          | 42          | 10          | 36          | 33.3         | 14.3         |
| R2/405 | W2/405  |              | 19          | 49          | 16          | 45          | 15.8         | 8.2          |             |             |             |             |              |              |
| R2/405 | W3/405  |              | 20          | 51          | 16          | 46          | 20.0         | 9.8          |             |             |             |             |              |              |
| R2/405 | W4/405  |              | 18          | 51          | 17          | 49          | 5.6          | 3.9          | 21          | 54          | 18          | 50          | 14.3         | 7.4          |
| R3/405 | W5/405  |              | 11          | 39          | 9           | 36          | 18.2         | 7.7          | 11          | 39          | 9           | 36          | 18.2         | 7.7          |
| R4/405 | W6/405  |              | 20          | 56          | 17          | 52          | 15.0         | 7.1          | 20          | 56          | 17          | 52          | 15.0         | 7.1          |
| R5/405 | W7/405  | WINDOW BLOCK | 16          | 49          | 14          | 47          | 12.5         | 4.1          |             |             |             |             |              |              |
| R5/405 | W8/405  | WINDOW BLOCK | 8           | 38          | 9           | 38          | -12.5        | 0.0          | 16          | 51          | 14          | 48          | 12.5         | 5.9          |
| R6/405 | W9/405  |              | 16          | 51          | 17          | 50          | -6.3         | 2.0          | 16          | 51          | 17          | 50          | -6.3         | 2.0          |

| Room                                  | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------------------------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                       |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                       |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R7/405                                | W10/405 |          | 11          | 44          | 12          | 42          | -9.1         | 4.5          | 11          | 44          | 12          | 42          | -9.1         | 4.5          |
| 76-93 SINCLAIR HOUSE, SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/500                                | W1/500  |          | 3           | 15          | 3           | 15          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/500                                | W2/500  |          | 0           | 2           | 0           | 2           | -            | 0.0          | 3           | 16          | 3           | 16          | 0.0          | 0.0          |
| R2/500                                | W3/500  | HALL     | 6           | 21          | 6           | 21          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W4/500  | HALL     | 6           | 21          | 6           | 21          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W5/500  | HALL     | 4           | 16          | 4           | 16          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W6/500  | HALL     | 4           | 16          | 4           | 16          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W7/500  | HALL     | 4           | 12          | 4           | 12          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W8/500  | HALL     | 2           | 12          | 2           | 12          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W9/500  | HALL     | 2           | 12          | 2           | 12          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/500                                | W10/500 | HALL     | 2           | 10          | 2           | 10          | 0.0          | 0.0          | 6           | 22          | 6           | 22          | 0.0          | 0.0          |
| R3/500                                | W11/500 |          | 6           | 22          | 6           | 22          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/500                                | W12/500 |          | 6           | 22          | 6           | 22          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/500                                | W13/500 |          | 6           | 22          | 6           | 22          | 0.0          | 0.0          | 6           | 22          | 6           | 22          | 0.0          | 0.0          |
| R4/500                                | W14/500 |          | 5           | 20          | 5           | 20          | 0.0          | 0.0          | 5           | 20          | 5           | 20          | 0.0          | 0.0          |
| R5/500                                | W15/500 |          | 5           | 18          | 5           | 18          | 0.0          | 0.0          | 5           | 18          | 5           | 18          | 0.0          | 0.0          |
| R1/501                                | W1/501  |          | 3           | 18          | 3           | 19          | 0.0          | -5.6         |             |             |             |             |              |              |
| R1/501                                | W2/501  |          | 0           | 3           | 0           | 3           | -            | 0.0          | 3           | 18          | 3           | 19          | 0.0          | -5.6         |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/501 | W3/501  |          | 7           | 26          | 7           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/501 | W4/501  |          | 7           | 26          | 7           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/501 | W5/501  |          | 7           | 26          | 7           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/501 | W6/501  |          | 7           | 25          | 7           | 25          | 0.0          | 0.0          | 7           | 26          | 7           | 26          | 0.0          | 0.0          |
| R3/501 | W7/501  |          | 7           | 25          | 7           | 25          | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/501 | W8/501  |          | 5           | 23          | 5           | 23          | 0.0          | 0.0          | 7           | 25          | 7           | 25          | 0.0          | 0.0          |
| R4/501 | W9/501  |          | 6           | 22          | 4           | 20          | 33.3         | 9.1          | 6           | 22          | 4           | 20          | 33.3         | 9.1          |
| R5/501 | W10/501 |          | 5           | 21          | 4           | 20          | 20.0         | 4.8          | 5           | 21          | 4           | 20          | 20.0         | 4.8          |
| R1/502 | W1/502  |          | 6           | 26          | 5           | 27          | 16.7         | -3.8         |             |             |             |             |              |              |
| R1/502 | W2/502  |          | 0           | 7           | 0           | 7           | -            | 0.0          | 6           | 26          | 5           | 27          | 16.7         | -3.8         |
| R2/502 | W3/502  |          | 9           | 32          | 8           | 32          | 11.1         | 0.0          |             |             |             |             |              |              |
| R2/502 | W4/502  |          | 8           | 31          | 8           | 31          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/502 | W5/502  |          | 8           | 31          | 8           | 31          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/502 | W6/502  |          | 8           | 31          | 8           | 31          | 0.0          | 0.0          | 9           | 32          | 8           | 32          | 11.1         | 0.0          |
| R3/502 | W7/502  |          | 8           | 31          | 9           | 32          | -12.5        | -3.2         |             |             |             |             |              |              |
| R3/502 | W8/502  |          | 7           | 30          | 8           | 31          | -14.3        | -3.3         | 8           | 31          | 9           | 32          | -12.5        | -3.2         |
| R4/502 | W9/502  |          | 9           | 31          | 8           | 30          | 11.1         | 3.2          | 9           | 31          | 8           | 30          | 11.1         | 3.2          |
| R5/502 | W10/502 |          | 6           | 27          | 7           | 28          | -16.7        | -3.7         | 6           | 27          | 7           | 28          | -16.7        | -3.7         |
| R1/503 | W1/503  |          | 8           | 33          | 8           | 35          | 0.0          | -6.1         |             |             |             |             |              |              |

| Room   | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/503 | W2/503  |          | 0           | 13          | 0           | 14          | -            | -7.7         | 8           | 34          | 8           | 36          | 0.0          | -5.9         |
| R2/503 | W3/503  |          | 11          | 37          | 12          | 43          | -9.1         | -16.2        |             |             |             |             |              |              |
| R2/503 | W4/503  |          | 11          | 37          | 12          | 41          | -9.1         | -10.8        |             |             |             |             |              |              |
| R2/503 | W5/503  |          | 11          | 37          | 12          | 42          | -9.1         | -13.5        |             |             |             |             |              |              |
| R2/503 | W6/503  |          | 11          | 37          | 12          | 42          | -9.1         | -13.5        | 11          | 37          | 12          | 43          | -9.1         | -16.2        |
| R3/503 | W7/503  |          | 10          | 36          | 11          | 39          | -10.0        | -8.3         |             |             |             |             |              |              |
| R3/503 | W8/503  |          | 9           | 37          | 10          | 39          | -11.1        | -5.4         | 10          | 38          | 11          | 40          | -10.0        | -5.3         |
| R4/503 | W9/503  |          | 11          | 41          | 11          | 41          | 0.0          | 0.0          | 11          | 41          | 11          | 41          | 0.0          | 0.0          |
| R5/503 | W10/503 |          | 8           | 36          | 9           | 37          | -12.5        | -2.8         | 8           | 36          | 9           | 37          | -12.5        | -2.8         |
| R1/504 | W1/504  |          | 10          | 40          | 10          | 40          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/504 | W2/504  |          | 0           | 18          | 0           | 18          | -            | 0.0          | 10          | 41          | 10          | 41          | 0.0          | 0.0          |
| R2/504 | W3/504  |          | 14          | 47          | 14          | 48          | 0.0          | -2.1         |             |             |             |             |              |              |
| R2/504 | W4/504  |          | 14          | 47          | 14          | 48          | 0.0          | -2.1         |             |             |             |             |              |              |
| R2/504 | W5/504  |          | 14          | 47          | 14          | 48          | 0.0          | -2.1         |             |             |             |             |              |              |
| R2/504 | W6/504  |          | 14          | 47          | 14          | 48          | 0.0          | -2.1         | 14          | 47          | 14          | 48          | 0.0          | -2.1         |
| R3/504 | W7/504  |          | 13          | 38          | 13          | 40          | 0.0          | -5.3         |             |             |             |             |              |              |
| R3/504 | W8/504  |          | 12          | 42          | 12          | 45          | 0.0          | -7.1         | 13          | 43          | 13          | 47          | 0.0          | -9.3         |
| R4/504 | W9/504  |          | 13          | 46          | 13          | 47          | 0.0          | -2.2         | 13          | 46          | 13          | 47          | 0.0          | -2.2         |
| R5/504 | W10/504 |          | 11          | 43          | 11          | 44          | 0.0          | -2.3         | 11          | 43          | 11          | 44          | 0.0          | -2.3         |

| Room                                                | Window | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------------------------------------|--------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                                     |        |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                                     |        |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/505                                              | W1/505 |          | 11          | 43          | 10          | 41          | 9.1          | 4.7          | 11          | 43          | 10          | 41          | 9.1          | 4.7          |
| R2/505                                              | W2/505 |          | 17          | 54          | 17          | 53          | 0.0          | 1.9          |             |             |             |             |              |              |
| R2/505                                              | W3/505 |          | 17          | 54          | 17          | 53          | 0.0          | 1.9          |             |             |             |             |              |              |
| R2/505                                              | W4/505 |          | 17          | 55          | 18          | 55          | -5.9         | 0.0          |             |             |             |             |              |              |
| R2/505                                              | W5/505 |          | 17          | 54          | 17          | 54          | 0.0          | 0.0          | 17          | 55          | 18          | 55          | -5.9         | 0.0          |
| R3/505                                              | W6/505 |          | 12          | 44          | 13          | 45          | -8.3         | -2.3         | 12          | 44          | 13          | 45          | -8.3         | -2.3         |
| R4/505                                              | W7/505 |          | 17          | 55          | 17          | 55          | 0.0          | 0.0          | 17          | 55          | 17          | 55          | 0.0          | 0.0          |
| R5/505                                              | W8/505 |          | 12          | 47          | 13          | 48          | -8.3         | -2.1         | 12          | 47          | 13          | 48          | -8.3         | -2.1         |
| CHURCH & HOSTEL, SANDWICH STREET / 70 THANET STREET |        |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/600                                              | W1/600 | ENTRANCE | 9           | 25          | 8           | 20          | 11.1         | 20.0         |             |             |             |             |              |              |
| R1/600                                              | W2/600 | ENTRANCE | 8           | 24          | 7           | 18          | 12.5         | 25.0         |             |             |             |             |              |              |
| R1/600                                              | W3/600 | ENTRANCE | 9           | 30          | 8           | 25          | 11.1         | 16.7         | 9           | 31          | 8           | 25          | 11.1         | 19.4         |
| R1/601                                              | W1/601 | LKD      | 2           | 17          | 2           | 17          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/601                                              | W3/601 | LKD      | 8           | 28          | 7           | 26          | 12.5         | 7.1          |             |             |             |             |              |              |
| R1/601                                              | W4/601 | LKD      | 1           | 15          | 2           | 15          | -100.0       | 0.0          | 8           | 29          | 8           | 28          | 0.0          | 3.4          |
| R2/601                                              | W6/601 | BEDROOM  | 7           | 27          | 7           | 26          | 0.0          | 3.7          |             |             |             |             |              |              |
| R2/601                                              | W7/601 | BEDROOM  | 1           | 15          | 2           | 15          | -100.0       | 0.0          | 7           | 27          | 8           | 27          | -14.3        | 0.0          |
| R3/601                                              | W9/601 | BEDROOM  | 8           | 29          | 7           | 26          | 12.5         | 10.3         |             |             |             |             |              |              |

| Room   | Window  | Room Use   | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |            | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |            | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R3/601 | W10/601 | BEDROOM    | 4           | 19          | 2           | 15          | 50.0         | 21.1         | 10          | 31          | 8           | 27          | 20.0         | 12.9         |
| R4/601 | W12/601 | DINING     | 10          | 31          | 7           | 26          | 30.0         | 16.1         |             |             |             |             |              |              |
| R4/601 | W13/601 | DINING     | 4           | 22          | 2           | 15          | 50.0         | 31.8         | 10          | 34          | 8           | 27          | 20.0         | 20.6         |
| R5/601 | W15/601 | LIVINGROOM | 10          | 33          | 7           | 26          | 30.0         | 21.2         |             |             |             |             |              |              |
| R5/601 | W16/601 | LIVINGROOM | 4           | 21          | 3           | 16          | 25.0         | 23.8         |             |             |             |             |              |              |
| R5/601 | W18/601 | LIVINGROOM | 10          | 33          | 9           | 28          | 10.0         | 15.2         |             |             |             |             |              |              |
| R5/601 | W19/601 | LIVINGROOM | 10          | 33          | 9           | 30          | 10.0         | 9.1          | 10          | 36          | 9           | 30          | 10.0         | 16.7         |
| R1/602 | W1/602  | LKD        | 3           | 22          | 3           | 23          | 0.0          | -4.5         |             |             |             |             |              |              |
| R1/602 | W3/602  | LKD        | 10          | 33          | 9           | 32          | 10.0         | 3.0          |             |             |             |             |              |              |
| R1/602 | W4/602  | LKD        | 4           | 21          | 5           | 22          | -25.0        | -4.8         | 10          | 34          | 11          | 36          | -10.0        | -5.9         |
| R2/602 | W6/602  | BEDROOM    | 9           | 32          | 10          | 33          | -11.1        | -3.1         |             |             |             |             |              |              |
| R2/602 | W7/602  | BEDROOM    | 3           | 20          | 5           | 22          | -66.7        | -10.0        | 9           | 33          | 11          | 35          | -22.2        | -6.1         |
| R3/602 | W9/602  | BEDROOM    | 9           | 33          | 10          | 33          | -11.1        | 0.0          |             |             |             |             |              |              |
| R3/602 | W10/602 | BEDROOM    | 5           | 23          | 5           | 22          | 0.0          | 4.3          | 11          | 36          | 11          | 35          | 0.0          | 2.8          |
| R4/602 | W12/602 | DINING     | 10          | 34          | 10          | 33          | 0.0          | 2.9          |             |             |             |             |              |              |
| R4/602 | W13/602 | DINING     | 4           | 22          | 5           | 22          | -25.0        | 0.0          | 10          | 35          | 11          | 35          | -10.0        | 0.0          |
| R5/602 | W15/602 | LIVINGROOM | 10          | 35          | 10          | 33          | 0.0          | 5.7          |             |             |             |             |              |              |
| R5/602 | W16/602 | LIVINGROOM | 5           | 22          | 5           | 22          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/602 | W18/602 | LIVINGROOM | 11          | 37          | 11          | 34          | 0.0          | 8.1          |             |             |             |             |              |              |
| R5/602 | W19/602 | LIVINGROOM | 11          | 36          | 11          | 36          | 0.0          | 0.0          | 11          | 39          | 11          | 37          | 0.0          | 5.1          |



| Room   | Window  | Room Use   | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------|---------|------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|        |         |            | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|        |         |            | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/603 | W1/603  | LKD        | 5           | 30          | 5           | 30          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/603 | W3/603  | LKD        | 12          | 38          | 12          | 38          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/603 | W4/603  | LKD        | 6           | 25          | 6           | 25          | 0.0          | 0.0          | 12          | 42          | 12          | 42          | 0.0          | 0.0          |
| R2/603 | W6/603  | BEDROOM    | 11          | 37          | 12          | 38          | -9.1         | -2.7         |             |             |             |             |              |              |
| R2/603 | W7/603  | BEDROOM    | 5           | 24          | 6           | 25          | -20.0        | -4.2         | 11          | 39          | 12          | 40          | -9.1         | -2.6         |
| R3/603 | W9/603  | BEDROOM    | 10          | 37          | 12          | 38          | -20.0        | -2.7         |             |             |             |             |              |              |
| R3/603 | W10/603 | BEDROOM    | 5           | 24          | 6           | 25          | -20.0        | -4.2         | 11          | 39          | 12          | 40          | -9.1         | -2.6         |
| R4/603 | W12/603 | DINING     | 12          | 40          | 12          | 38          | 0.0          | 5.0          |             |             |             |             |              |              |
| R4/603 | W13/603 | DINING     | 6           | 26          | 6           | 25          | 0.0          | 3.8          | 12          | 41          | 12          | 40          | 0.0          | 2.4          |
| R5/603 | W15/603 | LIVINGROOM | 13          | 43          | 12          | 38          | 7.7          | 11.6         |             |             |             |             |              |              |
| R5/603 | W16/603 | LIVINGROOM | 7           | 27          | 7           | 26          | 0.0          | 3.7          |             |             |             |             |              |              |
| R5/603 | W18/603 | LIVINGROOM | 12          | 41          | 12          | 39          | 0.0          | 4.9          |             |             |             |             |              |              |
| R5/603 | W19/603 | LIVINGROOM | 11          | 38          | 13          | 40          | -18.2        | -5.3         | 13          | 45          | 13          | 44          | 0.0          | 2.2          |
| R1/604 | W1/604  | LKD        | 6           | 33          | 7           | 36          | -16.7        | -9.1         |             |             |             |             |              |              |
| R1/604 | W3/604  | LKD        | 13          | 44          | 14          | 46          | -7.7         | -4.5         |             |             |             |             |              |              |
| R1/604 | W4/604  | LKD        | 7           | 26          | 8           | 28          | -14.3        | -7.7         | 13          | 45          | 14          | 48          | -7.7         | -6.7         |
| R2/604 | W6/604  | BEDROOM    | 13          | 45          | 14          | 46          | -7.7         | -2.2         |             |             |             |             |              |              |
| R2/604 | W7/604  | BEDROOM    | 8           | 28          | 8           | 28          | 0.0          | 0.0          | 14          | 47          | 14          | 47          | 0.0          | 0.0          |
| R3/604 | W9/604  | BEDROOM    | 13          | 45          | 14          | 46          | -7.7         | -2.2         |             |             |             |             |              |              |
| R3/604 | W10/604 | BEDROOM    | 8           | 28          | 8           | 28          | 0.0          | 0.0          | 14          | 47          | 14          | 47          | 0.0          | 0.0          |

| Room    | Window  | Room Use   | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |            | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |            | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R4/604  | W12/604 | DINING     | 15          | 47          | 14          | 46          | 6.7          | 2.1          |             |             |             |             |              |              |
| R4/604  | W13/604 | DINING     | 8           | 28          | 8           | 28          | 0.0          | 0.0          | 15          | 48          | 14          | 47          | 6.7          | 2.1          |
| R5/604  | W15/604 | LIVINGROOM | 15          | 48          | 15          | 48          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/604  | W16/604 | LIVINGROOM | 8           | 28          | 9           | 29          | -12.5        | -3.6         |             |             |             |             |              |              |
| R5/604  | W18/604 | LIVINGROOM | 14          | 47          | 15          | 48          | -7.1         | -2.1         |             |             |             |             |              |              |
| R5/604  | W19/604 | LIVINGROOM | 13          | 44          | 15          | 46          | -15.4        | -4.5         | 15          | 54          | 15          | 53          | 0.0          | 1.9          |
| R1/605  | W1/605  |            | 23          | 81          | 23          | 81          | 0.0          | 0.0          | 23          | 81          | 23          | 81          | 0.0          | 0.0          |
| R2/605  | W3/605  | DINING     | 13          | 44          | 14          | 45          | -7.7         | -2.3         | 13          | 44          | 14          | 45          | -7.7         | -2.3         |
| R3/605  | W4/605  | BEDROOM    | 13          | 43          | 14          | 44          | -7.7         | -2.3         | 13          | 43          | 14          | 44          | -7.7         | -2.3         |
| R4/605  | W5/605  | BEDROOM    | 14          | 44          | 14          | 44          | 0.0          | 0.0          | 14          | 44          | 14          | 44          | 0.0          | 0.0          |
| R5/605  | W6/605  | BEDROOM    | 15          | 45          | 14          | 44          | 6.7          | 2.2          | 15          | 45          | 14          | 44          | 6.7          | 2.2          |
| R6/605  | W7/605  | BEDROOM    | 14          | 45          | 15          | 46          | -7.1         | -2.2         | 14          | 45          | 15          | 46          | -7.1         | -2.2         |
| R7/605  | W8/605  | BEDROOM    | 16          | 47          | 16          | 47          | 0.0          | 0.0          |             |             |             |             |              |              |
| R7/605  | W9/605  | BEDROOM    | 21          | 62          | 23          | 64          | -9.5         | -3.2         | 22          | 77          | 23          | 78          | -4.5         | -1.3         |
| R1/610  | W1/610  | CHURCH     | 5           | 17          | 5           | 16          | 0.0          | 5.9          |             |             |             |             |              |              |
| R1/610  | W2/610  | CHURCH     | 7           | 20          | 5           | 16          | 28.6         | 20.0         |             |             |             |             |              |              |
| R1/610  | W3/610  | CHURCH     | 7           | 21          | 5           | 16          | 28.6         | 23.8         | 7           | 22          | 5           | 16          | 28.6         | 27.3         |
| R1/4005 | W2/4005 |            | 19          | 52          | 18          | 51          | 5.3          | 1.9          | 19          | 52          | 18          | 51          | 5.3          | 1.9          |

| Room              | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                   |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/4005           | W3/4005 |          | 19          | 53          | 18          | 52          | 5.3          | 1.9          | 19          | 53          | 18          | 52          | 5.3          | 1.9          |
| R3/4005           | W4/4005 |          | 19          | 53          | 18          | 52          | 5.3          | 1.9          | 19          | 53          | 18          | 52          | 5.3          | 1.9          |
| R4/4005           | W5/4005 |          | 19          | 53          | 18          | 52          | 5.3          | 1.9          | 19          | 53          | 18          | 52          | 5.3          | 1.9          |
| R5/4005           | W6/4005 |          | 19          | 54          | 18          | 53          | 5.3          | 1.9          |             |             |             |             |              |              |
| R5/4005           | W7/4005 |          | 17          | 38          | 17          | 38          | 0.0          | 0.0          | 19          | 57          | 18          | 56          | 5.3          | 1.8          |
| 9 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/699            | W1/699  |          | 5           | 24          | 4           | 20          | 20.0         | 16.7         | 5           | 24          | 4           | 20          | 20.0         | 16.7         |
| R1/700            | W1/700  |          | 10          | 32          | 9           | 28          | 10.0         | 12.5         |             |             |             |             |              |              |
| R1/700            | W2/700  |          | 10          | 33          | 9           | 28          | 10.0         | 15.2         | 10          | 34          | 9           | 28          | 10.0         | 17.6         |
| R2/700            | W3/700  | HALL     | 11          | 34          | 9           | 29          | 18.2         | 14.7         | 11          | 34          | 9           | 29          | 18.2         | 14.7         |
| R1/701            | W1/701  |          | 11          | 36          | 11          | 34          | 0.0          | 5.6          |             |             |             |             |              |              |
| R1/701            | W2/701  |          | 12          | 37          | 11          | 34          | 8.3          | 8.1          | 12          | 38          | 11          | 34          | 8.3          | 10.5         |
| R1/702            | W1/702  |          | 12          | 42          | 14          | 44          | -16.7        | -4.8         |             |             |             |             |              |              |
| R1/702            | W2/702  |          | 13          | 44          | 15          | 45          | -15.4        | -2.3         | 13          | 45          | 15          | 45          | -15.4        | 0.0          |
| R1/703            | W1/703  |          | 14          | 50          | 16          | 48          | -14.3        | 4.0          |             |             |             |             |              |              |
| R1/703            | W2/703  |          | 14          | 49          | 16          | 49          | -14.3        | 0.0          | 14          | 50          | 16          | 49          | -14.3        | 2.0          |

|                   |        |          | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|--------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |        |          | Existing    |             | Proposed    |             |              |              | Existing    |             | Proposed    |             |              |              |
| Room              | Window | Room Use | Winter APSH | Annual APSH | Winter APSH | Annual APSH | Winter %Loss | Annual %Loss | Winter APSH | Annual APSH | Winter APSH | Annual APSH | Winter %Loss | Annual %Loss |
| 8 SANDWICH STREET |        |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/799            | W1/799 | HALL     | 5           | 25          | 6           | 24          | -20.0        | 4.0          | 5           | 25          | 6           | 24          | -20.0        | 4.0          |
| R1/800            | W1/800 |          | 10          | 31          | 9           | 29          | 10.0         | 6.5          |             |             |             |             |              |              |
| R1/800            | W2/800 |          | 11          | 32          | 9           | 29          | 18.2         | 9.4          | 11          | 32          | 9           | 29          | 18.2         | 9.4          |
| R2/800            | W3/800 |          | 11          | 35          | 9           | 31          | 18.2         | 11.4         | 11          | 35          | 9           | 31          | 18.2         | 11.4         |
| R1/801            | W1/801 |          | 12          | 37          | 12          | 35          | 0.0          | 5.4          |             |             |             |             |              |              |
| R1/801            | W2/801 |          | 12          | 37          | 12          | 36          | 0.0          | 2.7          | 13          | 40          | 12          | 36          | 7.7          | 10.0         |
| R1/802            | W1/802 |          | 13          | 44          | 15          | 45          | -15.4        | -2.3         |             |             |             |             |              |              |
| R1/802            | W2/802 |          | 14          | 44          | 14          | 44          | 0.0          | 0.0          | 14          | 46          | 15          | 45          | -7.1         | 2.2          |
| R1/803            | W1/803 |          | 14          | 49          | 17          | 52          | -21.4        | -6.1         |             |             |             |             |              |              |
| R1/803            | W2/803 |          | 14          | 47          | 17          | 50          | -21.4        | -6.4         | 14          | 49          | 17          | 52          | -21.4        | -6.1         |
| 7 SANDWICH STREET |        |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/899            | W1/899 | HALL     | 4           | 27          | 5           | 24          | -25.0        | 11.1         | 4           | 27          | 5           | 24          | -25.0        | 11.1         |
| R1/900            | W1/900 |          | 10          | 33          | 10          | 32          | 0.0          | 3.0          |             |             |             |             |              |              |
| R1/900            | W2/900 |          | 10          | 35          | 10          | 33          | 0.0          | 5.7          | 10          | 35          | 10          | 33          | 0.0          | 5.7          |
| R2/900            | W3/900 |          | 10          | 37          | 10          | 34          | 0.0          | 8.1          | 10          | 37          | 10          | 34          | 0.0          | 8.1          |
| R1/901            | W1/901 |          | 12          | 38          | 12          | 38          | 0.0          | 0.0          |             |             |             |             |              |              |

| Room              | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                   |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/901            | W2/901  |          | 11          | 38          | 12          | 39          | -9.1         | -2.6         | 12          | 39          | 12          | 39          | 0.0          | 0.0          |
| R1/902            | W1/902  |          | 13          | 43          | 14          | 45          | -7.7         | -4.7         |             |             |             |             |              |              |
| R1/902            | W2/902  |          | 13          | 45          | 14          | 45          | -7.7         | 0.0          | 13          | 45          | 14          | 45          | -7.7         | 0.0          |
| R1/903            | W1/903  |          | 15          | 49          | 18          | 51          | -20.0        | -4.1         |             |             |             |             |              |              |
| R1/903            | W2/903  |          | 14          | 49          | 17          | 50          | -21.4        | -2.0         | 15          | 50          | 18          | 51          | -20.0        | -2.0         |
| 6 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/999            | W1/999  |          | 1           | 24          | 2           | 20          | -100.0       | 16.7         | 1           | 24          | 2           | 20          | -100.0       | 16.7         |
| R2/999            | W2/999  | HALL     | 0           | 0           | 0           | 0           | -            | -            | 0           | 0           | 0           | 0           | -            | -            |
| R1/1000           | W1/1000 |          | 9           | 36          | 10          | 33          | -11.1        | 8.3          |             |             |             |             |              |              |
| R1/1000           | W2/1000 |          | 9           | 36          | 10          | 34          | -11.1        | 5.6          | 9           | 36          | 10          | 34          | -11.1        | 5.6          |
| R2/1000           | W3/1000 | HALL     | 7           | 35          | 7           | 31          | 0.0          | 11.4         | 7           | 35          | 7           | 31          | 0.0          | 11.4         |
| R1/1001           | W1/1001 |          | 11          | 38          | 12          | 40          | -9.1         | -5.3         |             |             |             |             |              |              |
| R1/1001           | W2/1001 |          | 10          | 39          | 12          | 41          | -20.0        | -5.1         | 11          | 40          | 12          | 41          | -9.1         | -2.5         |
| R1/1002           | W1/1002 |          | 13          | 43          | 14          | 45          | -7.7         | -4.7         |             |             |             |             |              |              |
| R1/1002           | W2/1002 |          | 13          | 44          | 14          | 45          | -7.7         | -2.3         | 14          | 45          | 14          | 45          | 0.0          | 0.0          |
| R1/1003           | W1/1003 |          | 14          | 49          | 17          | 51          | -21.4        | -4.1         |             |             |             |             |              |              |
| R1/1003           | W2/1003 |          | 15          | 49          | 17          | 52          | -13.3        | -6.1         | 15          | 51          | 17          | 52          | -13.3        | -2.0         |

| Room              | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                   |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/1004           | W1/1004 |          | 17          | 54          | 19          | 56          | -11.8        | -3.7         | 17          | 54          | 19          | 56          | -11.8        | -3.7         |
| 5 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1099           | W1/1099 |          | 2           | 24          | 2           | 20          | 0.0          | 16.7         | 2           | 24          | 2           | 20          | 0.0          | 16.7         |
| R1/1100           | W1/1100 |          | 10          | 34          | 8           | 28          | 20.0         | 17.6         |             |             |             |             |              |              |
| R1/1100           | W2/1100 |          | 11          | 35          | 10          | 31          | 9.1          | 11.4         | 11          | 36          | 10          | 31          | 9.1          | 13.9         |
| R2/1100           | W3/1100 | HALL     | 8           | 34          | 8           | 32          | 0.0          | 5.9          | 8           | 34          | 8           | 32          | 0.0          | 5.9          |
| R1/1101           | W1/1101 |          | 11          | 39          | 12          | 41          | -9.1         | -5.1         |             |             |             |             |              |              |
| R1/1101           | W2/1101 |          | 11          | 39          | 12          | 41          | -9.1         | -5.1         | 11          | 39          | 12          | 41          | -9.1         | -5.1         |
| R1/1102           | W1/1102 |          | 12          | 42          | 14          | 46          | -16.7        | -9.5         |             |             |             |             |              |              |
| R1/1102           | W2/1102 |          | 12          | 43          | 14          | 47          | -16.7        | -9.3         | 12          | 43          | 14          | 47          | -16.7        | -9.3         |
| R1/1103           | W1/1103 |          | 14          | 49          | 17          | 52          | -21.4        | -6.1         |             |             |             |             |              |              |
| R1/1103           | W2/1103 |          | 15          | 50          | 17          | 52          | -13.3        | -4.0         | 15          | 50          | 18          | 53          | -20.0        | -6.0         |
| R1/1104           | W1/1104 |          | 18          | 56          | 20          | 58          | -11.1        | -3.6         | 18          | 56          | 20          | 58          | -11.1        | -3.6         |
| 4 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1199           | W1/1199 |          | 2           | 22          | 2           | 20          | 0.0          | 9.1          | 2           | 22          | 2           | 20          | 0.0          | 9.1          |
| R1/1200           | W1/1200 |          | 8           | 30          | 8           | 28          | 0.0          | 6.7          |             |             |             |             |              |              |
| R1/1200           | W2/1200 |          | 9           | 30          | 8           | 28          | 11.1         | 6.7          | 9           | 31          | 9           | 29          | 0.0          | 6.5          |

| Room              | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                   |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/1200           | W3/1200 | HALL     | 7           | 27          | 7           | 28          | 0.0          | -3.7         | 7           | 27          | 7           | 28          | 0.0          | -3.7         |
| R1/1201           | W1/1201 |          | 11          | 37          | 11          | 40          | 0.0          | -8.1         |             |             |             |             |              |              |
| R1/1201           | W2/1201 |          | 9           | 35          | 9           | 38          | 0.0          | -8.6         | 11          | 38          | 11          | 40          | 0.0          | -5.3         |
| R1/1202           | W1/1202 |          | 12          | 42          | 13          | 46          | -8.3         | -9.5         |             |             |             |             |              |              |
| R1/1202           | W2/1202 |          | 10          | 40          | 12          | 45          | -20.0        | -12.5        | 12          | 42          | 14          | 47          | -16.7        | -11.9        |
| R1/1203           | W1/1203 |          | 16          | 50          | 17          | 52          | -6.3         | -4.0         |             |             |             |             |              |              |
| R1/1203           | W2/1203 |          | 13          | 47          | 14          | 49          | -7.7         | -4.3         | 17          | 52          | 17          | 53          | 0.0          | -1.9         |
| 3 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1299           | W1/1299 |          | 2           | 21          | 2           | 21          | 0.0          | 0.0          | 2           | 21          | 2           | 21          | 0.0          | 0.0          |
| R1/1300           | W1/1300 |          | 9           | 34          | 9           | 33          | 0.0          | 2.9          |             |             |             |             |              |              |
| R1/1300           | W2/1300 |          | 11          | 35          | 10          | 35          | 9.1          | 0.0          | 11          | 37          | 10          | 35          | 9.1          | 5.4          |
| R2/1300           | W3/1300 | HALL     | 8           | 32          | 7           | 32          | 12.5         | 0.0          | 8           | 32          | 7           | 32          | 12.5         | 0.0          |
| R1/1301           | W1/1301 |          | 14          | 42          | 12          | 42          | 14.3         | 0.0          |             |             |             |             |              |              |
| R1/1301           | W2/1301 |          | 15          | 41          | 13          | 43          | 13.3         | -4.9         | 15          | 43          | 13          | 43          | 13.3         | 0.0          |
| R1/1302           | W1/1302 |          | 16          | 47          | 16          | 50          | 0.0          | -6.4         |             |             |             |             |              |              |
| R1/1302           | W2/1302 |          | 16          | 46          | 16          | 50          | 0.0          | -8.7         | 16          | 47          | 16          | 50          | 0.0          | -6.4         |
| R1/1303           | W1/1303 |          | 17          | 53          | 17          | 53          | 0.0          | 0.0          |             |             |             |             |              |              |

| Room              | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                   |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                   |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/1303           | W2/1303 |          | 17          | 51          | 19          | 55          | -11.8        | -7.8         | 17          | 53          | 19          | 55          | -11.8        | -3.8         |
| 2 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1399           | W1/1399 |          | 6           | 25          | 6           | 24          | 0.0          | 4.0          | 6           | 25          | 6           | 24          | 0.0          | 4.0          |
| R1/1400           | W1/1400 |          | 9           | 27          | 7           | 28          | 22.2         | -3.7         |             |             |             |             |              |              |
| R1/1400           | W2/1400 |          | 10          | 30          | 9           | 30          | 10.0         | 0.0          | 11          | 31          | 9           | 30          | 18.2         | 3.2          |
| R2/1400           | W3/1400 | HALL     | 9           | 31          | 8           | 31          | 11.1         | 0.0          | 9           | 31          | 8           | 31          | 11.1         | 0.0          |
| R1/1401           | W1/1401 |          | 16          | 41          | 13          | 43          | 18.8         | -4.9         |             |             |             |             |              |              |
| R1/1401           | W2/1401 |          | 15          | 39          | 14          | 44          | 6.7          | -12.8        | 16          | 42          | 15          | 45          | 6.3          | -7.1         |
| R1/1402           | W1/1402 |          | 17          | 48          | 15          | 50          | 11.8         | -4.2         |             |             |             |             |              |              |
| R1/1402           | W2/1402 |          | 16          | 46          | 15          | 50          | 6.3          | -8.7         | 17          | 48          | 16          | 51          | 5.9          | -6.3         |
| R1/1403           | W1/1403 |          | 18          | 52          | 18          | 54          | 0.0          | -3.8         |             |             |             |             |              |              |
| R1/1403           | W2/1403 |          | 19          | 53          | 18          | 54          | 5.3          | -1.9         | 19          | 53          | 18          | 54          | 5.3          | -1.9         |
| R1/1404           | W1/1404 |          | 18          | 54          | 18          | 56          | 0.0          | -3.7         |             |             |             |             |              |              |
| R1/1404           | W2/1404 |          | 15          | 49          | 15          | 51          | 0.0          | -4.1         |             |             |             |             |              |              |
| R1/1404           | W3/1404 |          | 4           | 44          | 3           | 43          | 25.0         | 2.3          | 20          | 62          | 18          | 62          | 10.0         | 0.0          |
| 1 SANDWICH STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1499           | W1/1499 |          | 9           | 31          | 8           | 28          | 11.1         | 9.7          | 9           | 31          | 8           | 28          | 11.1         | 9.7          |



| Room                 | Window   | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|----------------------|----------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                      |          |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                      |          |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/1500              | W1/1500  |          | 10          | 34          | 9           | 33          | 10.0         | 2.9          | 10          | 34          | 9           | 33          | 10.0         | 2.9          |
| R2/1500              | W2/1500  | HALL     | 4           | 15          | 4           | 13          | 0.0          | 13.3         | 4           | 15          | 4           | 13          | 0.0          | 13.3         |
| R1/1501              | W1/1501  |          | 15          | 41          | 15          | 45          | 0.0          | -9.8         |             |             |             |             |              |              |
| R1/1501              | W2/1501  |          | 13          | 37          | 13          | 40          | 0.0          | -8.1         | 15          | 42          | 15          | 45          | 0.0          | -7.1         |
| R1/1502              | W1/1502  |          | 18          | 47          | 17          | 51          | 5.6          | -8.5         |             |             |             |             |              |              |
| R1/1502              | W2/1502  |          | 16          | 44          | 15          | 46          | 6.3          | -4.5         | 18          | 48          | 17          | 52          | 5.6          | -8.3         |
| R1/1503              | W1/1503  |          | 20          | 53          | 18          | 55          | 10.0         | -3.8         |             |             |             |             |              |              |
| R1/1503              | W2/1503  |          | 18          | 48          | 16          | 49          | 11.1         | -2.1         | 20          | 53          | 18          | 55          | 10.0         | -3.8         |
| R1/1504              | W1/1504  |          | 19          | 54          | 19          | 57          | 0.0          | -5.6         | 19          | 54          | 19          | 57          | 0.0          | -5.6         |
| 28 LEIGH STREET (PH) |          |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/1600              | W4/1600  | PH       | 9           | 31          | 9           | 28          | 0.0          | 9.7          |             |             |             |             |              |              |
| R1/1600              | W5/1600  | PH       | 8           | 26          | 8           | 26          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/1600              | W6/1600  | PH       | 3           | 3           | 3           | 4           | 0.0          | -33.3        |             |             |             |             |              |              |
| R1/1600              | W7/1600  | PH       | 6           | 46          | 6           | 46          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/1600              | W8/1600  | PH       | 7           | 49          | 7           | 49          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/1600              | W9/1600  | PH       | 8           | 52          | 8           | 52          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/1600              | W10/1600 | PH       | 6           | 46          | 6           | 46          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/1600              | W11/1600 | PH       | 6           | 46          | 6           | 46          | 0.0          | 0.0          | 10          | 61          | 10          | 61          | 0.0          | 0.0          |
| R1/1601              | W1/1601  |          | 13          | 41          | 13          | 42          | 0.0          | -2.4         | 13          | 41          | 13          | 42          | 0.0          | -2.4         |

| Room           | Window  | Room Use   | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|----------------|---------|------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                |         |            | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                |         |            | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/1601        | W2/1601 |            | 16          | 45          | 16          | 45          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/1601        | W3/1601 |            | 14          | 65          | 14          | 65          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/1601        | W4/1601 |            | 13          | 63          | 13          | 63          | 0.0          | 0.0          | 17          | 74          | 17          | 75          | 0.0          | -1.4         |
| R1/1602        | W1/1602 |            | 20          | 50          | 19          | 53          | 5.0          | -6.0         | 20          | 50          | 19          | 53          | 5.0          | -6.0         |
| R2/1602        | W2/1602 |            | 19          | 50          | 19          | 53          | 0.0          | -6.0         |             |             |             |             |              |              |
| R2/1602        | W3/1602 |            | 21          | 72          | 21          | 72          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/1602        | W4/1602 |            | 25          | 76          | 25          | 76          | 0.0          | 0.0          | 26          | 86          | 26          | 89          | 0.0          | -3.5         |
| R1/1603        | W1/1603 |            | 20          | 49          | 20          | 52          | 0.0          | -6.1         | 20          | 49          | 20          | 52          | 0.0          | -6.1         |
| R2/1603        | W2/1603 |            | 20          | 49          | 20          | 52          | 0.0          | -6.1         |             |             |             |             |              |              |
| R2/1603        | W3/1603 |            | 27          | 77          | 27          | 77          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/1603        | W4/1603 |            | 27          | 78          | 27          | 78          | 0.0          | 0.0          | 27          | 88          | 27          | 91          | 0.0          | -3.4         |
| 5 LEIGH STREET |         |            |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/2199        | W1/2199 |            | 0           | 10          | 0           | 10          | -            | 0.0          | 0           | 10          | 0           | 10          | -            | 0.0          |
| R1/2200        | W5/2200 | COMMERCIAL | 1           | 11          | 1           | 10          | 0.0          | 9.1          | 1           | 11          | 1           | 10          | 0.0          | 9.1          |
| 3 LEIGH STREET |         |            |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/2400        | W5/2400 | GALLERY    | 0           | 0           | 0           | 0           | -            | -            | 0           | 0           | 0           | 0           | -            | -            |
| 1 LEIGH STREET |         |            |             |             |             |             |              |              |             |             |             |             |              |              |

| Room                                                | Window  | Room Use      | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------------------------------------|---------|---------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                                     |         |               | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                                     |         |               | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/2601                                             | W4/2601 | BEDROOM - WIN | 15          | 55          | 15          | 55          | 0.0          | 0.0          | 15          | 55          | 15          | 55          | 0.0          | 0.0          |
| R2/2602                                             | W3/2602 | BEDROOM - WIN | 13          | 48          | 13          | 48          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/2602                                             | W4/2602 | BEDROOM - WIN | 21          | 63          | 21          | 63          | 0.0          | 0.0          | 22          | 64          | 22          | 64          | 0.0          | 0.0          |
| R2/2603                                             | W3/2603 | BEDROOM - WIN | 15          | 50          | 15          | 50          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/2603                                             | W4/2603 | BEDROOM - WIN | 22          | 64          | 22          | 64          | 0.0          | 0.0          | 23          | 65          | 23          | 65          | 0.0          | 0.0          |
| 58-60 CARTWRIGHT GARDENS (HOTEL)                    |         |               |             |             |             |             |              |              |             |             |             |             |              |              |
| R2/2999                                             | W2/2999 |               | 0           | 0           | 0           | 0           | -            | -            | 0           | 0           | 0           | 0           | -            | -            |
| BENTHAM HALL (UNIVERSITY), 31-43 CARTWRIGHT GARDENS |         |               |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3099                                             | W1/3099 |               | 3           | 38          | 3           | 34          | 0.0          | 10.5         | 3           | 38          | 3           | 34          | 0.0          | 10.5         |
| R1/3100                                             | W1/3100 | HALL          | 17          | 48          | 16          | 45          | 5.9          | 6.3          | 17          | 48          | 16          | 45          | 5.9          | 6.3          |
| R2/3100                                             | W2/3100 |               | 17          | 51          | 16          | 47          | 5.9          | 7.8          | 17          | 51          | 16          | 47          | 5.9          | 7.8          |
| R1/3101                                             | W1/3101 |               | 17          | 54          | 16          | 51          | 5.9          | 5.6          | 17          | 54          | 16          | 51          | 5.9          | 5.6          |
| R2/3101                                             | W2/3101 |               | 18          | 56          | 17          | 53          | 5.6          | 5.4          | 18          | 56          | 17          | 53          | 5.6          | 5.4          |
| R1/3102                                             | W1/3102 |               | 18          | 57          | 18          | 57          | 0.0          | 0.0          | 18          | 57          | 18          | 57          | 0.0          | 0.0          |
| R2/3102                                             | W2/3102 |               | 19          | 58          | 18          | 56          | 5.3          | 3.4          | 19          | 58          | 18          | 56          | 5.3          | 3.4          |

| Room                  | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                       |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                       |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/3103               | W1/3103 |          | 19          | 58          | 18          | 57          | 5.3          | 1.7          | 19          | 58          | 18          | 57          | 5.3          | 1.7          |
| R2/3103               | W2/3103 |          | 20          | 59          | 19          | 58          | 5.0          | 1.7          | 20          | 59          | 19          | 58          | 5.0          | 1.7          |
| 30 CARTWRIGHT GARDENS |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3199               | W1/3199 |          | 5           | 39          | 5           | 36          | 0.0          | 7.7          | 5           | 39          | 5           | 36          | 0.0          | 7.7          |
| R1/3200               | W1/3200 | HALL     | 12          | 43          | 12          | 40          | 0.0          | 7.0          |             |             |             |             |              |              |
| R1/3200               | W2/3200 | HALL     | 16          | 49          | 16          | 46          | 0.0          | 6.1          |             |             |             |             |              |              |
| R1/3200               | W3/3200 | HALL     | 17          | 47          | 16          | 43          | 5.9          | 8.5          | 17          | 50          | 16          | 46          | 5.9          | 8.0          |
| R2/3200               | W4/3200 |          | 17          | 51          | 16          | 47          | 5.9          | 7.8          | 17          | 51          | 16          | 47          | 5.9          | 7.8          |
| R1/3201               | W1/3201 |          | 18          | 57          | 17          | 53          | 5.6          | 7.0          | 18          | 57          | 17          | 53          | 5.6          | 7.0          |
| R2/3201               | W2/3201 |          | 18          | 56          | 17          | 53          | 5.6          | 5.4          | 18          | 56          | 17          | 53          | 5.6          | 5.4          |
| R1/3202               | W1/3202 |          | 19          | 58          | 17          | 53          | 10.5         | 8.6          | 19          | 58          | 17          | 53          | 10.5         | 8.6          |
| R2/3202               | W2/3202 |          | 19          | 57          | 18          | 54          | 5.3          | 5.3          | 19          | 57          | 18          | 54          | 5.3          | 5.3          |
| R1/3203               | W1/3203 |          | 20          | 59          | 19          | 57          | 5.0          | 3.4          | 20          | 59          | 19          | 57          | 5.0          | 3.4          |
| R2/3203               | W2/3203 |          | 22          | 61          | 21          | 60          | 4.5          | 1.6          | 22          | 61          | 21          | 60          | 4.5          | 1.6          |
| 29 CARTWRIGHT GARDENS |         |          |             |             |             |             |              |              |             |             |             |             |              |              |

| Room                  | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                       |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                       |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/3299               | W1/3299 |          | 0           | 0           | 0           | 0           | -            | -            | 0           | 0           | 0           | 0           | -            | -            |
| R2/3299               | W2/3299 |          | 2           | 28          | 2           | 28          | 0.0          | 0.0          | 2           | 28          | 2           | 28          | 0.0          | 0.0          |
| R1/3300               | W1/3300 | HALL     | 14          | 44          | 13          | 40          | 7.1          | 9.1          |             |             |             |             |              |              |
| R1/3300               | W2/3300 | HALL     | 18          | 49          | 17          | 46          | 5.6          | 6.1          |             |             |             |             |              |              |
| R1/3300               | W3/3300 | HALL     | 18          | 47          | 17          | 44          | 5.6          | 6.4          | 18          | 50          | 17          | 47          | 5.6          | 6.0          |
| R2/3300               | W4/3300 |          | 18          | 48          | 17          | 46          | 5.6          | 4.2          | 18          | 48          | 17          | 46          | 5.6          | 4.2          |
| R1/3301               | W1/3301 |          | 18          | 54          | 17          | 51          | 5.6          | 5.6          | 18          | 54          | 17          | 51          | 5.6          | 5.6          |
| R2/3301               | W2/3301 |          | 21          | 56          | 20          | 54          | 4.8          | 3.6          | 21          | 56          | 20          | 54          | 4.8          | 3.6          |
| R1/3302               | W1/3302 |          | 22          | 59          | 20          | 55          | 9.1          | 6.8          | 22          | 59          | 20          | 55          | 9.1          | 6.8          |
| R2/3302               | W2/3302 |          | 22          | 57          | 20          | 54          | 9.1          | 5.3          | 22          | 57          | 20          | 54          | 9.1          | 5.3          |
| R1/3303               | W1/3303 |          | 22          | 60          | 21          | 58          | 4.5          | 3.3          | 22          | 60          | 21          | 58          | 4.5          | 3.3          |
| R2/3303               | W2/3303 |          | 22          | 57          | 20          | 54          | 9.1          | 5.3          | 22          | 57          | 20          | 54          | 9.1          | 5.3          |
| 28 CARTWRIGHT GARDENS |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3399               | W1/3399 |          | 2           | 24          | 2           | 23          | 0.0          | 4.2          |             |             |             |             |              |              |
| R1/3399               | W2/3399 |          | 16          | 47          | 16          | 46          | 0.0          | 2.1          | 16          | 49          | 16          | 48          | 0.0          | 2.0          |
| R1/3400               | W1/3400 | HALL     | 18          | 52          | 17          | 50          | 5.6          | 3.8          | 18          | 52          | 17          | 50          | 5.6          | 3.8          |

| Room                  | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                       |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                       |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R2/3400               | W2/3400 |              | 21          | 55          | 20          | 53          | 4.8          | 3.6          |             |             |             |             |              |              |
| R2/3400               | W3/3400 |              | 20          | 53          | 20          | 53          | 0.0          | 0.0          | 21          | 56          | 20          | 54          | 4.8          | 3.6          |
| R1/3401               | W1/3401 |              | 21          | 56          | 20          | 54          | 4.8          | 3.6          | 21          | 56          | 20          | 54          | 4.8          | 3.6          |
| R2/3401               | W2/3401 |              | 21          | 55          | 20          | 53          | 4.8          | 3.6          |             |             |             |             |              |              |
| R2/3401               | W3/3401 |              | 21          | 54          | 20          | 53          | 4.8          | 1.9          | 21          | 56          | 20          | 54          | 4.8          | 3.6          |
| R1/3402               | W1/3402 |              | 22          | 57          | 20          | 54          | 9.1          | 5.3          | 22          | 57          | 20          | 54          | 9.1          | 5.3          |
| R2/3402               | W2/3402 |              | 22          | 56          | 20          | 53          | 9.1          | 5.4          |             |             |             |             |              |              |
| R2/3402               | W3/3402 |              | 22          | 55          | 20          | 53          | 9.1          | 3.6          | 22          | 57          | 20          | 54          | 9.1          | 5.3          |
| R1/3403               | W1/3403 |              | 22          | 57          | 20          | 54          | 9.1          | 5.3          | 22          | 57          | 20          | 54          | 9.1          | 5.3          |
| R2/3403               | W2/3403 |              | 22          | 56          | 20          | 54          | 9.1          | 3.6          |             |             |             |             |              |              |
| R2/3403               | W3/3403 |              | 22          | 56          | 20          | 54          | 9.1          | 3.6          | 22          | 57          | 20          | 55          | 9.1          | 3.5          |
| 27 CARTWRIGHT GARDENS |         |              |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3499               | W1/3499 |              | 17          | 49          | 17          | 47          | 0.0          | 4.1          | 17          | 49          | 17          | 47          | 0.0          | 4.1          |
| R2/3499               | W2/3499 | WINDOWS BLOC | 20          | 51          | 20          | 50          | 0.0          | 2.0          | 20          | 51          | 20          | 50          | 0.0          | 2.0          |
| R1/3500               | W1/3500 |              | 20          | 52          | 20          | 52          | 0.0          | 0.0          | 20          | 52          | 20          | 52          | 0.0          | 0.0          |
| R2/3500               | W2/3500 | WINDOWS BLOC | 20          | 51          | 20          | 50          | 0.0          | 2.0          | 20          | 51          | 20          | 50          | 0.0          | 2.0          |

| Room                  | Window  | Room Use     | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------|---------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                       |         |              | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                       |         |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/3501               | W1/3501 |              | 20          | 52          | 20          | 52          | 0.0          | 0.0          | 20          | 52          | 20          | 52          | 0.0          | 0.0          |
| R2/3501               | W2/3501 | WINDOWS BLOC | 20          | 51          | 20          | 51          | 0.0          | 0.0          | 20          | 51          | 20          | 51          | 0.0          | 0.0          |
| R1/3502               | W1/3502 |              | 21          | 54          | 20          | 53          | 4.8          | 1.9          | 21          | 54          | 20          | 53          | 4.8          | 1.9          |
| R2/3502               | W2/3502 | WINDOWS BLOC | 20          | 52          | 20          | 52          | 0.0          | 0.0          | 20          | 52          | 20          | 52          | 0.0          | 0.0          |
| R1/3503               | W1/3503 |              | 21          | 54          | 20          | 53          | 4.8          | 1.9          | 21          | 54          | 20          | 53          | 4.8          | 1.9          |
| R2/3503               | W2/3503 | WINDOWS BLOC | 21          | 54          | 21          | 54          | 0.0          | 0.0          | 21          | 54          | 21          | 54          | 0.0          | 0.0          |
| 160-181 THANET STREET |         |              |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3605               | W1/3605 |              | 1           | 3           | 1           | 3           | 0.0          | 0.0          | 1           | 3           | 1           | 3           | 0.0          | 0.0          |
| R2/3605               | W2/3605 |              | 18          | 53          | 18          | 53          | 0.0          | 0.0          |             |             |             |             |              |              |
| R2/3605               | W3/3605 |              | 18          | 53          | 18          | 53          | 0.0          | 0.0          | 20          | 57          | 20          | 57          | 0.0          | 0.0          |
| R3/3605               | W4/3605 |              | 19          | 55          | 18          | 54          | 5.3          | 1.8          | 19          | 55          | 18          | 54          | 5.3          | 1.8          |
| 136-159 THANET STREET |         |              |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3705               | W1/3705 | TEST         | 18          | 55          | 18          | 55          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/3705               | W2/3705 | TEST         | 18          | 56          | 18          | 55          | 0.0          | 1.8          | 19          | 57          | 19          | 57          | 0.0          | 0.0          |
| R2/3705               | W3/3705 |              | 7           | 12          | 7           | 12          | 0.0          | 0.0          | 7           | 12          | 7           | 12          | 0.0          | 0.0          |

| Room                  | Window   | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|-----------------------|----------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                       |          |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                       |          |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R3/3705               | W4/3705  |          | 2           | 4           | 2           | 4           | 0.0          | 0.0          |             |             |             |             |              |              |
| R3/3705               | W5/3705  |          | 0           | 2           | 0           | 2           | -            | 0.0          | 2           | 4           | 2           | 4           | 0.0          | 0.0          |
| R4/3705               | W6/3705  |          | 19          | 55          | 19          | 55          | 0.0          | 0.0          | 19          | 55          | 19          | 55          | 0.0          | 0.0          |
| R5/3705               | W7/3705  |          | 20          | 57          | 20          | 57          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/3705               | W8/3705  |          | 20          | 55          | 20          | 55          | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/3705               | W9/3705  |          | 19          | 55          | 19          | 55          | 0.0          | 0.0          | 20          | 58          | 20          | 58          | 0.0          | 0.0          |
| R6/3705               | W10/3705 |          | 20          | 58          | 20          | 58          | 0.0          | 0.0          | 20          | 58          | 20          | 58          | 0.0          | 0.0          |
| 112-135 THANET STREET |          |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3805               | W1/3805  |          | 19          | 57          | 19          | 57          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/3805               | W2/3805  |          | 19          | 55          | 18          | 54          | 5.3          | 1.8          | 20          | 58          | 19          | 57          | 5.0          | 1.7          |
| R2/3805               | W3/3805  |          | 6           | 18          | 6           | 17          | 0.0          | 5.6          | 6           | 18          | 6           | 17          | 0.0          | 5.6          |
| R3/3805               | W4/3805  |          | 19          | 56          | 19          | 56          | 0.0          | 0.0          | 19          | 56          | 19          | 56          | 0.0          | 0.0          |
| R4/3805               | W5/3805  |          | 8           | 13          | 8           | 13          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/3805               | W6/3805  |          | 8           | 15          | 8           | 15          | 0.0          | 0.0          | 8           | 15          | 8           | 15          | 0.0          | 0.0          |
| R5/3805               | W7/3805  |          | 9           | 22          | 9           | 22          | 0.0          | 0.0          | 9           | 22          | 9           | 22          | 0.0          | 0.0          |
| R6/3805               | W8/3805  |          | 18          | 54          | 18          | 54          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/3805               | W9/3805  |          | 18          | 54          | 18          | 54          | 0.0          | 0.0          | 19          | 55          | 19          | 55          | 0.0          | 0.0          |



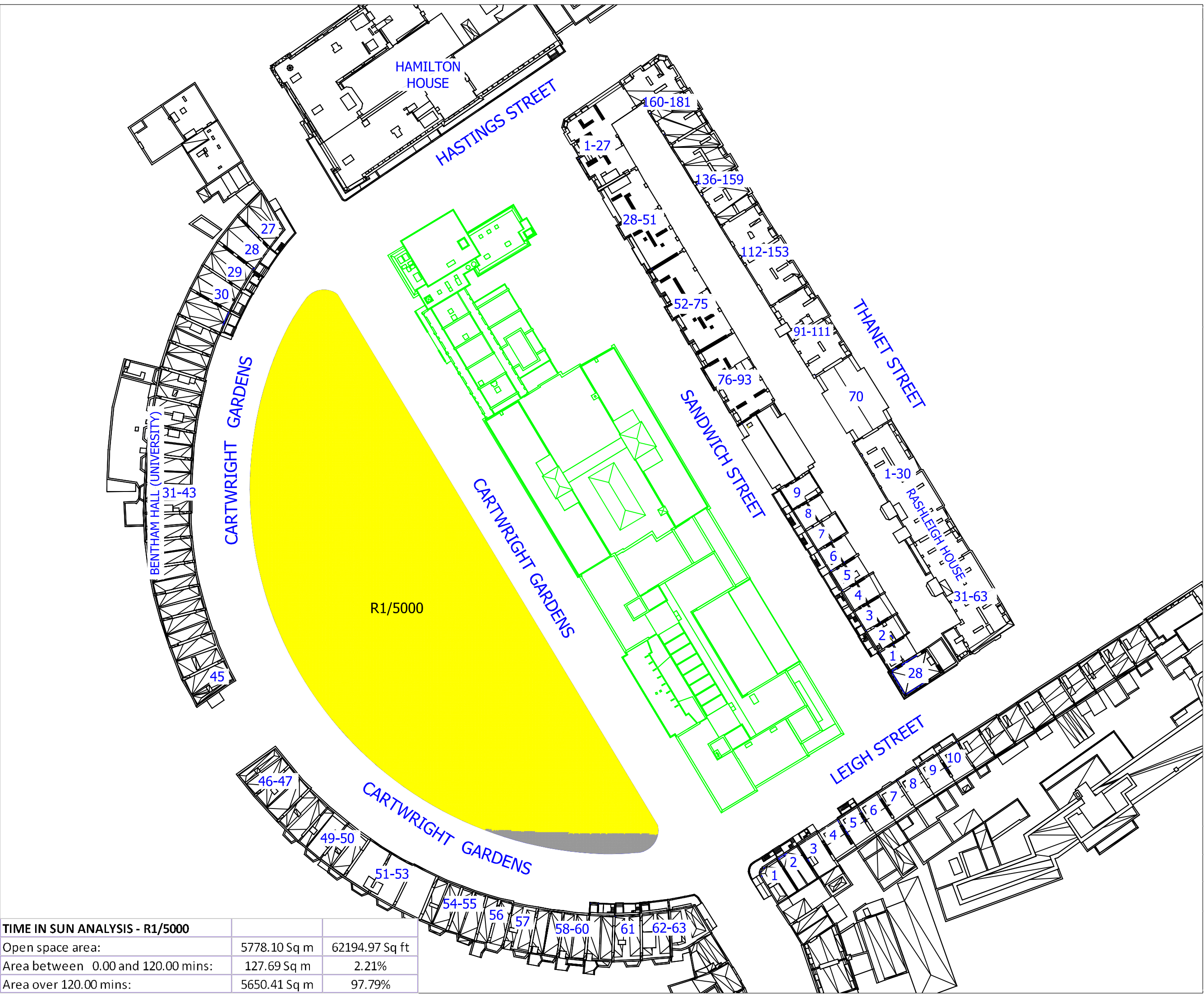
|                                    |         |          | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|------------------------------------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                    |         |          | Existing    |             | Proposed    |             |              |              | Existing    |             | Proposed    |             |              |              |
| Room                               | Window  | Room Use | Winter APSH | Annual APSH | Winter APSH | Annual APSH | Winter %Loss | Annual %Loss | Winter APSH | Annual APSH | Winter APSH | Annual APSH | Winter %Loss | Annual %Loss |
| 91-111 THANET STREET               |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/3905                            | W1/3905 |          | 10          | 40          | 10          | 40          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/3905                            | W2/3905 |          | 2           | 17          | 1           | 16          | 50.0         | 5.9          | 11          | 41          | 10          | 40          | 9.1          | 2.4          |
| R2/3905                            | W3/3905 |          | 20          | 54          | 20          | 54          | 0.0          | 0.0          | 20          | 54          | 20          | 54          | 0.0          | 0.0          |
| R3/3905                            | W4/3905 |          | 19          | 58          | 19          | 58          | 0.0          | 0.0          | 19          | 58          | 19          | 58          | 0.0          | 0.0          |
| R4/3905                            | W5/3905 |          | 19          | 58          | 19          | 58          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/3905                            | W6/3905 |          | 20          | 59          | 20          | 59          | 0.0          | 0.0          |             |             |             |             |              |              |
| R4/3905                            | W7/3905 |          | 21          | 60          | 20          | 59          | 4.8          | 1.7          | 21          | 60          | 20          | 59          | 4.8          | 1.7          |
| R5/3905                            | W8/3905 |          | 21          | 60          | 20          | 59          | 4.8          | 1.7          | 21          | 60          | 20          | 59          | 4.8          | 1.7          |
| 1-30 RASHLEIGH HOUSE,THANET STREET |         |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/4104                            | W1/4104 |          | 21          | 61          | 21          | 61          | 0.0          | 0.0          |             |             |             |             |              |              |
| R1/4104                            | W4/4104 |          | 21          | 61          | 21          | 61          | 0.0          | 0.0          | 21          | 61          | 21          | 61          | 0.0          | 0.0          |
| R2/4104                            | W5/4104 |          | 21          | 61          | 21          | 61          | 0.0          | 0.0          | 21          | 61          | 21          | 61          | 0.0          | 0.0          |
| R3/4104                            | W6/4104 |          | 22          | 63          | 21          | 61          | 4.5          | 3.2          |             |             |             |             |              |              |
| R3/4104                            | W7/4104 |          | 20          | 61          | 19          | 59          | 5.0          | 3.3          | 22          | 63          | 21          | 61          | 4.5          | 3.2          |
| R4/4104                            | W8/4104 |          | 6           | 11          | 6           | 11          | 0.0          | 0.0          | 6           | 11          | 6           | 11          | 0.0          | 0.0          |

| Room                                 | Window   | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|--------------------------------------|----------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                                      |          |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|                                      |          |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R5/4104                              | W9/4104  |          | 16          | 57          | 15          | 55          | 6.3          | 3.5          |             |             |             |             |              |              |
| R5/4104                              | W10/4104 |          | 4           | 5           | 4           | 5           | 0.0          | 0.0          |             |             |             |             |              |              |
| R5/4104                              | W11/4104 |          | 1           | 4           | 2           | 4           | -100.0       | 0.0          | 16          | 57          | 15          | 55          | 6.3          | 3.5          |
| R6/4104                              | W12/4104 |          | 2           | 9           | 2           | 8           | 0.0          | 11.1         | 2           | 9           | 2           | 8           | 0.0          | 11.1         |
| R7/4104                              | W13/4104 |          | 20          | 54          | 22          | 56          | -10.0        | -3.7         | 20          | 54          | 22          | 56          | -10.0        | -3.7         |
| R1/4114                              | W1/4114  |          | 19          | 59          | 21          | 60          | -10.5        | -1.7         | 19          | 59          | 21          | 60          | -10.5        | -1.7         |
| 31-63 RASHLEIGH HOUSE, THANET STREET |          |          |             |             |             |             |              |              |             |             |             |             |              |              |
| R1/4204                              | W1/4204  |          | 18          | 59          | 20          | 60          | -11.1        | -1.7         |             |             |             |             |              |              |
| R1/4204                              | W2/4204  |          | 19          | 61          | 19          | 60          | 0.0          | 1.6          | 20          | 62          | 20          | 61          | 0.0          | 1.6          |
| R2/4204                              | W3/4204  |          | 18          | 60          | 19          | 60          | -5.6         | 0.0          |             |             |             |             |              |              |
| R2/4204                              | W4/4204  |          | 15          | 55          | 15          | 55          | 0.0          | 0.0          | 19          | 61          | 19          | 60          | 0.0          | 1.6          |
| R3/4204                              | W5/4204  |          | 4           | 11          | 4           | 11          | 0.0          | 0.0          | 4           | 11          | 4           | 11          | 0.0          | 0.0          |
| R4/4204                              | W6/4204  |          | 6           | 12          | 5           | 11          | 16.7         | 8.3          |             |             |             |             |              |              |
| R4/4204                              | W7/4204  |          | 19          | 60          | 19          | 60          | 0.0          | 0.0          | 20          | 61          | 19          | 60          | 5.0          | 1.6          |
| R5/4204                              | W8/4204  |          | 5           | 14          | 5           | 14          | 0.0          | 0.0          | 5           | 14          | 5           | 14          | 0.0          | 0.0          |
| R6/4204                              | W9/4204  |          | 8           | 46          | 8           | 46          | 0.0          | 0.0          |             |             |             |             |              |              |
| R6/4204                              | W10/4204 |          | 1           | 7           | 1           | 7           | 0.0          | 0.0          | 8           | 46          | 8           | 46          | 0.0          | 0.0          |

| Room    | Window  | Room Use | Window      |             |             |             |              |              | Room        |             |             |             |              |              |
|---------|---------|----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
|         |         |          | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss | Existing    |             | Proposed    |             | Winter %Loss | Annual %Loss |
|         |         |          | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              | Winter APSH | Annual APSH | Winter APSH | Annual APSH |              |              |
| R1/4214 | W1/4214 |          | 22          | 63          | 22          | 63          | 0.0          | 0.0          | 22          | 63          | 22          | 63          | 0.0          | 0.0          |

# APPENDIX 4

OVERSHADOWING ANALYSIS



| TIME IN SUN ANALYSIS - R1/5000     |              |                |
|------------------------------------|--------------|----------------|
| Open space area:                   | 5778.10 Sq m | 62194.97 Sq ft |
| Area between 0.00 and 120.00 mins: | 127.69 Sq m  | 2.21%          |
| Area over 120.00 mins:             | 5650.41 Sq m | 97.79%         |

Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR21-110213

IR22-120213  
10417\_C01\_GIA.dwg

IR23-130213  
10417\_C01\_GIA Extra massing.dwg

Notes

N.B. DO NOT SCALE OFF THIS DRAWING

LATITUDE 51.53  
LONGITUDE -0.13

AREA RECEIVING LESS THAN  
2 HOURS SUNLIGHT

AREA RECEIVING MORE THAN  
2 HOURS SUNLIGHT

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

SUN ON GROUND ANALYSIS  
EXISTING SCENARIO

Scale  
1:800 @ A3

Date  
13.02.13

Drawn  
JH

Checked

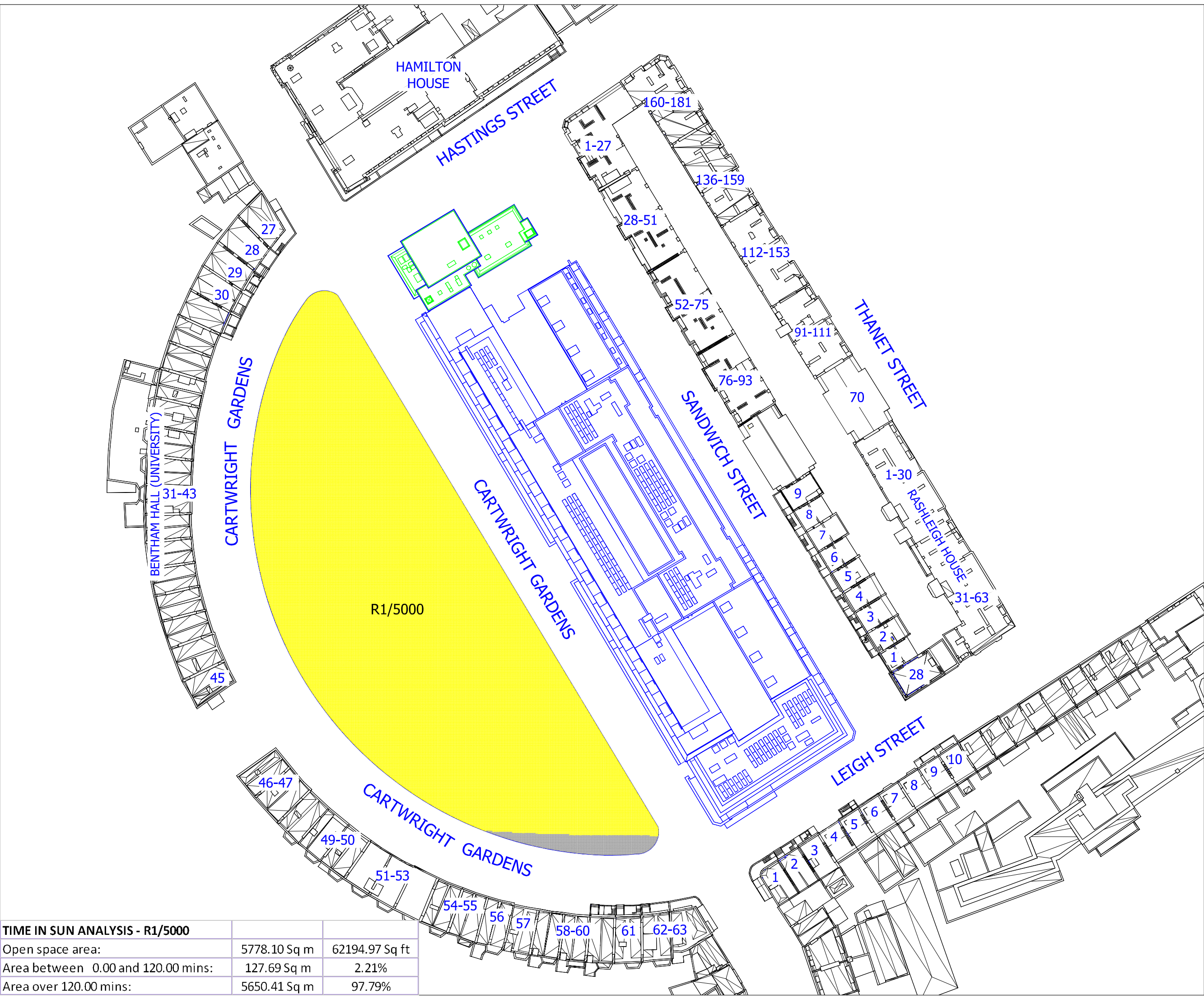
Drawing No.  
6173-42

Rel No.  
06

Revision  
A

The Whitehouse  
Belvedere Road  
London SE1 8GA  
t 020 7202 1400  
f 020 7202 1401  
mail@gia.uk.com  
www.gia.uk.com





| TIME IN SUN ANALYSIS - R1/5000     |              |                |
|------------------------------------|--------------|----------------|
| Open space area:                   | 5778.10 Sq m | 62194.97 Sq ft |
| Area between 0.00 and 120.00 mins: | 127.69 Sq m  | 2.21%          |
| Area over 120.00 mins:             | 5650.41 Sq m | 97.79%         |

Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

TP BENNETT  
IR21-110213

IR22-120213  
10417\_C01\_GIA.dwg

IR23-130213  
10417\_C01\_GIA Extra massing.dwg

Notes

N.B. DO NOT SCALE OFF THIS DRAWING

LATITUDE 51.53  
LONGITUDE -0.13

AREA RECEIVING LESS THAN  
2 HOURS SUNLIGHT

AREA RECEIVING MORE THAN  
2 HOURS SUNLIGHT

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

SUN ON GROUND ANALYSIS  
PROPOSED SCENARIO

Scale  
1:800 @ A3

Date  
13.02.13

Drawn  
JH

Checked

Drawing No.  
6173-43

Rel No.  
06

Revision  
A

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# APPENDIX 5

CONTOUR PLOTS



GROUND



FIRST

Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

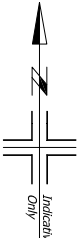
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IR22-120213  
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IR23-130213  
10417\_C01\_GIA Extra massing.dwg

Notes

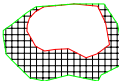
N.B. DO NOT SCALE OFF THIS DRAWING



Existing Contour



Proposed Contour



Hatched area shows light  
lost between Existing  
& Proposed Contours

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

DAYLIGHT DISTRIBUTION CONTOURS  
PROPOSED SCHEME 130213  
28-51 SINCLAIR HOUSE  
SANDWICH STREET

Scale  
1:150 @ A3

Date  
21.02.13

Drawn  
JH

Checked

|                        |               |               |
|------------------------|---------------|---------------|
| Drawing No.<br>6173-44 | Rel No.<br>06 | Revision<br>A |
|------------------------|---------------|---------------|



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mail@gia.uk.com  
www.gia.uk.com





SECOND



THIRD

Sources of Information

VERTEX MODELLING  
IR02-6173 - PHOTOGRAMMETRIC MODEL

FIND  
IR03-6173 - DIGITAL OS EXTRACT

MSA  
IR12-6173 - SITE SURVEY

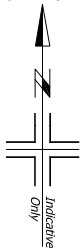
TP BENNETT  
IR21-110213

IR22-120213  
10417\_C01\_GIA.dwg

IR23-130213  
10417\_C01\_GIA Extra massing.dwg

Notes

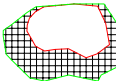
N.B. DO NOT SCALE OFF THIS DRAWING



Existing Contour



Proposed Contour



Hatched area shows light lost between Existing & Proposed Contours

| Rev | Date | Description   | Initials |
|-----|------|---------------|----------|
| A   |      | Initial Issue |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |
|     |      |               |          |

Project

CARTWRIGHT GARDENS  
LONDON WC1

Title

DAYLIGHT DISTRIBUTION CONTOURS  
PROPOSED SCHEME 130213  
28-51 SINCLAIR HOUSE  
SANDWICH STREET

|            |          |
|------------|----------|
| Scale      | Date     |
| 1:150 @ A3 | 21.02.13 |

|       |         |
|-------|---------|
| Drawn | Checked |
| JH    |         |

|             |         |          |
|-------------|---------|----------|
| Drawing No. | Rel No. | Revision |
| 6173-45     | 06      | A        |



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