



Daylight and Sunlight

Talbot Mill, Manchester

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Principles of Daylight and Sunlight
Existing Drawings: 0231-REL01-IS01-001 to 0231-REL01-IS01-003
Proposed Drawings: 0231-REL01-IS01-004 to 0231-REL01-IS01-006
Results & Contour Plots

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1.0 Executive Summary

We have undertaken a daylight and sunlight assessment for the proposed Talbot Mill development at Ellesmere Street, Manchester.

The results for each property are summarised in the table below:

	Percentage of Windows Compliant for VSC daylight	Percentage of Rooms Compliant for ADF daylight	Percentage of Rooms Compliant for NSL	Percentage of Rooms Compliant for APSH sunlight
Timber Wharf	147/155 (95%)	130/142 (92%)	136/142 (96%)	141/142 (99%)
Burton Place	44/94 (47%)	74/87 (85%)	70/87 (81%)	60/77 (78%)
Roof Gardens	169/169 (100%)	121/121 (100%)	118/121 (98%)	47/47 (100%)
Ellesmere Street Townhouse	6/6 (100%)	4/4 (100%)	4/4 (100%)	1/1 (100%)
Britannia Mills	112/127 (88%)	88/88 (100%)	85/88 (97%)	41/41 (100%)

It is inevitable when constructing buildings in an urban environment that alterations in daylight and sunlight to adjoining properties can occur. It is well-established and accepted that the BRE Guidelines, which set out the numerical benchmark for daylight and sunlight assessments, are predicated on a relatively low rise suburban environment.

As such, in our view, considering the nature of the developments, these results are acceptable.

2.0 Instructions

GIA have been instructed by Capital & Centric to undertake detailed technical assessments to understand the potential daylight and sunlight changes that the proposed Talbot Mill development at Ellesmere Street, Manchester, will have upon the surrounding residential properties.

The daylight and sunlight review within this report considers residential properties only as they are recognised by the Building Research Establishment (BRE 2011) as having the highest expectation for natural light when compared to other uses – such as commercial. The criteria suggested within the BRE have been used to understand and compare the existing levels of light, and the light achieved subsequent to the development of the proposed scheme.

3.0 Introduction

Daylight and Sunlight

The technical analysis that forms the basis of this report has been predicated against the methodologies set out within the Building Research Establishment Guidelines entitled '*Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice (2011)*'. The guidelines in question are precisely that: guidelines which provide a recommendation to inform site layout and design. They are not mandatory nor do they form planning policy and their interpretation may be treated flexibly depending on the specifics of each site.

The BRE Guidelines provide three methodologies for daylight assessment, namely;

- The Vertical Sky Component (VSC)
- The No Sky Line (NSL); and
- The Average Daylight Factor (ADF)

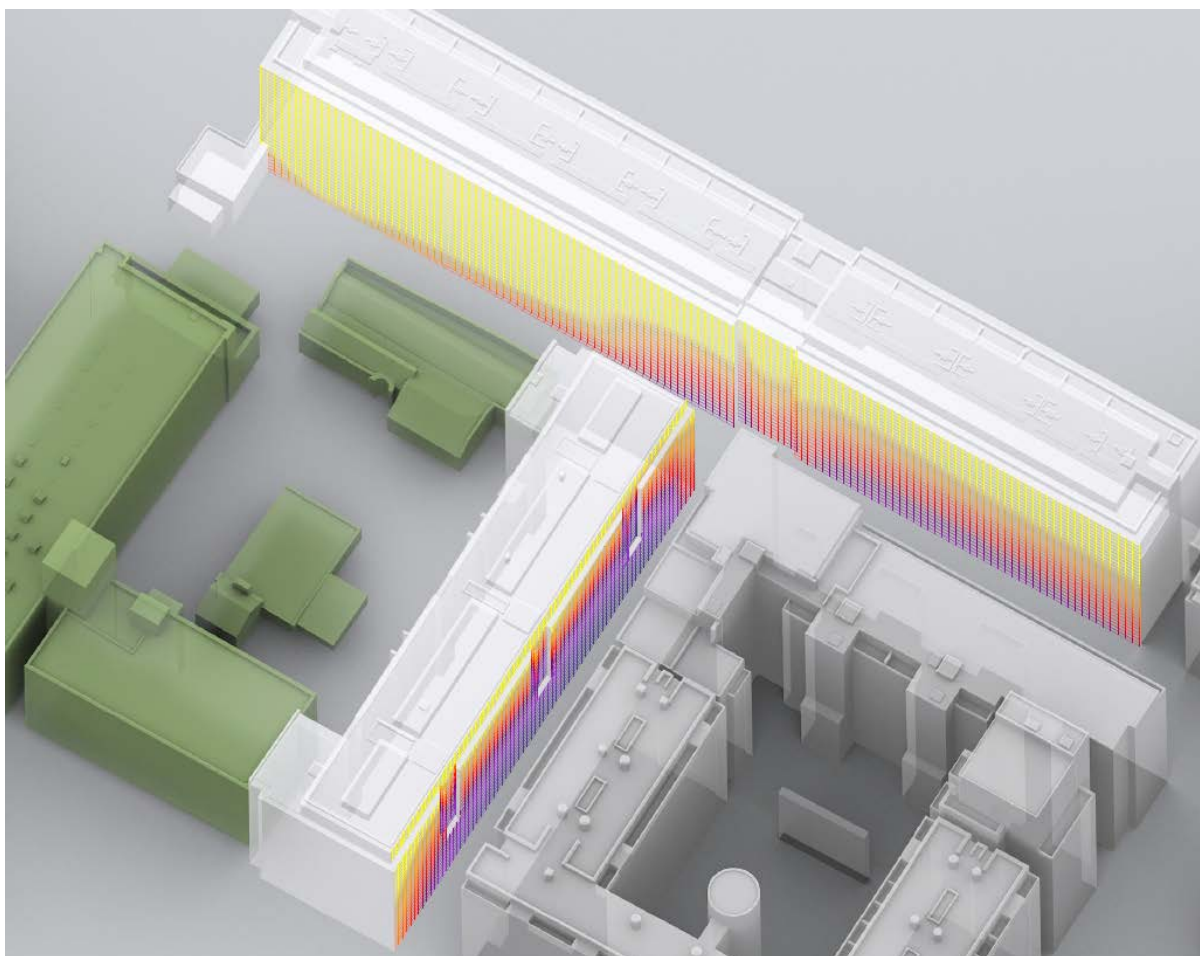
There is one methodology for sunlight assessment, denoted as Annual Probable Sunlight Hours (APSH).

Appendix 01 of this report elaborates on the mechanics of each of the above assessment criteria, explains the appropriateness of their use, and the parameters of each specific recommendation.

It is well-established and accepted that the BRE Guidelines, which set out the numerical benchmark for daylight and sunlight assessments, are predicated on a relatively low rise suburban environment. The methodologies and the resultant BRE daylight and sunlight recommendations are also based upon this suburban model. The guidance provided by the BRE is not mandatory and it is principally proposed to aid the architects and planners in achieving good site design. Clearly, in more densely developed urban locations and urban areas such as this site, the technical specifications recommended by the BRE Guidelines need to be treated with care.

As a result of this, the Guide states that different targets may be used based on the proposed development or its location. To ensure that new development matches the height and proportions of existing buildings, Appendix F provides guidance on alternative targets. It is important that these alternative targets are self-consistent.

We have undertaken an analysis of the retained VSC daylight levels to Timber Wharf and Burton Place, as shown in the drawing extract below:



Our assessment indicates that there is an existing average of 14.16% VSC within the immediate surrounding area along Worsley Street and Burton Place.

It is accepted that these retained VSC levels are only characterised by the tight urban nature of the front facades of the buildings along Worsley Street and Burton Place, and as such, it may not be appropriate to apply this same 14% VSC target to the other elevations.

The VSC target for the other buildings has therefore been set at 20.5% VSC, which represents an average of the sub-urban target of 27%, and the existing retained levels of 14% within the immediate surrounding area. This target also accords with our experience of other recent applications in Castlefield and Great Jackson Street.

Appendix F of the BRE Guide also describes a mirrored massing approach. To ensure that the new development matches the height and proportions of existing surrounding properties on Ellesmere Street, the daylight and sunlight targets for Timber Wharf have been set to those for a “mirror image” building of the same height and size, and equal distance away from the other side of the boundary.

The 1.5% ADF living room target has been applied to the living kitchen diners identified within our analysis, or where the room use is unknown. In our view, this is more appropriate than applying the higher sub-urban family kitchen target of 2% ADF.

4.0 Sources of Information

In compiling this report we have used the following information:

GIA

Site photographs

FIND Maps

OS Map

Cinns

IR01-170106-CINNS

Vertex Modelling

IR02-170111-VERTEX

ShedKM Architects

IR09-170905-SHEDKM

Manchester Planning Portal

IR03-PLANNING PORTAL

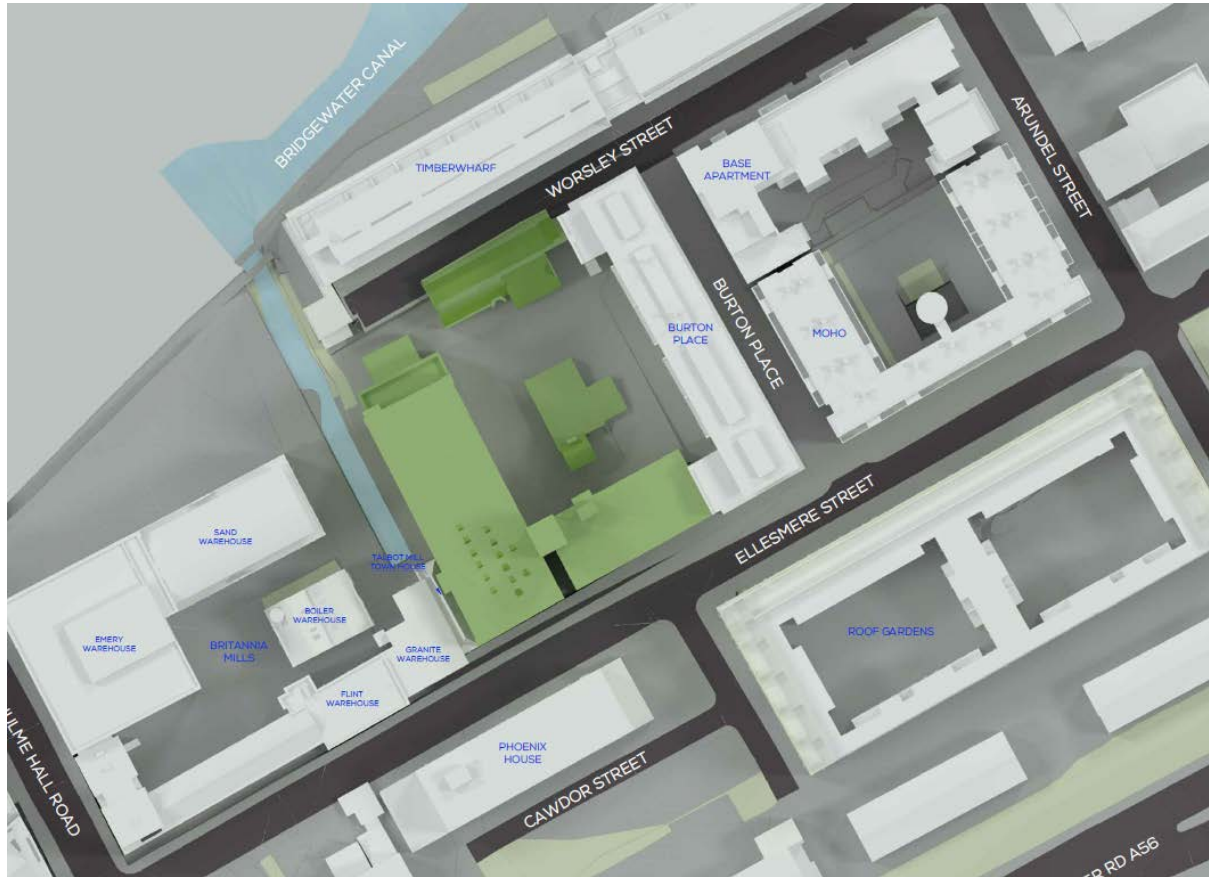
5.0 Assumptions

- a) The model has been produced using high resolution aerial photography and thus there is a degree of tolerance (150mm). GIA have sought to create the most accurate model possible based on the data available, however, a degree of tolerance should be applied to this model. Where information was not available best assumptions have been used.
- b) The scope of buildings assessed has been determined as a reasonable zone which considers both the scale of the proposed scheme and the proximity of those buildings which surround and face the site. There may be properties outside of the considered scope that are affected by the scheme, however, undertaking assessments beyond this area would not be commensurate with industry practices (nor cost effective) for a scheme of this size.
- c) The property uses have been estimated by reference to a Valuation Office Agency search.
- d) For the purpose of our surrounding ADF analysis the following assumptions have been used:
 - Transmittance: 0.63
 - Reflectance: 0.5
- e) Floor levels have been assumed for adjoining properties as access has not been obtained. This dictates the level of the working plane which is the point at which no skyline assessments are carried out.

6.0 The Site

The site is bounded by Ellesmere Street to the south, Burton Place apartments to the east. Timber Wharf apartments to the north, and the Bridgewater Canal branch to the west.

The drawing extract below shows the existing site:



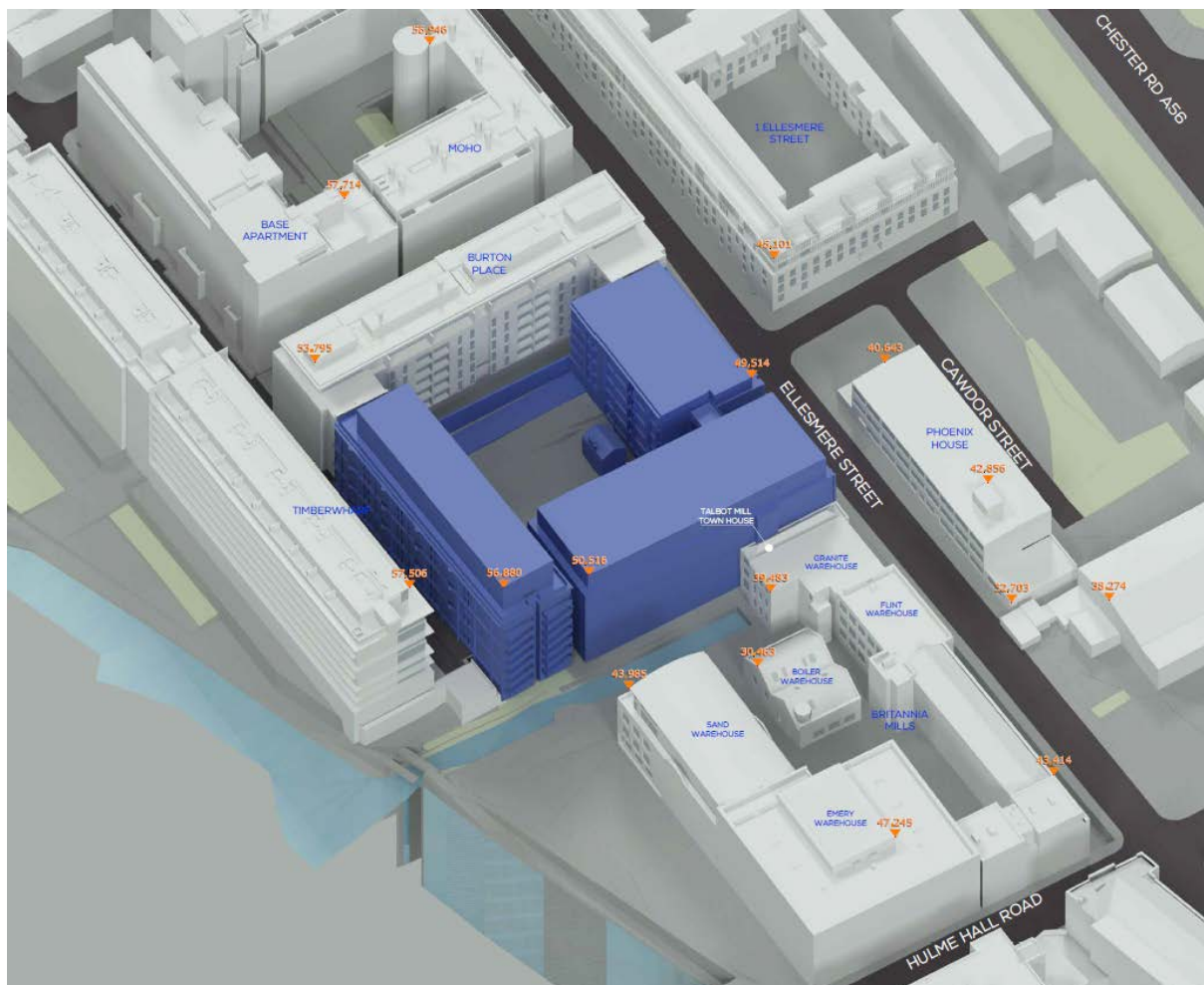
Our understanding of this existing building and the surrounding context is depicted on GIA drawings 0231-REL01-IS01-001, 0231-REL01-IS01-002 and 0231-REL01-IS01-003 within Appendix 02.

7.0 The Proposal

The development comprises the conversion of the Talbot Mill complex to create 114 residential apartments (Use Class C3), including rooftop extensions to Mill 1 and 2, and rear extension to Mill 1; demolition of Buildings A, B and C; retrospective application for demolition of Building E; erection of a 9 storey building plus 1 basement level, to provide 88 residential apartments (Use Class C3); and creation of new landscaped courtyard, lighting and other associated works.

GIA's understanding of the proposed scheme is illustrated in drawings 0231-REL04-IS01-004, 0231-REL04-IS01-005 and 0231-REL04-IS01-006 shown within Appendix 03.

Our analysis of this option is based on the proposed scheme massing models produced by ShedKM Architects received on 31 August 2017.



8.0 Surrounding Properties

We have created a three dimensional computer model of the site and the surrounding properties to allow for a detailed daylight and sunlight assessment.

The benchmark condition of the site allows us to calculate the daylight and sunlight conditions within the neighbouring buildings. From this, we can then compare them with the conditions within these properties assuming the current proposed development is in place.

The pertinent residential accommodation, which is relevant for daylight and sunlight assessment, is set out in the table below:

Name/Address of Building	Position in Relation to the Development
Timber Wharf	North
Burton Place	East
Roof Gardens	South east
Ellesmere Street Townhouse	South west
Britannia Mills	West

A short commentary of the impacts of the current proposal to each property is listed below:

Timberwharf



Our detailed technical analysis using the mirrored mass baseline demonstrates that 147/155 (95%) of windows relevant for assessment show full compliance to the VSC methodology within the BRE Guidelines. 130/142 (92%) of the rooms will comply with the ADF criteria.

When assessed against the second daylight methodology, the NSL, 136/142 (96%) of the rooms show full compliance to the recommendations within the BRE Guidelines.

When assessed against the APSH (Sunlight criterion), 141/142 (99%) of the rooms relevant for assessment show full compliance to the BRE Guidelines and are therefore considered acceptable.

A large proportion of the windows will receive better daylight (78% of windows) and sunlight (75% of windows) levels with the proposed development in place, than they would do with if the proposed development matched the scale and proportions of the existing Timber Wharf.

For these reasons, we consider that the results are acceptable.

Burton Place



Our technical analysis shows that 44/94 (47%) of the windows will meet the VSC daylight targets. 74/87 (85%) of the rooms will meet the ADF daylight targets.

Except for two rooms, all of the rooms that do not meet the ADF targets are bedrooms, which have a lesser requirement for daylight. Generally, the reductions caused by the proposed development are modest, however they are proportionally larger due to the low levels of daylight in the existing scenario. The two living rooms that do not meet the ADF targets do not meet them in the existing scenario, and the proposed development will only result in a 0.3% ADF reduction.

70/87 (81%) of the rooms show full compliance to the BRE NSL Guidelines. The rooms that do not meet the NSL target are bedrooms, with relatively small windows.

Considering these factors, in our view the daylight impacts are acceptable.

When assessed against the APSH (Sunlight criterion), 60/77 (78%) of the rooms relevant for assessment show full compliance to the BRE Guidelines.

The rooms that do not meet the sunlight targets generally meet the annual target, but do not meet the winter target. Low level winter sunlight is more difficult to receive in an urban environment due to the denser surrounding buildings. The previously unusual open aspect towards Worsley Street also means that there is a greater reduction to those rooms that face that direction.

Overall, we consider that the sunlight results are also acceptable.

Roof Gardens



Our technical analysis shows full compliance with the VSC and ADF daylight criteria. 118/121 (98%) of the rooms show full compliance to the BRE NSL Guidelines and thus we consider the daylight impacts acceptable.

The three rooms that do not meet the NSL targets will still receive a direct view of the sky to over 50% of their area, which is still a good level of light. It is important to consider that this building is not occupied, and so has a much lower sensitivity to changes in light levels than an occupied residential building.

When assessed against the APSH (Sunlight criterion), all the rooms relevant for assessment show full compliance to the BRE Guidelines and are therefore considered acceptable.

Ellesmere Street Townhouse



Our technical analysis shows full compliance with the daylight and sunlight criteria.

Britannia Mills



Our technical analysis shows that 112/127 (88%) of the windows will meet the VSC daylight targets. 88/88 (100%) of the rooms will meet the ADF daylight targets.

85/88 (97%) of the rooms show full compliance to the BRE NSL Guidelines.

When assessed against the APSH (Sunlight criterion), all of the rooms relevant for assessment show full compliance to the BRE Guidelines and are therefore considered acceptable.

Overall, these compliance levels are considered to be very good for an urban location.

9.0 Conclusions

We have undertaken a daylight and sunlight assessment for the proposed Talbot Mill development at Ellesmere Street, Manchester.

The results show a good overall level of compliance. Where windows/rooms do not meet the targets, they are generally bedrooms, or the proposed sunlight levels are commensurate with the nature and architecture of the surrounding environment. Given these factors, in our view, the results of our assessment are entirely acceptable.

Appendix 01

Principles of Daylight and Sunlight

Principles of Daylight and Sunlight

Background

The quality of amenity and open spaces is often stipulated within planning policy for protection or enhancement and is often a concern for adjoining properties and other interested parties.

Historically the department of environment provided guidance in the issues, and in this country, this role has now been taken on by the building research establishment (BRE), the British standards institutions (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 the form of industry best practice.

Many local planning authorities consider daylight and sunlight an important factor for determining planning applications. Policies refer to both the protection of daylight and sunlight amenity within existing properties as well as the creation of proposed dwellings with high levels of daylight and sunlight amenities.

In terms of considering what is material local authorities typically refer to the BRE guidelines and apply their criteria set out within. The guidelines were originally produced out in 1991, but superseded by the BRE guidelines (2011) *site layout planning for daylight and sunlight*.

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. Particularly in London, there is a priority on the creation of more housing and thus resulting in the densification of urban areas. Local authorities vary in their attitude of how flexible they can be with the degree of impact on the daylight and sunlight amenity enjoyed by neighbouring owners and it is one factor among many planning aspects considered when determining an application. In city centres where high density is common, the protection of amenity is more challenging and there are many factors that need to be taken into account: each case has to be considered on its own merits.

The BRE Guidelines

The guidelines are typically referred to for daylight and sunlight amenity issues, however they were not intended to be used as an instrument of planning policy. 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, or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings".

Again, the paragraph 2.2.3 (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".

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The numerical criteria suggested by the BRE are therefore designed to provide industry advice/guidance to plan/design with daylight in mind. Alternative values may be appropriate in certain circumstances such as highly dense urban areas around London, for e.g. The approach to creating alternative criteria is detailed within Appendix F of the BRE.

Measurement and Criteria for Daylight and Sunlight as set out in the BRE Guidelines

The BRE guidelines state that they are;

"intended for use for rooms in adjoining dwellings where daylight is required, including living rooms, kitchens and bedroom. Windows to bathrooms, toilets, garages need not be analysed."

They are therefore primarily designed to be used for residential properties however, the BRE guidelines continue to state that they may be applied to any existing non-residential buildings where there may be a reasonable expectation of daylight including; schools, hospitals, hostels, small workshop and some offices.

Daylight

In the first instance, if a proposed development falls beneath a 25 degree angle taken from the centre point of the lowest window, then the BRE suggests that no further analysis is required as there will be adequate sky light (i.e. sky visibility). This rule is applied when considering the scope of any assessments.

The BRE guidelines provide two methods for calculating daylight to existing surrounding properties:

- Vertical Sky Component (VSC)
- No Sky Line (NSL) also referred to as daylight distribution

A further method, the Average Daylight Factor (ADF) is provided for calculating daylight within proposed properties. However, it is sometimes applied as a supplementary assessment for existing surrounding properties.

Each method is described below:

Vertical Sky Component

Methodology

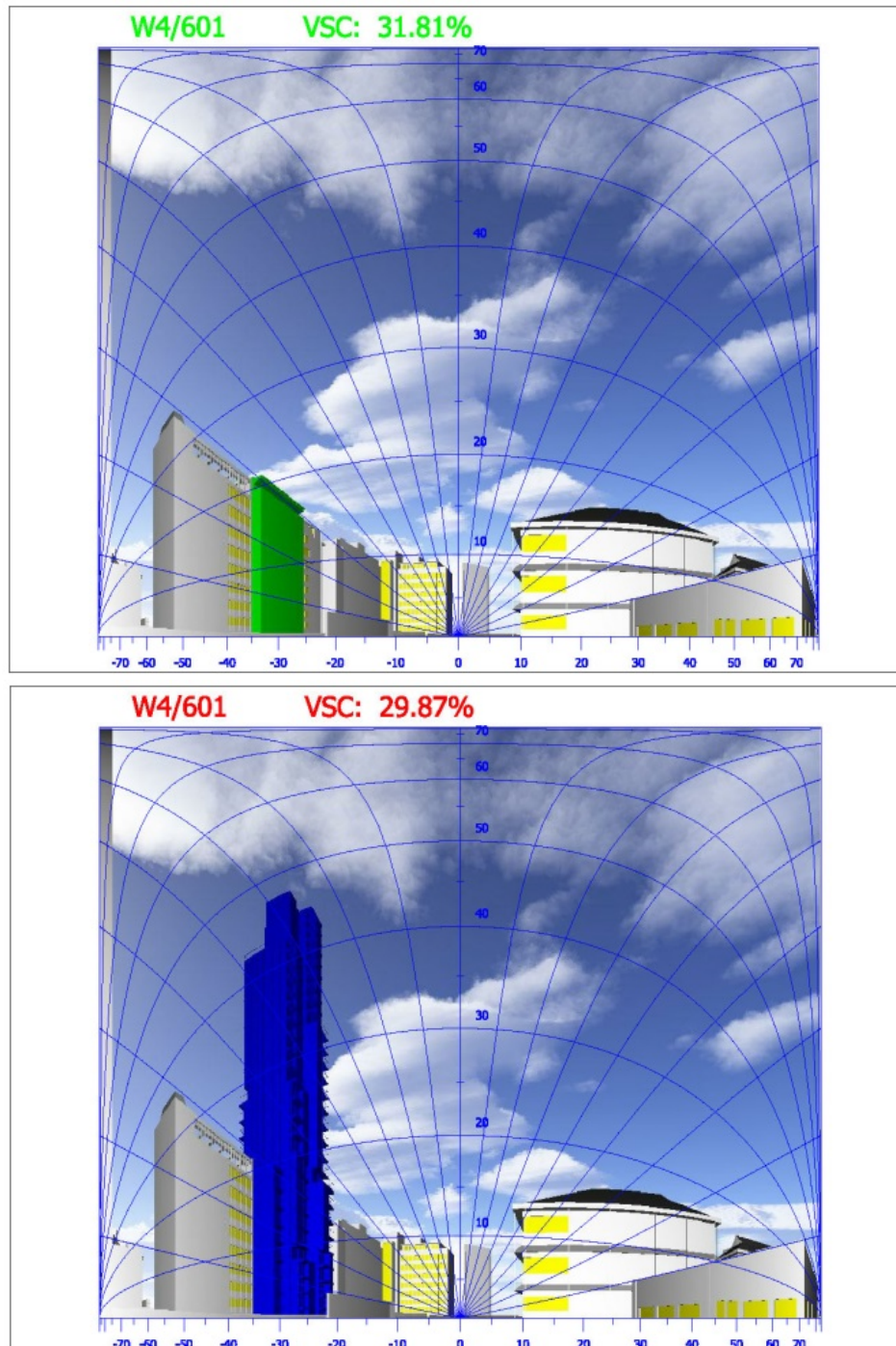
This is defined in the BRE as:-

"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."

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.

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Alternatively a further method of measuring the VSC, 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, at the centre of the outward window face. Effectively a snap shot is taken from that point of the sky in front of the window, before and after the obstruction is put in place together with all the relevant obstructions to it, i.e. the buildings.

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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.

Criteria

The BRE Handbook provides criteria for:

- (a) New Development
- (b) Existing Buildings
- (c) Adjoining Development Land

- (a) New Development

Paragraph 2.1.21 of the BRE states that:

"Obstructions can limit access to light from the sky. This can be checked by measuring or calculating the angle of visible sky 'theta', angle of obstruction or Vertical Sky Component (VSC) at the centre of the lowest window where daylight is required. If VSC is:

- at least 27% ('theta' is greater than 65 degrees, obstruction angle less than 25 degrees) conventional window design will usually give reasonable results.
- between 15% and 27 % ('theta' is between 45 degrees and 65 degrees, obstruction angle between 25 degrees and 45 degrees) special measures (larger windows, changes to room layout) are usually needed to provide adequate daylight.
- between 5% and 15% ('theta' is between 25 degrees and 45 degrees, obstruction angle between 45 degrees and 65 degrees) it is very difficult to provide adequate daylight unless very large windows are used.
- less than 5% ('theta' less than 25 degrees, obstruction angle more than 65 degrees) it is often impossible to achieve reasonable daylight, even if the whole window wall is glazed."

- (b) Existing Buildings

Para 2.2.21 (page 11) of the BRE states:

"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 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".

The VSC provide a quick and simple test which looks to give an early indication of the potential for light at the window face. However considered in isolation, 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.

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(c) Adjoining Development Land

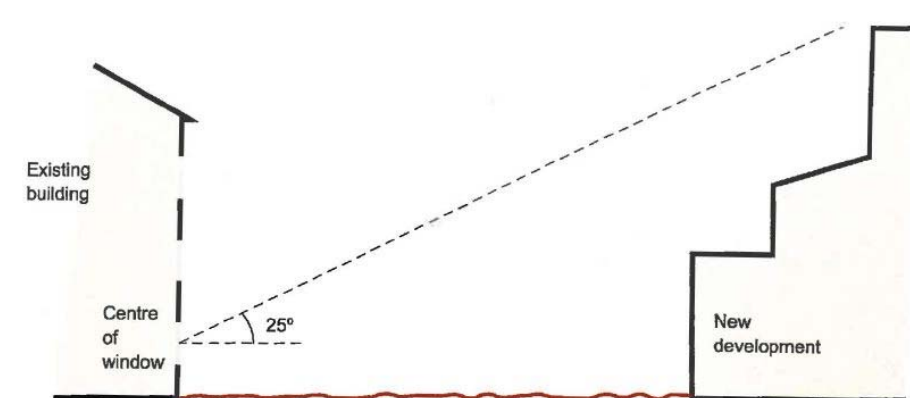
Paragraph 2.3.10 of the BRE guidelines states:

"in broad general terms, a development site next to a proposed new building will retain the potential for good diffuse daylighting provided that on each common boundary:

- (a) no new building, measured in a vertical section perpendicular to the boundary, from a point 1.6m above ground level, subtends an angle of more than 43 degrees to the horizontal;*
- (b) or, if (a) is not satisfied, then all points 16m above the boundary line are within 4m (measured along the boundary) of a point which has a VSC (looking towards the new building(s)) of 17% or more 2m above ground level are within 4m (measured sideways) of a point which has a vertical sky component of 27% or more.*

Alternative VSC criteria as per Appendix F of the BRE guidelines

The 27% VSC target criteria is based upon a sub-urban type environment whereby a 25 degree line was taken from the centre point on a ground floor window as shown below:



However, in city centre locations and urban areas where density levels are increasing, these values may not be considered appropriate. The BRE guidelines provide that *"different targets may be used based on the special requirements of the proposed development or its location"* (paragraph F1).

Appendix F of the BRE suggests several approaches as to how alternative targets may be considered including:

- Consented scheme – use of an extant planning permission to establish alternative benchmark criteria for VSC and APSH. It is not appropriate to treat a permitted scheme in the same manner as an existing building and allow a 20% reduction beyond this. If the levels of daylight and sunlight retained are similar to a previously consented scheme then it follows these levels should be considered acceptable again, notwithstanding other planning considerations.
- Mirror massing – to ensure a development matches the height and proportions of existing buildings, the VSC and APSH targets could be set to those of a mirror image of the same height and size, an equal distance away from the boundary (paragraph F5).
- Consider surrounding context and existing obstruction angles as well as spacing to height ratios.

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In addition, due to the requirements for external amenity space within local planning policies, many residential buildings are served by balconies. Balconies can restrict the view of the sky dome whereby even the modest obstruction may result in a large relative impact on the VSC. The BRE guidelines therefore provide that an assessment can be carried out comparing the levels of VSC with and without the balconies in place for both the existing and proposed scenarios, to establish whether it is the presence of the balcony or the size of the new obstruction that is the main factor in the loss of light (paragraph 2.2.11).

No Sky Line

Methodology

The NSL method is a measure of the distribution of daylight at the working plane within a room. The 'working plane' means a horizontal 'desktop' plane 0.85m in height for residential properties. The NSL divides those areas of the working plane which can receive direct sky light from those which cannot. If a significant area of the working plane lies beyond the NSL (i.e. it receives no direct sky light), then the distribution of daylight in the room will be poor and supplementary electric lighting may be required.

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 be noticeable. It is however, very dependent upon knowing the actual room layouts or having a reasonable understanding of the likely layouts.

It is assessed by plotting the area of a room which can see the sky and which cannot, referred to as the NSL contour or daylight distribution contour. The contours 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.

Criteria

BS 8206 Part 2 (para 5.7) that the:

"uniformity of daylight is considered to be unsatisfactory if a significant part of the working plane (normally more than 20%) lies behind the no-sky line".

Therefore, it is implied that an NSL of at least 80% would be considered satisfactory in regards to deep rooms which are lit by windows on one side, the BRE Guidelines state (para, 2.2.10):

In regards to the alteration as a result of a proposed development or obstruction the BRE provide that the daylight may be adversely affected if *"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."*

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Average Daylight Factor

Methodology

The Average Daylight Factor (ADF) is defined within the 2011 BRE Guidelines as:

'a ratio of total daylight flux incident on a reference area to the total area of the reference area, expressed as a percentage of outdoor luminance on a horizontal plane, due to an unobstructed sky of assumed or known luminance distribution'.

Whilst the BRE guidelines provide this measure as a tool to understand daylight within proposed dwellings not existing dwellings, if room layouts are known it can provide a useful supplementary measure of daylight and is often requested by many local authorities.

The ADF method of assessment considers:

- The diffuse visible transmittance of the glazing to the room in question (i.e. how much light gets through the window glass). A transmittance value of 0.8% is assumed for single glazing and 0.65% for double glazed windows;
- The net glazed area of the window in question;
- The total area of the room surfaces (ceiling, walls, floor and windows); and
- The angle of visible sky reaching the window(s) in question

In addition, the ADF method makes allowance for the average reflectance of the internal surfaces of the room and of external obstruction (assumed to be 0.5 unless otherwise stated).

Criteria

The criteria for ADF is taken from the British Standard 8206 part II which gives the following criteria based on the room use:

- Bedroom – 1% ADF
- Living room – 1.5% ADF
- Kitchen – 2% ADF

Where a room has multiple uses such as a living kitchen diner (LKD) or a studio apartment, the highest value is taken so in these cases the required ADF is 2%.

Sunlight

Methodology

The BS 8206 part 2 (section 5.2) states that:

"Provided that the entry of sunlight is properly controlled, it is generally welcome in most buildings in the UK. Dissatisfaction can arise as much from the permanent exclusion of sunlight as from its excess. The provision of sunlight is important in dwellings, particularly during winter months. Sunlight is especially valued in habitable rooms used for long periods during the day."

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Sunlight is measured using a sun indicator which contains 100 spots, each representing 1% of Annual Probable Sunlight Hours (APSH). Where no obstruction exists the total APSH would amount to 1486 hours and therefore each spot equates to 14.86 hours of the total annual sunlight hours.

The number of spots is calculated for both the whole year and also during the winter period (21st September to 21st March) prior to an obstruction and after the obstruction is put in place. This provides a percentage of APSH for each of the time periods for each window assessed. The 2011 BRE Guidelines note that:

- *"In housing, the main requirement for sunlight is in living rooms, where it is valued at any time of day, but especially in the afternoon."*
- *"all main living rooms of dwellings...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"; and*
- *"If the main living room to a dwelling has a main window facing within 90° of due north, but a secondary window facing within 90° of due south, sunlight to the secondary window should be checked."*
- *"...a south facing window will, in general, receive most sunlight, while a north facing one will receive it only on a handful of occasions. East and west facing windows will receive sunlight only at certain times of day".*

When a room has multiple windows, not all may have a southerly orientation however, these windows may contribute to the levels of sunlight within a given room even if by 1-2% APSH. As well as the assessment on a window basis the BRE guidelines provide that an assessment can be undertaken on a room basis.

Whilst the emphasis of the BRE guidelines is in regards to living rooms, it is not always possible to determine the room uses within all of the properties assessed and therefore typically all windows or all rooms with windows facing within 90 degrees of due south and facing the site are assessed.

Criteria

The BRE provide that for existing buildings a window maybe adversely affected if a point at the centre of a window receives:

- Less than 25% of the APSH during the whole year, of which 5% APSH must be in the winter period; and
- Receives less than 0.8 times its former sunlight hours in either time period; and
- Has a reduction in sunlight for the whole year more than 4% APSH.

In terms of the assessment on a room basis the criteria applied is the same.

For proposed buildings the BRE provide (paragraph 3.1.15) that a dwelling or building which has a particular requirement for sunlight will appear reasonably sunlit provided:

- At least one main window faces within 90 degrees of due south; and

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- Centre of one main living room window can receive 25% of APSH including 5% APSH in the winter months.

It continues that where groups of dwellings are planned the layout should aim to maximise the number of living rooms that meet the above recommendations.

Overshadowing

As well as daylight and sunlight amenity to neighbouring dwellings, planning policy often refers to the levels of overshadowing to amenity areas such as parks, public squares, playgrounds etc. The BRE guidelines provide two methods of calculation in regards to overshadowing which are as follows:

Sun Hours on Ground

Methodology

This method of overshadowing assessment uses the sun on ground indicator to determine the areas which receive direct sunlight and those which do not. This method applies to both new and existing areas of amenity space. The BRE Guidelines suggest that the Spring Equinox (21st March) is a suitable date for the assessment as this is the midpoint of the sun's position throughout the year. Using specialist software, the path of the sun is tracked to determine where the sun would reach the ground and where it would not.

Criteria

The BRE guidelines recommend that at least half of an amenity space should receive at least 2 hours of direct sunlight on March 21st. In regards to existing spaces where the existing sunlit area is less than half of the area, the area which receives 2 hours of sunlight should not be reduced by more than 20% (it should retain 0.8 times its former value).

Transient Overshadowing

The BRE guidelines suggest that where large buildings are proposed which may affect a number of gardens or open spaces, it is useful to plot a shadow plan to illustrate the location of shadows at different times of the day and year. For the purpose of this assessment, shadow has been mapped at the following times of the year:

- 21st March (spring equinox)
- 21st June (Summer solstice)
- 21st December (winter solstice)

The September equinox is not assessed as this would provide the same results as those for March 21st.

For each of these dates the overshadowing is calculated at hourly intervals throughout the day however some images may not be present given the early sun set during the winter period.

The BRE guidelines do not provide any criteria for transient overshadowing. Therefore the analysis provides a description of where additional shadow is cast as a result of a development with professional judgement to determine the effect comparing the shadow resulting from the proposed development against that of the existing site.

Principles of Daylight and Sunlight

Light pollution and Solar Glare

Light pollution is defined as any light emitting from artificial sources into spaces where it is not wanted for example from offices into neighbouring residential properties where it could cause a nuisance. The ILP Guidance notes provide details of how to measure light pollution and criteria based on the urban density of the respective area to determine the acceptability of the light levels.

Solar glare is particularly important at pedestrian and road junctions as well as along railway lines where the glare can cause a temporary blinding of drivers or pedestrians. Glare can occur from reflective materials such as glazed areas or metal cladding on the facades. This assessment is therefore undertaken from viewpoints surrounding the site at junctions and positioned at the driver's eye level. Focal points are dictated by the location of signals or oncoming traffic.

Other Amenity Considerations

Daylight and sunlight is one factor among many under the heading of residential amenity considerations for any given development design or planning application; others include:

- outlook
- sense of enclosure
- privacy
- access to outdoor space e.g. balconies or communal garden/courtyard

Appendix 02

Existing Drawings



SOURCES OF INFORMATION
IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR04-OLLIER SMURTHWAITE
IR05-OLLIER SMURTHWAITE CONFIRMATION

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

NOTES:
N.B. DO NOT SCALE OFF THIS DRAWING

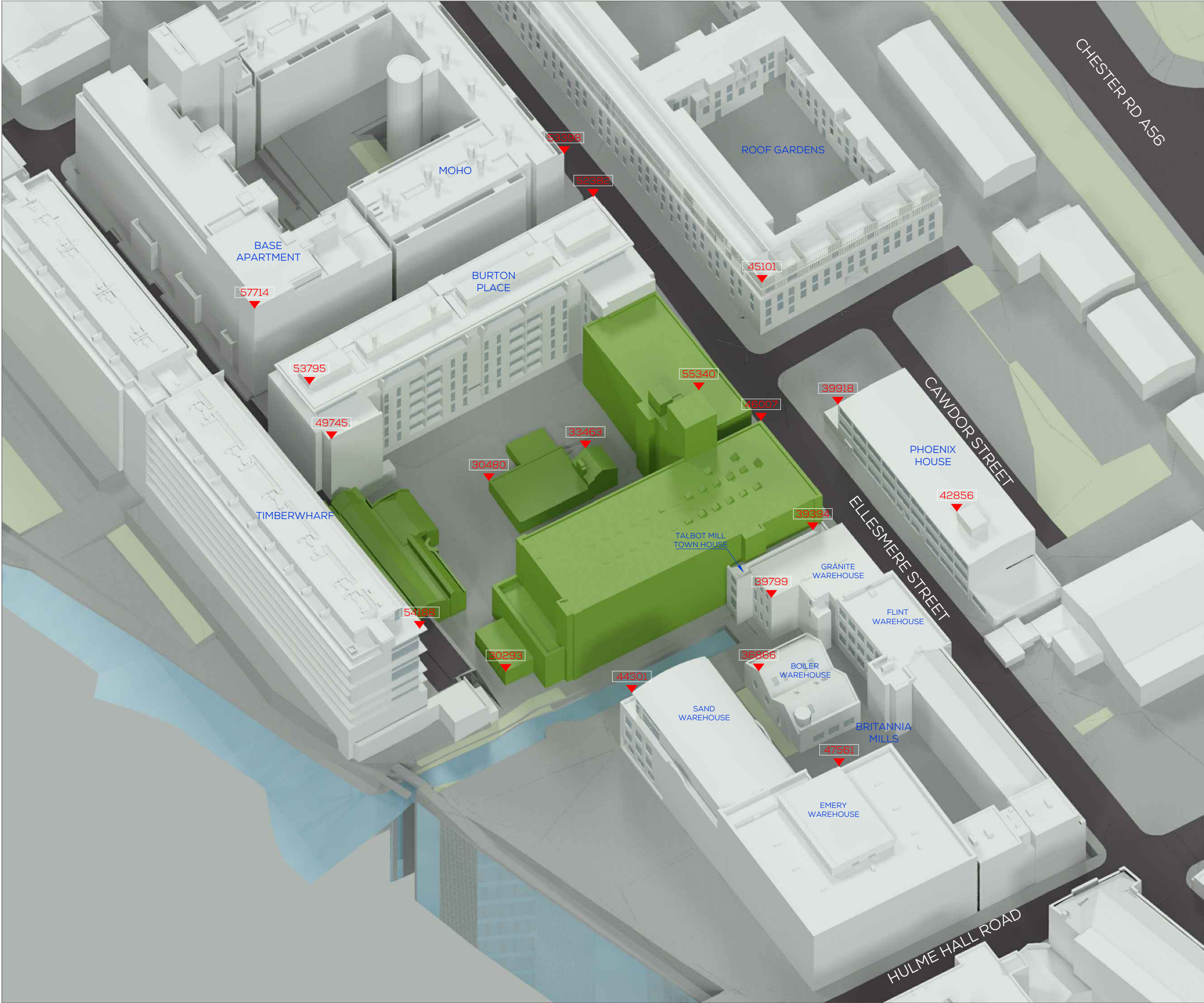


ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
EXISTING SCENARIO SHOWN IN GREEN

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:
PLAN VIEW
EXISTING SCENARIO
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:750 @ A3	BS	PV	FEB17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL01	IS01	001	-



SOURCES OF INFORMATION
IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR04-OLLIER SMURTHWAITE
IR05-OLLIER SMURTHWAITE CONFIRMATION

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

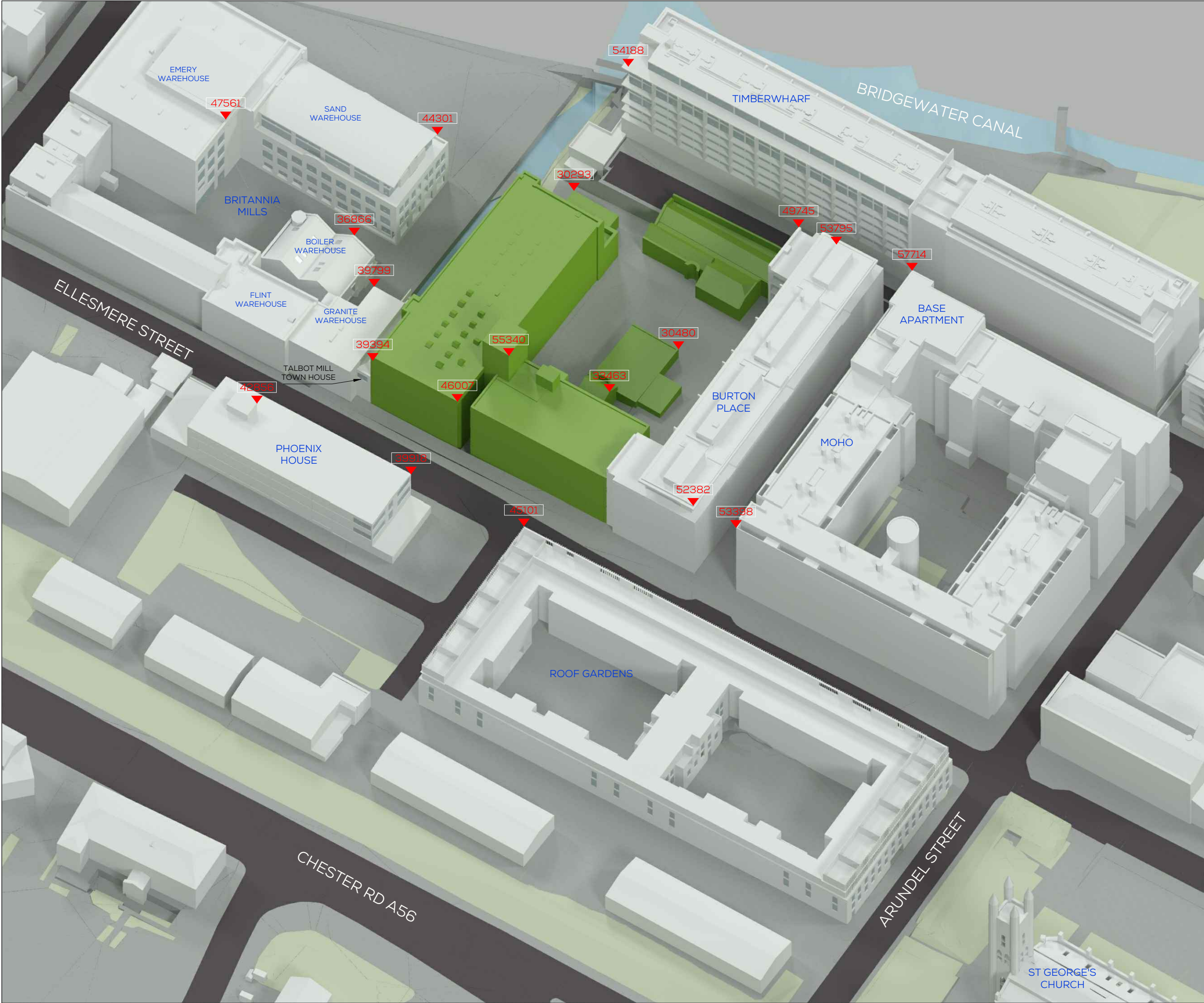
NOTES:
N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
EXISTING SCENARIO SHOWN IN GREEN

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:
PLAN VIEW
EXISTING SCENARIO
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	FEB17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL01	IS01	002	-



SOURCES OF INFORMATION
IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR04-OLLIER SMURTHWAITE
IR05-OLLIER SMURTHWAITE CONFIRMATION

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NOTES:
N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
EXISTING SCENARIO SHOWN IN GREEN

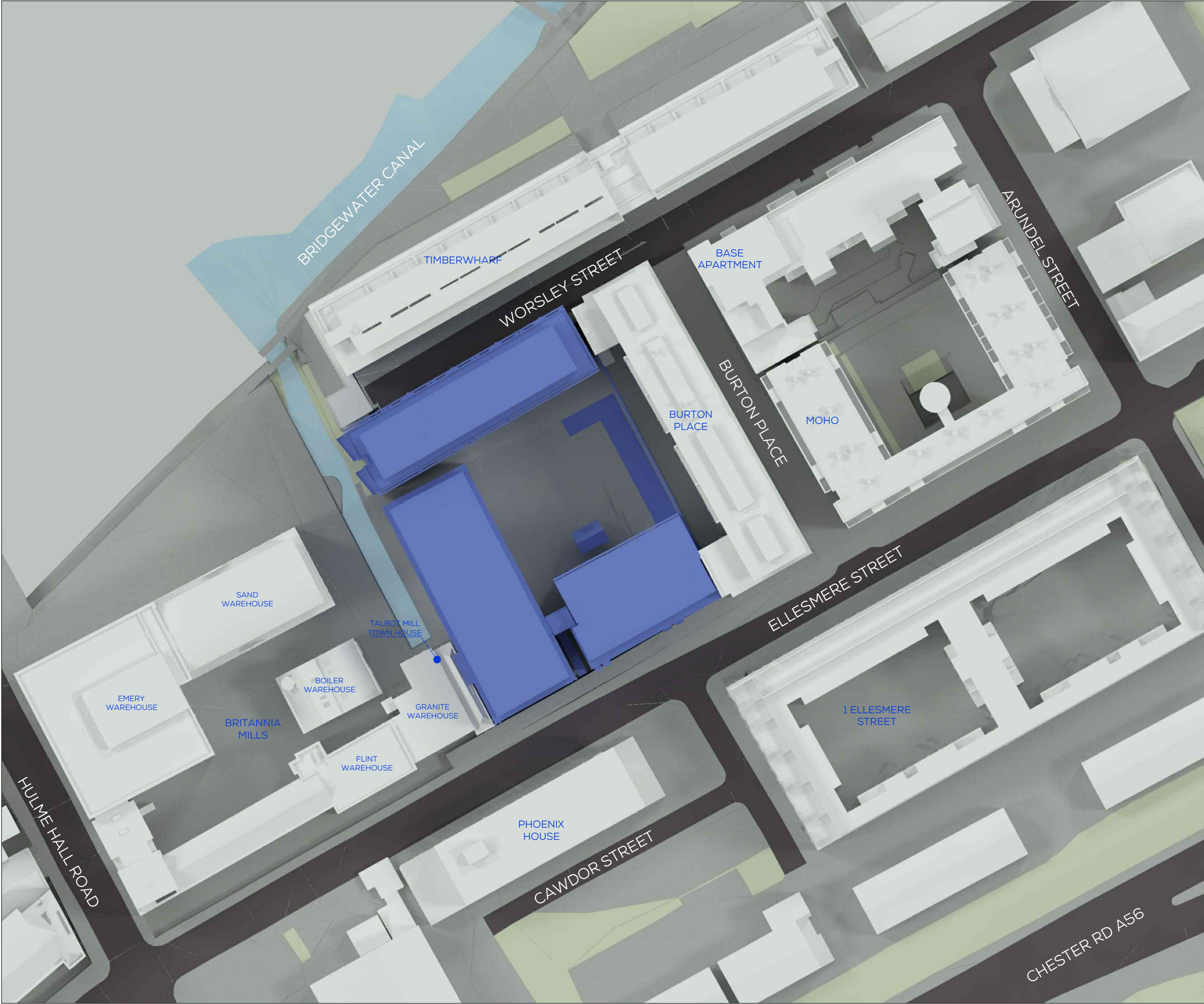
PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:
PLAN VIEW
EXISTING SCENARIO
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	JAN17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL01	IS01	003	-

Appendix 03

Proposed Drawings



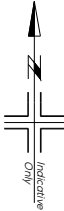
SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

NOTES:

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ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
PROPOSED SCHEME SHOWN IN BLUE

PROJECT:

TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:

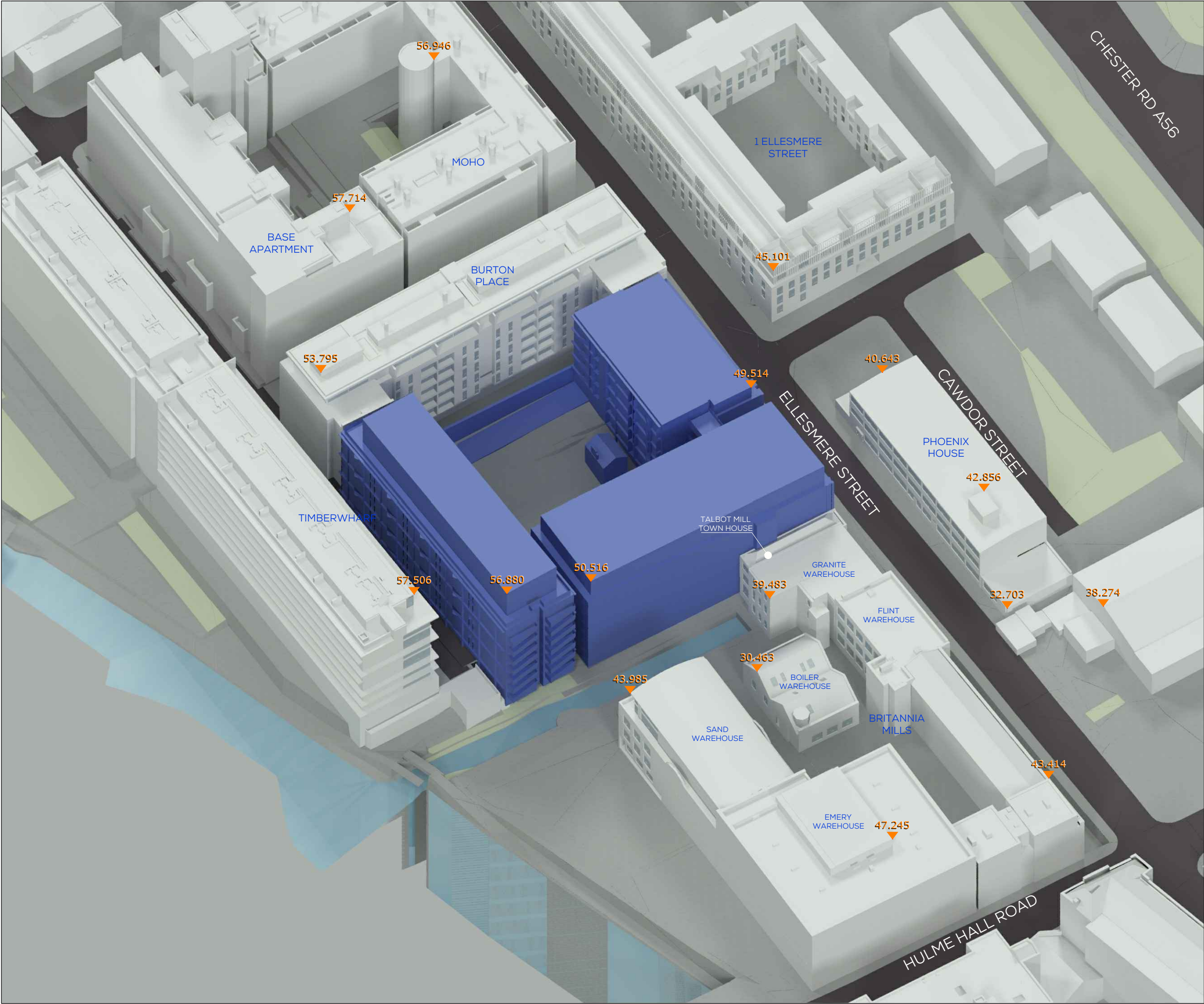
PLAN VIEW
PROPOSED SCHEME IR09
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:750@A3	BS	PV	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	IS01	004	-



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SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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NOTES:
N.B. DO NOT SCALE OFF THIS DRAWING

ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
PROPOSED SCHEME SHOWN IN BLUE

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:
PLAN VIEW
PROPOSED SCHEME IR09

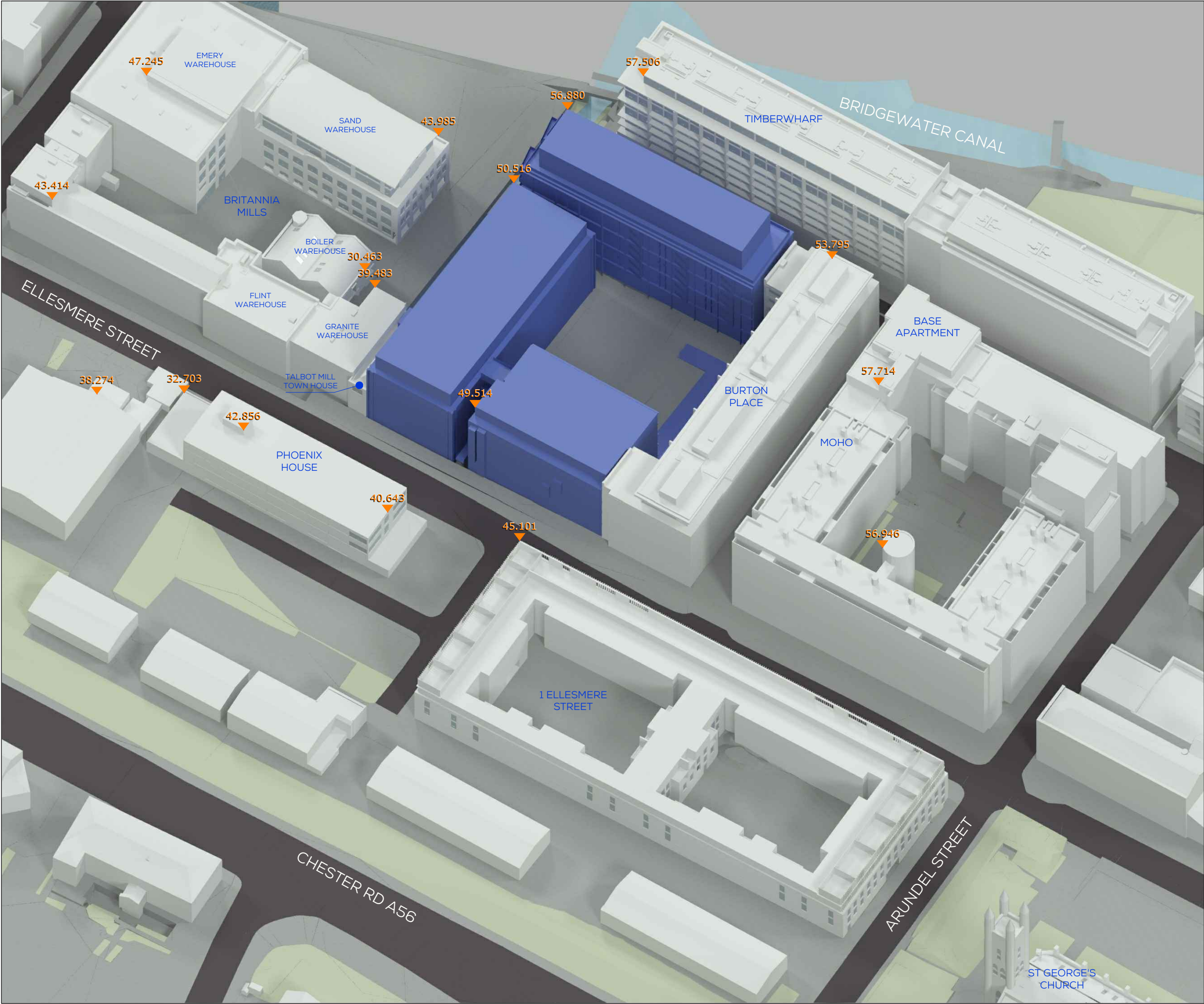
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	IS01	005	-



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SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
PROPOSED SCHEME SHOWN IN BLUE

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

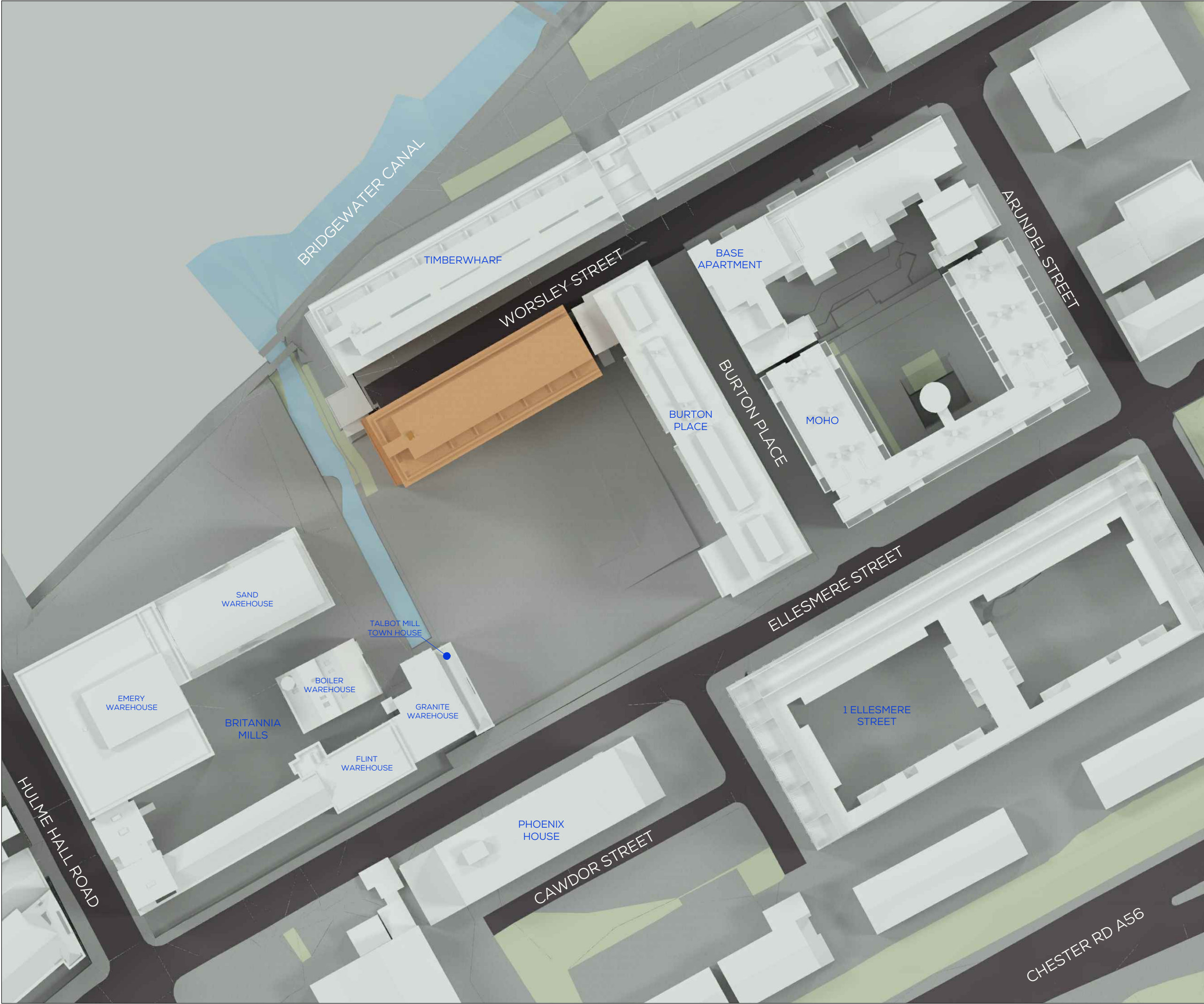
DRAWING NAME:
PLAN VIEW
PROPOSED SCHEME IR09
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	IS01	006	-

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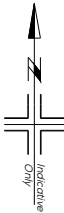


SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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NOTES:
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ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
MIRROR MASSING SHOWN IN ORANGE

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

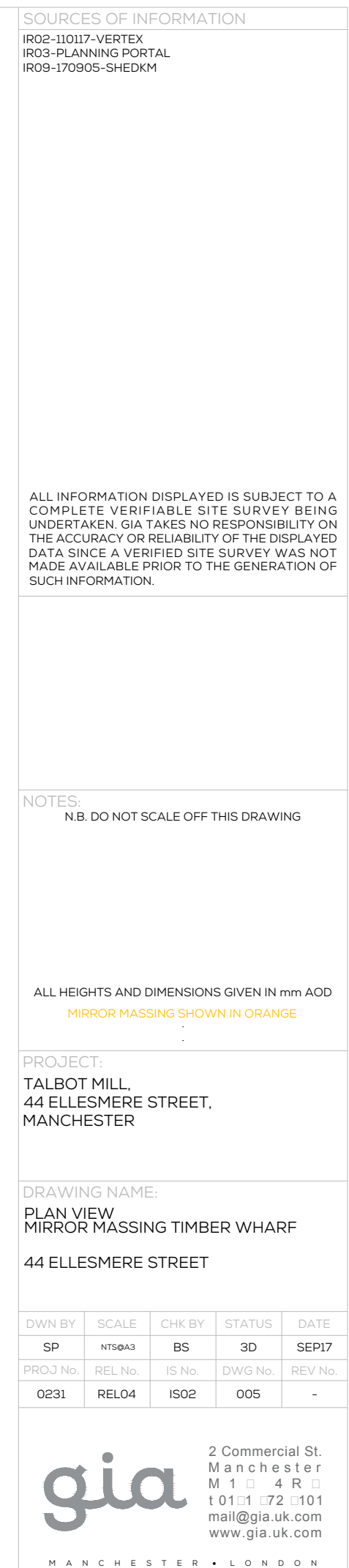
DRAWING NAME:
PLAN VIEW
MIRROR MASSING TIMBER WHARF
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:750@A3	BS	PV	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	ISO2	004	-

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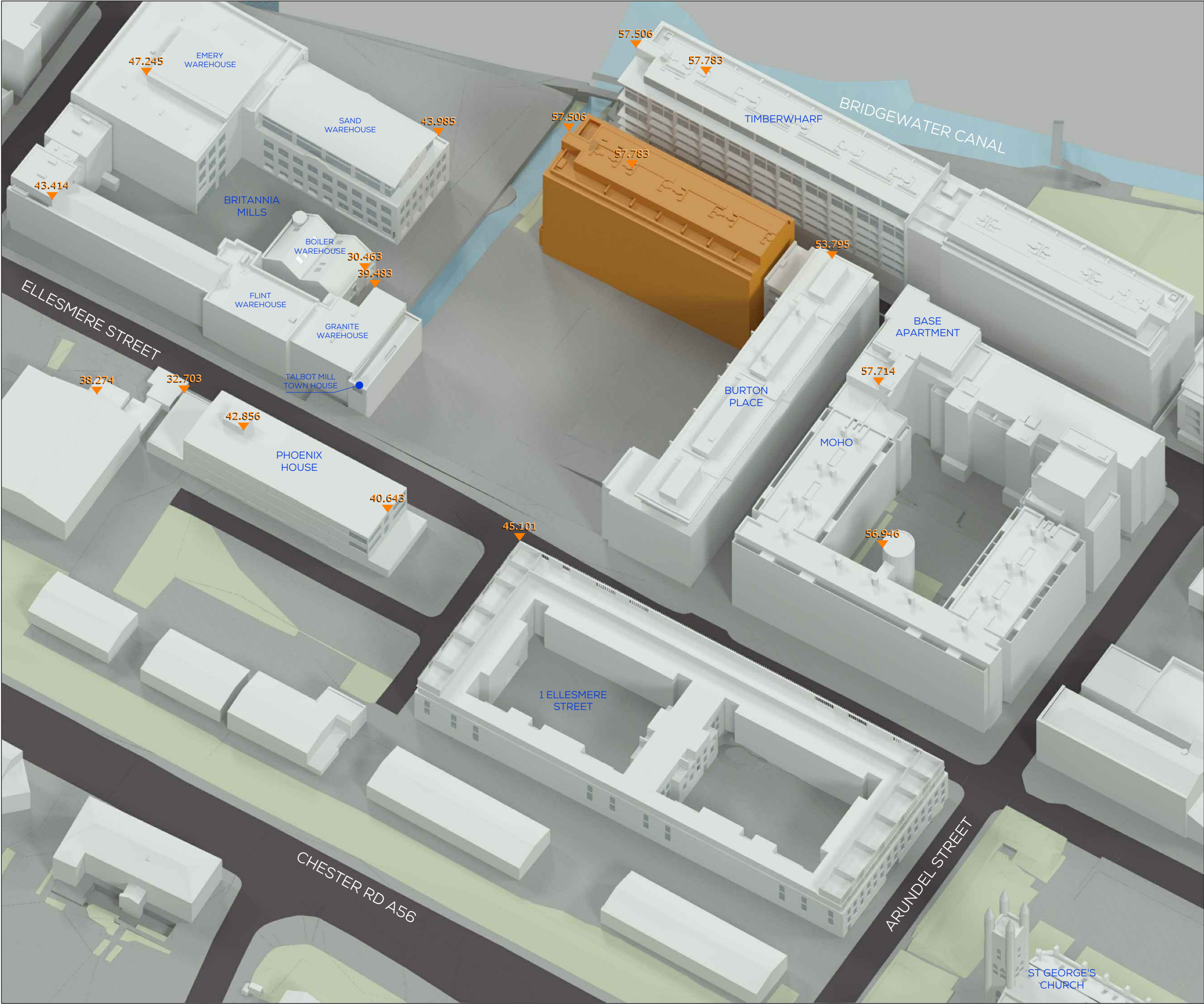
ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
MIRROR MASSING SHOWN IN ORANGE

TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

PLAN VIEW
MIRROR MASSING TIMBER WHARF

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	ISO2	005	-

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SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

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ALL HEIGHTS AND DIMENSIONS GIVEN IN mm AOD
MIRROR MASSING SHOWN IN ORANGE

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET,
MANCHESTER

DRAWING NAME:
PLAN VIEW
MIRROR MASSING TIMBER WHARF
44 ELLESMERE STREET

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	NTS@A3	BS	3D	SEP17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	REL04	IS02	006	-

Appendix 04

Results and Contour Plots

VSC results for existing site

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
1 ELLESMERE ST - ROOF GARDEN							
R1/F00	W1/F00	LKD	12.8	12.8	0.0	0.0	PASS
R2/F00	W2/F00	Bedroom	12.6	12.6	0.0	0.0	PASS
R3/F00	W3/F00	LKD	12.4	12.4	0.0	0.0	PASS
R4/F00	W4/F00	Bedroom	12.3	12.3	0.0	0.0	PASS
R5/F00	W5/F00	LKD	12.3	12.3	0.0	0.0	PASS
R6/F00	W6/F00	Bedroom	12.4	12.4	0.0	0.0	PASS
R7/F00	W7/F00	LKD	12.6	12.5	0.1	0.8	PASS
R8/F00	W8/F00	Bedroom	12.8	12.7	0.1	0.8	PASS
R9/F00	W9/F00	LKD	13.4	13.4	0.0	0.0	PASS
R10/F00	W10/F00	Bedroom	14.0	14.0	0.0	0.0	PASS
R11/F00	W11/F00	LKD	15.9	15.8	0.1	0.6	PASS
R12/F00	W12/F00	Bedroom	16.3	16.2	0.1	0.6	PASS
R13/F00	W13/F00	LKD	16.4	16.3	0.1	0.6	PASS
R14/F00	W14/F00	Bedroom	16.0	15.9	0.1	0.6	PASS
R15/F00	W15/F00	LKD	15.0	14.7	0.3	2.0	PASS
R16/F00	W16/F00	Bedroom	14.9	14.6	0.3	2.0	PASS
R17/F00	W17/F00	LKD	15.3	14.8	0.5	3.3	PASS
R18/F00	W18/F00	Bedroom	15.7	15.0	0.7	4.5	PASS
R19/F00	W19/F00	Bedroom	16.4	15.5	0.9	5.5	PASS
R20/F00	W20/F00	Bedroom	31.1	30.4	0.7	2.3	PASS
R21/F00	W21/F00	Bedroom	32.3	31.8	0.5	1.5	PASS
R22/F00	W22/F00	Bedroom	34.2	34.0	0.2	0.6	PASS
R23/F00	W23/F00	Bedroom	9.1	9.1	0.0	0.0	PASS
R24/F00	W24/F00	Bedroom	23.5	23.5	0.0	0.0	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R25/F00	W25/F00	Bedroom	24.2	24.2	0.0	0.0	PASS
R26/F00	W26/F00	Bedroom	23.7	23.7	0.0	0.0	PASS
R27/F00	W27/F00	Bedroom	9.7	9.7	0.0	0.0	PASS
R28/F00	W28/F00	Bedroom	14.5	14.5	0.0	0.0	PASS
R29/F00	W29/F00	Bedroom	22.4	22.4	0.0	0.0	PASS
R30/F00	W30/F00	Bedroom	14.2	14.2	0.0	0.0	PASS
R1/F01	W1/F01	Bedroom	15.3	15.3	0.0	0.0	PASS
R2/F01	W2/F01	Bedroom	15.1	15.1	0.0	0.0	PASS
R3/F01	W3/F01	Bedroom	14.8	14.8	0.0	0.0	PASS
R4/F01	W4/F01	Bedroom	14.8	14.8	0.0	0.0	PASS
R5/F01	W5/F01	Bedroom	14.8	14.7	0.1	0.7	PASS
R6/F01	W6/F01	Bedroom	14.8	14.8	0.0	0.0	PASS
R7/F01	W7/F01	Bedroom	15.0	15.0	0.0	0.0	PASS
R8/F01	W8/F01	Bedroom	15.2	15.2	0.0	0.0	PASS
R9/F01	W9/F01	Bedroom	15.9	15.9	0.0	0.0	PASS
R10/F01	W10/F01	Bedroom	16.5	16.5	0.0	0.0	PASS
R11/F01	W11/F01	Bedroom	18.4	18.3	0.1	0.5	PASS
R12/F01	W12/F01	Bedroom	18.8	18.7	0.1	0.5	PASS
R13/F01	W13/F01	Bedroom	19.0	18.9	0.1	0.5	PASS
R14/F01	W14/F01	Bedroom	18.8	18.6	0.2	1.1	PASS
R15/F01	W15/F01	Bedroom	17.8	17.5	0.3	1.7	PASS
R16/F01	W16/F01	Bedroom	17.8	17.5	0.3	1.7	PASS
R17/F01	W17/F01	Bedroom	18.4	17.8	0.6	3.3	PASS
R18/F01	W18/F01	Bedroom	18.8	18.0	0.8	4.3	PASS
R18/F01	W19/F01	Bedroom	19.3	18.4	0.9	4.7	PASS
R19/F01	W20/F01	Bedroom	19.8	18.7	1.1	5.6	PASS
R19/F01	W21/F01	Bedroom	20.3	19.0	1.3	6.4	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R20/F01	W22/F01	Bedroom	21.0	19.4	1.6	7.6	PASS
R20/F01	W23/F01	Bedroom	33.4	32.7	0.7	2.1	PASS
R20/F01	W24/F01	Bedroom	34.0	33.4	0.6	1.8	PASS
R21/F01	W25/F01	Bedroom	34.5	33.9	0.6	1.7	PASS
R21/F01	W26/F01	Bedroom	34.9	34.4	0.5	1.4	PASS
R22/F01	W27/F01	LKD	35.3	34.9	0.4	1.1	PASS
R23/F01	W28/F01	Bedroom	35.7	35.3	0.4	1.1	PASS
R23/F01	W29/F01	Bedroom	36.0	35.6	0.4	1.1	PASS
R24/F01	W30/F01	LKD	36.2	35.9	0.3	0.8	PASS
R25/F01	W31/F01	Bedroom	36.5	36.2	0.3	0.8	PASS
R25/F01	W32/F01	Bedroom	36.6	36.4	0.2	0.5	PASS
R26/F01	W33/F01	LKD	36.8	36.6	0.2	0.5	PASS
R27/F01	W34/F01	Bedroom	36.9	36.7	0.2	0.5	PASS
R27/F01	W35/F01	Bedroom	37.0	36.8	0.2	0.5	PASS
R28/F01	W36/F01	Bedroom	37.1	36.9	0.2	0.5	PASS
R28/F01	W37/F01	Bedroom	37.1	36.9	0.2	0.5	PASS
R28/F01	W38/F01	Bedroom	36.8	36.8	0.0	0.0	PASS
R29/F01	W39/F01	Bedroom	36.3	36.3	0.0	0.0	PASS
R29/F01	W40/F01	Bedroom	11.1	11.1	0.0	0.0	PASS
R30/F01	W41/F01	Bedroom	22.3	22.3	0.0	0.0	PASS
R31/F01	W42/F01	Bedroom	25.1	25.1	0.0	0.0	PASS
R32/F01	W43/F01	Bedroom	27.7	27.7	0.0	0.0	PASS
R33/F01	W44/F01	Bedroom	28.2	28.2	0.0	0.0	PASS
R34/F01	W45/F01	Bedroom	28.3	28.3	0.0	0.0	PASS
R35/F01	W46/F01	Bedroom	27.8	27.8	0.0	0.0	PASS
R36/F01	W47/F01	Bedroom	25.6	25.6	0.0	0.0	PASS
R37/F01	W48/F01	Bedroom	23.2	23.2	0.0	0.0	PASS
R38/F01	W49/F01	Bedroom	37.3	37.3	0.0	0.0	PASS
R38/F01	W50/F01	Bedroom	12.5	12.5	0.0	0.0	PASS
R39/F01	W51/F01	Bedroom	18.0	18.0	0.0	0.0	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R40/F01	W52/F01	Bedroom	26.2	26.2	0.0	0.0	PASS
R41/F01	W53/F01	Bedroom	27.4	27.4	0.0	0.0	PASS
R42/F01	W54/F01	Bedroom	27.1	27.1	0.0	0.0	PASS
R43/F01	W55/F01	Bedroom	25.5	25.5	0.0	0.0	PASS
R44/F01	W56/F01	Bedroom	16.9	16.9	0.0	0.0	PASS
R1/F02	W1/F02	LKD	17.8	17.7	0.1	0.6	PASS
R1/F02	W2/F02	LKD	17.6	17.6	0.0	0.0	PASS
R2/F02	W3/F02	LKD	17.5	17.5	0.0	0.0	PASS
R2/F02	W4/F02	LKD	17.4	17.4	0.0	0.0	PASS
R3/F02	W5/F02	LKD	17.5	17.5	0.0	0.0	PASS
R3/F02	W6/F02	LKD	17.5	17.5	0.0	0.0	PASS
R4/F02	W7/F02	LKD	17.9	17.9	0.0	0.0	PASS
R4/F02	W8/F02	LKD	18.2	18.1	0.1	0.5	PASS
R5/F02	W10/F02	LKD	19.2	19.2	0.0	0.0	PASS
R5/F02	W11/F02	LKD	20.1	20.0	0.1	0.5	PASS
R6/F02	W13/F02	LKD	21.4	21.4	0.0	0.0	PASS
R6/F02	W14/F02	LKD	21.6	21.5	0.1	0.5	PASS
R7/F02	W16/F02	LKD	21.5	21.4	0.1	0.5	PASS
R7/F02	W17/F02	LKD	21.0	20.8	0.2	1.0	PASS
R8/F02	W19/F02	LKD	20.9	20.5	0.4	1.9	PASS
R8/F02	W20/F02	LKD	21.2	20.7	0.5	2.4	PASS
R9/F02	W21/F02	LKD	22.2	21.3	0.9	4.1	PASS
R9/F02	W22/F02	LKD	22.8	21.7	1.1	4.8	PASS
R10/F02	W23/F02	LKD	23.4	22.0	1.4	6.0	PASS
R10/F02	W24/F02	LKD	24.0	22.4	1.6	6.7	PASS
R11/F02	W25/F02	LKD	24.7	22.8	1.9	7.7	PASS
R11/F02	W26/F02	LKD	35.4	34.7	0.7	2.0	PASS
R11/F02	W27/F02	LKD	35.9	35.3	0.6	1.7	PASS
R12/F02	W28/F02	LKD	36.3	35.8	0.5	1.4	PASS
R12/F02	W29/F02	LKD	36.7	36.2	0.5	1.4	PASS
R13/F02	W30/F02	LKD	37.0	36.6	0.4	1.1	PASS
R14/F02	W31/F02	Bedroom	37.3	36.9	0.4	1.1	PASS
R14/F02	W32/F02	Bedroom	37.5	37.1	0.4	1.1	PASS

Vertical Sky Component							Pass/ Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R15/F02	W33/F02	LKD	37.7	37.3	0.4	1.1	PASS
R16/F02	W34/F02	Bedroom	37.8	37.5	0.3	0.8	PASS
R16/F02	W35/F02	Bedroom	36.8	36.5	0.3	0.8	PASS
R17/F02	W36/F02	LKD	38.0	37.8	0.2	0.5	PASS
R18/F02	W37/F02	Bedroom	38.1	37.9	0.2	0.5	PASS
R18/F02	W38/F02	Bedroom	38.2	38.0	0.2	0.5	PASS
R19/F02	W39/F02	LKD	38.2	38.1	0.1	0.3	PASS
R19/F02	W40/F02	LKD	38.3	38.1	0.2	0.5	PASS
R19/F02	W41/F02	LKD	39.0	39.0	0.0	0.0	PASS
R20/F02	W42/F02	LKD	39.0	39.0	0.0	0.0	PASS
R20/F02	W43/F02	LKD	14.8	14.8	0.0	0.0	PASS
R20/F02	W44/F02	LKD	16.4	16.4	0.0	0.0	PASS
R20/F02	W45/F02	LKD	3.9	3.9	0.0	0.0	PASS
R20/F02	W46/F02	LKD	39.0	39.0	0.0	0.0	PASS
R21/F02	W47/F02	LKD	4.1	4.1	0.0	0.0	PASS
R21/F02	W48/F02	LKD	30.5	30.5	0.0	0.0	PASS
R21/F02	W49/F02	LKD	31.1	31.1	0.0	0.0	PASS
R22/F02	W50/F02	LKD	4.1	4.1	0.0	0.0	PASS
R22/F02	W51/F02	LKD	31.3	31.4	-0.1	-0.3	PASS
R22/F02	W52/F02	LKD	31.3	31.3	0.0	0.0	PASS
R23/F02	W53/F02	LKD	31.1	31.1	0.0	0.0	PASS
R23/F02	W54/F02	LKD	30.6	30.7	-0.1	-0.3	PASS
R23/F02	W55/F02	LKD	3.1	3.1	0.0	0.0	PASS
R24/F02	W56/F02	LKD	4.1	4.1	0.0	0.0	PASS
R24/F02	W57/F02	LKD	39.0	39.0	0.0	0.0	PASS
R24/F02	W58/F02	LKD	17.3	17.3	0.0	0.0	PASS
R24/F02	W59/F02	LKD	16.8	16.8	0.0	0.0	PASS
R24/F02	W60/F02	LKD	38.9	38.9	0.0	0.0	PASS
R25/F02	W61/F02	LKD	24.1	24.2	-0.1	-0.4	PASS
R25/F02	W62/F02	LKD	23.2	23.2	0.0	0.0	PASS
R25/F02	W63/F02	LKD	7.1	7.1	0.0	0.0	PASS
R26/F02	W64/F02	LKD	6.6	6.6	0.0	0.0	PASS
R26/F02	W65/F02	LKD	32.0	32.0	0.0	0.0	PASS
R26/F02	W66/F02	LKD	31.7	31.7	0.0	0.0	PASS
R27/F02	W67/F02	LKD	6.9	6.9	0.0	0.0	PASS
R28/F02	W68/F02	LKD	21.7	21.7	0.0	0.0	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R1/F03	W1/F03	Living Room	4.5	4.5	0.0	0.0	PASS
R2/F03	W2/F03	Living Room	0.0	0.0	0.0	0.0	PASS
R3/F03	W3/F03	Living Room	9.0	9.0	0.0	0.0	PASS
R4/F03	W4/F03	Living Room	10.5	10.5	0.0	0.0	PASS
R5/F03	W5/F03	Living Room	12.4	12.4	0.0	0.0	PASS
R6/F03	W6/F03	Living Room	14.3	14.3	0.0	0.0	PASS
R7/F03	W7/F03	Living Room	13.5	13.5	0.0	0.0	PASS
R8/F03	W8/F03	Living Room	12.0	12.0	0.0	0.0	PASS
R9/F03	W9/F03	Living Room	8.8	8.8	0.0	0.0	PASS
R10/F03	W10/F03	Living Room	14.5	13.6	0.9	6.2	PASS
R11/F03	W11/F03	Living Room	6.9	6.5	0.4	5.8	PASS
R12/F03	W12/F03	Living Room	13.9	13.6	0.3	2.2	PASS
R13/F03	W13/F03	Living Room	11.5	11.1	0.4	3.5	PASS
R14/F03	W14/F03	Bedroom	23.9	23.8	0.1	0.4	PASS
R15/F03	W15/F03	Living Room	10.8	10.7	0.1	0.9	PASS
R16/F03	W16/F03	Bedroom	22.8	22.7	0.1	0.4	PASS
R17/F03	W17/F03	Living Room	13.5	13.5	0.0	0.0	PASS
R18/F03	W18/F03	Bedroom	10.2	10.1	0.1	1.0	PASS
R19/F03	W19/F03	Living Room	22.7	22.7	0.0	0.0	PASS
BURTON PLACE							
R1/F01	W1/F01	Unknown-Resi	11.5	8.0	3.5	30.4	FAIL
R1/F01	W2/F01	Unknown-Resi	15.0	12.1	2.9	19.3	PASS
R2/F01	W3/F01	Unknown-Resi	25.1	13.8	11.3	45.0	FAIL
R3/F01	W4/F01	Unknown-Resi	26.8	15.8	11.0	41.0	FAIL
R4/F01	W5/F01	Unknown-Resi	19.9	11.5	8.4	42.2	FAIL
R5/F01	W6/F01	Unknown-Resi	19.7	12.1	7.6	38.6	FAIL

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R6/F01	W7/F01	Unknown-Resi	27.5	19.4	8.1	29.5	FAIL
R7/F01	W8/F01	Unknown-Resi	27.0	19.4	7.6	28.1	FAIL
R8/F01	W9/F01	Unknown-Resi	26.0	18.7	7.3	28.1	FAIL
R9/F01	W10/F01	Unknown-Resi	25.1	17.9	7.2	28.7	FAIL
R10/F01	W11/F01	Unknown-Resi	15.9	10.0	5.9	37.1	FAIL
R11/F01	W12/F01	Unknown-Resi	14.2	8.4	5.8	40.8	FAIL
R12/F01	W13/F01	Unknown-Resi	17.8	9.1	8.7	48.9	FAIL
R13/F01	W14/F01	Unknown-Resi	15.2	5.5	9.7	63.8	FAIL
R14/F01	W15/F01	Unknown-Resi	12.7	7.4	5.3	41.7	FAIL
R15/F01	W16/F01	Unknown-Resi	5.3	3.3	2.0	37.7	FAIL
R1/F02	W1/F02	Unknown-Resi	13.1	9.2	3.9	29.8	FAIL
R1/F02	W2/F02	Unknown-Resi	16.4	13.4	3.0	18.3	PASS
R2/F02	W3/F02	Unknown-Resi	27.0	15.5	11.5	42.6	FAIL
R3/F02	W4/F02	Unknown-Resi	29.0	18.1	10.9	37.6	FAIL
R4/F02	W5/F02	Unknown-Resi	21.9	13.5	8.4	38.4	FAIL
R5/F02	W6/F02	Unknown-Resi	21.9	14.3	7.6	34.7	FAIL
R6/F02	W7/F02	Unknown-Resi	30.2	22.4	7.8	25.8	PASS
R7/F02	W8/F02	Unknown-Resi	29.8	22.4	7.4	24.8	PASS
R8/F02	W9/F02	Unknown-Resi	28.9	21.7	7.2	24.9	PASS
R9/F02	W10/F02	Unknown-Resi	28.1	20.8	7.3	26.0	PASS
R10/F02	W11/F02	Unknown-Resi	18.4	11.8	6.6	35.9	FAIL
R11/F02	W12/F02	Unknown-Resi	16.4	9.8	6.6	40.2	FAIL
R12/F02	W13/F02	Unknown-Resi	20.2	10.6	9.6	47.5	FAIL
R13/F02	W14/F02	Unknown-Resi	17.0	6.6	10.4	61.2	FAIL
R14/F02	W15/F02	Unknown-Resi	13.7	8.4	5.3	38.7	FAIL
R15/F02	W16/F02	Unknown-Resi	6.0	4.0	2.0	33.3	FAIL

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R1/F03	W1/F03	Unknown-Resi	14.9	10.8	4.1	27.5	FAIL
R1/F03	W2/F03	Unknown-Resi	17.8	14.8	3.0	16.9	PASS
R2/F03	W3/F03	Unknown-Resi	28.8	17.7	11.1	38.5	FAIL
R3/F03	W4/F03	Unknown-Resi	31.2	21.0	10.2	32.7	PASS
R4/F03	W5/F03	Unknown-Resi	23.7	15.6	8.1	34.2	FAIL
R5/F03	W6/F03	Unknown-Resi	23.8	16.7	7.1	29.8	FAIL
R6/F03	W7/F03	Unknown-Resi	32.7	25.7	7.0	21.4	PASS
R7/F03	W8/F03	Unknown-Resi	32.5	25.8	6.7	20.6	PASS
R8/F03	W9/F03	Unknown-Resi	31.8	25.3	6.5	20.4	PASS
R9/F03	W10/F03	Unknown-Resi	31.3	24.4	6.9	22.0	PASS
R10/F03	W11/F03	Unknown-Resi	21.4	14.3	7.1	33.2	FAIL
R11/F03	W12/F03	Unknown-Resi	19.6	11.5	8.1	41.3	FAIL
R12/F03	W13/F03	Unknown-Resi	23.7	12.9	10.8	45.6	FAIL
R13/F03	W14/F03	Unknown-Resi	19.8	8.6	11.2	56.6	FAIL
R14/F03	W15/F03	Unknown-Resi	15.0	9.9	5.1	34.0	FAIL
R15/F03	W16/F03	Unknown-Resi	7.0	4.9	2.1	30.0	FAIL
R1/F04	W1/F04	Unknown-Resi	16.9	12.7	4.2	24.9	FAIL
R1/F04	W2/F04	Unknown-Resi	19.2	16.3	2.9	15.1	PASS
R2/F04	W3/F04	Unknown-Resi	31.0	20.8	10.2	32.9	PASS
R3/F04	W4/F04	Unknown-Resi	33.5	24.6	8.9	26.6	PASS
R4/F04	W5/F04	Unknown-Resi	25.5	18.2	7.3	28.6	FAIL
R5/F04	W6/F04	Unknown-Resi	25.6	19.5	6.1	23.8	FAIL
R6/F04	W7/F04	Unknown-Resi	35.2	29.2	6.0	17.0	PASS
R7/F04	W8/F04	Unknown-Resi	35.0	29.4	5.6	16.0	PASS
R8/F04	W9/F04	Unknown-Resi	34.8	29.2	5.6	16.1	PASS
R9/F04	W10/F04	Unknown-Resi	34.5	28.6	5.9	17.1	PASS
R10/F04	W11/F04	Unknown-Resi	24.6	18.1	6.5	26.4	FAIL

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R11/F04	W12/F04	Unknown-Resi	23.5	15.4	8.1	34.5	FAIL
R12/F04	W13/F04	Unknown-Resi	29.0	17.2	11.8	40.7	FAIL
R13/F04	W14/F04	Unknown-Resi	25.1	12.8	12.3	49.0	FAIL
R14/F04	W15/F04	Unknown-Resi	17.2	12.2	5.0	29.1	FAIL
R15/F04	W16/F04	Unknown-Resi	8.8	6.4	2.4	27.3	FAIL
R1/F05	W1/F05	Unknown-Resi	19.6	15.3	4.3	21.9	FAIL
R1/F05	W2/F05	Unknown-Resi	20.9	18.7	2.2	10.5	PASS
R2/F05	W3/F05	Unknown-Resi	34.5	25.8	8.7	25.2	PASS
R3/F05	W4/F05	Unknown-Resi	36.3	28.6	7.7	21.2	PASS
R4/F05	W5/F05	Unknown-Resi	27.1	21.1	6.0	22.1	PASS
R5/F05	W6/F05	Unknown-Resi	27.3	22.4	4.9	17.9	PASS
R6/F05	W7/F05	Unknown-Resi	37.4	32.8	4.6	12.3	PASS
R7/F05	W8/F05	Unknown-Resi	37.3	33.1	4.2	11.3	PASS
R8/F05	W9/F05	Unknown-Resi	37.4	33.2	4.2	11.2	PASS
R9/F05	W10/F05	Unknown-Resi	37.4	33.1	4.3	11.5	PASS
R10/F05	W11/F05	Unknown-Resi	27.6	22.9	4.7	17.0	PASS
R11/F05	W12/F05	Unknown-Resi	27.4	21.1	6.3	23.0	PASS
R12/F05	W13/F05	Unknown-Resi	35.9	25.7	10.2	28.4	PASS
R13/F05	W14/F05	Unknown-Resi	33.4	22.6	10.8	32.3	PASS
R14/F05	W15/F05	Unknown-Resi	21.0	16.7	4.3	20.5	FAIL
R15/F05	W16/F05	Unknown-Resi	16.0	9.7	6.3	39.4	FAIL
R1/F06	W4/F06	Unknown-Resi	27.2	23.1	4.1	15.1	PASS
R2/F06	W5/F06	Unknown-Resi	26.7	23.6	3.1	11.6	PASS
R3/F06	W6/F06	Unknown-Resi	27.5	25.8	1.7	6.2	PASS
R4/F06	W7/F06	Unknown-Resi	26.9	25.4	1.5	5.6	PASS
R5/F06	W8/F06	Unknown-Resi	26.1	25.6	0.5	1.9	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R6/F06	W9/F06	Unknown-Resi	25.7	25.1	0.6	2.3	PASS
R7/F06	W10/F06	Unknown-Resi	26.1	26.0	0.1	0.4	PASS
R8/F06	W11/F06	Unknown-Resi	25.7	25.5	0.2	0.8	PASS
R9/F06	W12/F06	Unknown-Resi	29.7	29.6	0.1	0.3	PASS
R10/F06	W13/F06	Unknown-Resi	29.9	29.8	0.1	0.3	PASS
R10/F06	W14/F06	Unknown-Resi	30.1	30.1	0.0	0.0	PASS
R11/F06	W1/F06	Unknown-Resi	15.8	15.8	0.0	0.0	PASS
R11/F06	W2/F06	Unknown-Resi	26.5	18.3	8.2	30.9	FAIL
R12/F06	W3/F06	Unknown-Resi	27.2	18.9	8.3	30.5	FAIL
BRITANNIA MILLS - BOILER WAREHOUSE							
R1/F00	W1/F00	Unknown-Resi	7.6	6.6	1.0	13.2	PASS
R2/F00	W2/F00	Unknown-Resi	2.0	0.4	1.6	80.0	FAIL
R3/F00	W3/F00	Unknown-Resi	14.4	11.7	2.7	18.8	PASS
R4/F00	W4/F00	Unknown-Resi	17.2	17.2	0.0	0.0	PASS
R4/F00	W5/F00	Unknown-Resi	18.0	18.0	0.0	0.0	PASS
R5/F00	W6/F00	Unknown-Resi	17.5	17.5	0.0	0.0	PASS
R1/F01	W1/F01	Unknown-Resi	11.3	10.1	1.2	10.6	PASS
R1/F01	W2/F01	Unknown-Resi	3.4	2.1	1.3	38.2	FAIL
R2/F01	W3/F01	Unknown-Resi	3.2	0.4	2.8	87.5	FAIL
R2/F01	W4/F01	Unknown-Resi	13.4	12.1	1.3	9.7	PASS
R3/F01	W5/F01	Unknown-Resi	11.2	10.4	0.8	7.1	PASS
R4/F01	W6/F01	Unknown-Resi	65.4	65.4	0.0	0.0	PASS
R4/F01	W7/F01	Unknown-Resi	73.6	70.6	3.0	4.1	PASS
R5/F01	W8/F01	Unknown-Resi	73.7	70.8	2.9	3.9	PASS
R5/F01	W9/F01	Unknown-Resi	72.8	70.0	2.8	3.8	PASS
R1/F02	W3/F02	Unknown-Resi	73.4	73.4	0.0	0.0	PASS
R1/F02	W4/F02	Unknown-Resi	72.5	72.5	0.0	0.0	PASS
R2/F02	W1/F02	Unknown-Resi	72.0	72.0	0.0	0.0	PASS
R2/F02	W2/F02	Unknown-Resi	73.2	73.2	0.0	0.0	PASS
BRITANNIA MILLS - SAND WAREHOUSE							

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R1/F00	W1/F00	Unknown-Resi	19.5	19.4	0.1	0.5	PASS
R2/F00	W2/F00	Unknown-Resi	21.5	21.3	0.2	0.9	PASS
R3/F00	W3/F00	Unknown-Resi	22.2	22.0	0.2	0.9	PASS
R4/F00	W4/F00	Unknown-Resi	21.9	21.6	0.3	1.4	PASS
R5/F00	W5/F00	Unknown-Resi	21.0	20.7	0.3	1.4	PASS
R6/F00	W6/F00	Unknown-Resi	18.5	18.2	0.3	1.6	PASS
R7/F00	W7/F00	Unknown-Resi	18.1	17.6	0.5	2.8	PASS
R8/F00	W8/F00	Unknown-Resi	17.8	17.2	0.6	3.4	PASS
R8/F00	W9/F00	Unknown-Resi	18.0	17.3	0.7	3.9	PASS
R8/F00	W10/F00	Unknown-Resi	1.9	0.4	1.5	78.9	FAIL
R9/F00	W11/F00	Kitchen-Resi	5.6	1.4	4.2	75.0	FAIL
R9/F00	W12/F00	Kitchen-Resi	33.5	32.5	1.0	3.0	PASS
R9/F00	W13/F00	Kitchen-Resi	34.2	33.4	0.8	2.3	PASS
R10/F00	W14/F00	Kitchen-Resi	34.6	34.0	0.6	1.7	PASS
R1/F01	W1/F01	Unknown-Resi	23.7	23.4	0.3	1.3	PASS
R2/F01	W2/F01	Unknown-Resi	26.4	26.1	0.3	1.1	PASS
R3/F01	W3/F01	Unknown-Resi	28.1	27.8	0.3	1.1	PASS
R4/F01	W4/F01	Unknown-Resi	28.9	28.5	0.4	1.4	PASS
R5/F01	W5/F01	Unknown-Resi	29.4	28.9	0.5	1.7	PASS
R6/F01	W6/F01	Unknown-Resi	29.6	29.0	0.6	2.0	PASS
R7/F01	W7/F01	Unknown-Resi	29.5	28.8	0.7	2.4	PASS
R8/F01	W8/F01	Unknown-Resi	29.1	28.2	0.9	3.1	PASS
R9/F01	W9/F01	Unknown-Resi	28.8	27.8	1.0	3.5	PASS
R9/F01	W10/F01	Unknown-Resi	22.0	17.2	4.8	21.8	FAIL
R9/F01	W11/F01	Unknown-Resi	22.3	17.2	5.1	22.9	FAIL
R9/F01	W12/F01	Unknown-Resi	22.7	17.3	5.4	23.8	FAIL
R10/F01	W15/F01	Kitchen-Resi	24.3	17.8	6.5	26.7	FAIL
R10/F01	W16/F01	Kitchen-Resi	25.1	18.1	7.0	27.9	FAIL
R10/F01	W17/F01	Kitchen-Resi	25.6	18.1	7.5	29.3	FAIL
R10/F01	W18/F01	Kitchen-Resi	36.2	35.0	1.2	3.3	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R11/F01	W19/F01	Kitchen-Resi	36.7	35.9	0.8	2.2	PASS
R12/F01	W20/F01	Kitchen-Resi	37.2	36.5	0.7	1.9	PASS
R1/F02	W1/F02	Unknown-Resi	28.0	27.8	0.2	0.7	PASS
R2/F02	W2/F02	Unknown-Resi	31.0	30.8	0.2	0.6	PASS
R3/F02	W3/F02	Unknown-Resi	32.8	32.4	0.4	1.2	PASS
R4/F02	W4/F02	Unknown-Resi	33.7	33.3	0.4	1.2	PASS
R5/F02	W5/F02	Unknown-Resi	34.2	33.8	0.4	1.2	PASS
R6/F02	W6/F02	Unknown-Resi	34.4	33.9	0.5	1.5	PASS
R7/F02	W7/F02	Unknown-Resi	34.5	33.8	0.7	2.0	PASS
R8/F02	W8/F02	Unknown-Resi	34.4	33.5	0.9	2.6	PASS
R9/F02	W9/F02	Unknown-Resi	34.1	32.9	1.2	3.5	PASS
R9/F02	W10/F02	Unknown-Resi	27.2	21.4	5.8	21.3	PASS
R9/F02	W11/F02	Unknown-Resi	27.3	21.4	5.9	21.6	PASS
R9/F02	W12/F02	Unknown-Resi	27.5	21.4	6.1	22.2	PASS
R10/F02	W15/F02	Kitchen-Resi	28.4	21.7	6.7	23.6	PASS
R10/F02	W16/F02	Kitchen-Resi	28.9	21.9	7.0	24.2	PASS
R10/F02	W17/F02	Kitchen-Resi	29.2	21.8	7.4	25.3	PASS
R10/F02	W18/F02	Kitchen-Resi	36.8	35.8	1.0	2.7	PASS
R11/F02	W19/F02	Kitchen-Resi	37.2	36.5	0.7	1.9	PASS
R12/F02	W20/F02	Kitchen-Resi	37.6	37.1	0.5	1.3	PASS
R1/F03	W1/F03	Unknown-Resi	33.7	33.5	0.2	0.6	PASS
R2/F03	W2/F03	Unknown-Resi	35.4	35.3	0.1	0.3	PASS
R3/F03	W3/F03	Unknown-Resi	38.1	37.6	0.5	1.3	PASS
R4/F03	W4/F03	Unknown-Resi	38.2	37.4	0.8	2.1	PASS
R4/F03	W5/F03	Unknown-Resi	38.0	36.9	1.1	2.9	PASS
R4/F03	W6/F03	Unknown-Resi	31.0	25.6	5.4	17.4	PASS
R5/F03	W7/F03	Unknown-Resi	31.1	25.5	5.6	18.0	PASS
R5/F03	W8/F03	Unknown-Resi	37.7	36.9	0.8	2.1	PASS
R5/F03	W9/F03	Unknown-Resi	37.8	37.3	0.5	1.3	PASS
R1/F03	W1/F04	Unknown-Resi	36.2	36.0	0.2	0.6	PASS
R2/F03	W2/F04	Unknown-Resi	38.5	38.3	0.2	0.5	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R3/F03	W3/F04	Unknown-Resi	39.0	38.6	0.4	1.0	PASS
R4/F03	W4/F04	Unknown-Resi	39.0	38.3	0.7	1.8	PASS
R4/F03	W5/F04	Unknown-Resi	38.8	37.8	1.0	2.6	PASS
R4/F03	W6/F04	Unknown-Resi	12.3	7.7	4.6	37.4	FAIL
R4/F04	W7/F04	Unknown-Resi	22.4	17.6	4.8	21.4	FAIL
R5/F04	W8/F04	Unknown-Resi	24.2	19.4	4.8	19.8	PASS
R5/F03	W10/F04	Unknown-Resi	10.6	6.4	4.2	39.6	FAIL
R5/F03	W11/F04	Unknown-Resi	37.7	37.0	0.7	1.9	PASS
R5/F03	W12/F04	Unknown-Resi	38.1	37.6	0.5	1.3	PASS
R6/F04	W9/F04	Unknown-Resi	22.4	17.7	4.7	21.0	FAIL
BRITANNIA MILLS - EMERY WAREHOUSE							
R1/F00	W1/F00	Unknown-Resi	22.2	21.5	0.7	3.2	PASS
R2/F00	W2/F00	Unknown-Resi	20.6	19.9	0.7	3.4	PASS
R1/F01	W1/F01	Unknown-Resi	29.0	28.0	1.0	3.4	PASS
R1/F01	W2/F01	Unknown-Resi	27.3	26.4	0.9	3.3	PASS
R2/F01	W3/F01	Unknown-Resi	25.5	24.7	0.8	3.1	PASS
R1/F02	W1/F02	Unknown-Resi	33.4	32.2	1.2	3.6	PASS
R1/F02	W2/F02	Unknown-Resi	32.6	31.6	1.0	3.1	PASS
R2/F02	W3/F02	Unknown-Resi	30.8	30.0	0.8	2.6	PASS
R1/F03	W1/F03	Unknown-Resi	36.9	36.2	0.7	1.9	PASS
R1/F03	W2/F03	Unknown-Resi	36.7	35.8	0.9	2.5	PASS
R2/F03	W3/F03	Unknown-Resi	36.1	35.2	0.9	2.5	PASS
BRITANNIA MILLS - FLINT WAREHOUSE							
R1/F00	W1/F00	Unknown-Resi	12.0	12.0	0.0	0.0	PASS
R2/F00	W2/F00	Unknown-Resi	15.5	15.4	0.1	0.6	PASS
R3/F00	W3/F00	Unknown-Resi	16.8	16.6	0.2	1.2	PASS
R4/F00	W4/F00	Unknown-Resi	16.0	15.8	0.2	1.3	PASS
R5/F00	W5/F00	Unknown-Resi	12.1	11.9	0.2	1.7	PASS
R1/F01	W1/F01	Unknown-Resi	23.2	23.2	0.0	0.0	PASS

Vertical Sky Component							Pass / Fail
Room	Window	Room Use	Existing	Proposed	Loss	%	
R2/F01	W2/F01	Unknown-Resi	27.0	26.4	0.6	2.2	PASS
R3/F01	W3/F01	Unknown-Resi	27.9	27.1	0.8	2.9	PASS
R4/F01	W4/F01	Unknown-Resi	26.5	25.5	1.0	3.8	PASS
R5/F01	W5/F01	Unknown-Resi	20.7	19.9	0.8	3.9	PASS
R1/F02	W1/F02	Unknown-Resi	33.1	31.9	1.2	3.6	PASS
R2/F02	W2/F02	Unknown-Resi	33.1	31.9	1.2	3.6	PASS
R3/F02	W3/F02	Unknown-Resi	32.7	31.7	1.0	3.1	PASS
R4/F02	W4/F02	Unknown-Resi	31.6	30.7	0.9	2.8	PASS
R5/F02	W5/F02	Unknown-Resi	25.2	24.4	0.8	3.2	PASS
TALBOT MILL TOWN HOUSE							
R1/F00	W1/F00	Bedroom	17.9	16.9	1.0	5.6	PASS
R2/F00	W4/F00	Circulation Space	23.2	22.5	0.7	3.0	PASS
R1/F01	W1/F01	Living Room	19.6	18.6	1.0	5.1	PASS
R1/F02	W1/F02	LKD	21.6	20.6	1.0	4.6	PASS
R1/F02	W2/F02	LKD	34.0	34.0	0.0	0.0	PASS
R1/F02	W3/F02	LKD	20.5	20.5	0.0	0.0	PASS

ADF results for existing site

Average Daylight Factor									
Room	Window	Room Use	Existing		Proposed		Loss	%	Pass / Fail
			ADF	Total	ADF	Total			
1 ELLESMERE ST - ROOF GARDEN									
R1/F00	W1/F00	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R2/F00	W2/F00	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R3/F00	W3/F00	LKD	0.3	0.3	0.3	0.3	0.0	0.0	PASS
R4/F00	W4/F00	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R5/F00	W5/F00	LKD	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R6/F00	W6/F00	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R7/F00	W7/F00	LKD	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R8/F00	W8/F00	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R9/F00	W9/F00	LKD	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R10/F00	W10/F00	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R11/F00	W11/F00	LKD	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R12/F00	W12/F00	Bedroom	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R13/F00	W13/F00	LKD	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R14/F00	W14/F00	Bedroom	0.6	0.6	0.6	0.6	0.0	0.0	PASS
R15/F00	W15/F00	LKD	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R16/F00	W16/F00	Bedroom	1.4	1.4	1.3	1.3	0.1	7.1	PASS
R17/F00	W17/F00	LKD	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R18/F00	W18/F00	Bedroom	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R19/F00	W19/F00	Bedroom	1.4	1.4	1.3	1.3	0.1	7.1	PASS
R20/F00	W20/F00	Bedroom	2.0	2.0	2.0	2.0	0.0	0.0	PASS
R21/F00	W21/F00	Bedroom	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R22/F00	W22/F00	Bedroom	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R23/F00	W23/F00	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R24/F00	W24/F00	Bedroom	1.8	1.8	1.8	1.8	0.0	0.0	PASS
R25/F00	W25/F00	Bedroom	1.9	1.9	1.9	1.9	0.0	0.0	PASS
R26/F00	W26/F00	Bedroom	1.8	1.8	1.8	1.8	0.0	0.0	PASS
R27/F00	W27/F00	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R28/F00	W28/F00	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R29/F00	W29/F00	Bedroom	2.1	2.1	2.1	2.1	0.0	0.0	PASS
R30/F00	W30/F00	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R1/F01	W1/F01	Bedroom	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R2/F01	W2/F01	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS

Average Daylight Factor									
Room	Window	Room Use	Existing		Proposed		Loss	%	Pass / Fail
			ADF	Total	ADF	Total			
R3/F01	W3/F01	Bedroom	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R4/F01	W4/F01	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R5/F01	W5/F01	Bedroom	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R6/F01	W6/F01	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R7/F01	W7/F01	Bedroom	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R8/F01	W8/F01	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R9/F01	W9/F01	Bedroom	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R10/F01	W10/F01	Bedroom	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R11/F01	W11/F01	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R12/F01	W12/F01	Bedroom	1.4	1.4	1.3	1.3	0.1	7.1	PASS
R13/F01	W13/F01	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R14/F01	W14/F01	Bedroom	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R15/F01	W15/F01	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R16/F01	W16/F01	Bedroom	1.3	1.3	1.3	1.3	0.0	0.0	PASS
R17/F01	W17/F01	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R18/F01	W18/F01	Bedroom	1.2		1.2				
R18/F01	W19/F01	Bedroom	0.1	1.4	0.1	1.3	0.1	7.1	PASS
R19/F01	W20/F01	Bedroom	1.3		1.2				
R19/F01	W21/F01	Bedroom	1.3	2.6	1.2	2.4	0.2	7.7	PASS
R20/F01	W22/F01	Bedroom	0.5		0.5				
R20/F01	W23/F01	Bedroom	0.7		0.7				
R20/F01	W24/F01	Bedroom	0.7	1.9	0.7	1.9	0.0	0.0	PASS
R21/F01	W25/F01	Bedroom	0.7		0.7				
R21/F01	W26/F01	Bedroom	0.7	1.4	0.7	1.4	0.0	0.0	PASS
R22/F01	W27/F01	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R23/F01	W28/F01	Bedroom	0.8		0.8				
R23/F01	W29/F01	Bedroom	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R24/F01	W30/F01	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R25/F01	W31/F01	Bedroom	0.8		0.8				
R25/F01	W32/F01	Bedroom	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R26/F01	W33/F01	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R27/F01	W34/F01	Bedroom	0.9		0.9				
R27/F01	W35/F01	Bedroom	0.9	1.7	0.9	1.7	0.0	0.0	PASS
R28/F01	W36/F01	Bedroom	0.7		0.7				
R28/F01	W37/F01	Bedroom	0.7		0.7				
R28/F01	W38/F01	Bedroom	0.7	2.2	0.7	2.2	0.0	0.0	PASS
R29/F01	W39/F01	Bedroom	2.2		2.2				
R29/F01	W40/F01	Bedroom	0.7	2.9	0.7	2.9	0.0	0.0	PASS

Room	Window	Room Use	Existing		Proposed		Loss	%	Pass / Fail
			ADF	Total	ADF	Total			
R30/F01	W41/F01	Bedroom	1.5	1.5	1.5	1.5	0.0	0.0	PASS
R31/F01	W42/F01	Bedroom	1.3	1.3	1.3	1.3	0.0	0.0	PASS
R32/F01	W43/F01	Bedroom	1.9	1.9	1.9	1.9	0.0	0.0	PASS
R33/F01	W44/F01	Bedroom	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R34/F01	W45/F01	Bedroom	1.9	1.9	1.9	1.9	0.0	0.0	PASS
R35/F01	W46/F01	Bedroom	1.9	1.9	1.9	1.9	0.0	0.0	PASS
R36/F01	W47/F01	Bedroom	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R37/F01	W48/F01	Bedroom	1.5	1.5	1.5	1.5	0.0	0.0	PASS
R38/F01	W49/F01	Bedroom	2.4		2.4				
R38/F01	W50/F01	Bedroom	0.7	3.1	0.7	3.1	0.0	0.0	PASS
R39/F01	W51/F01	Bedroom	1.3	1.3	1.3	1.3	0.0	0.0	PASS
R40/F01	W52/F01	Bedroom	1.6	1.6	1.6	1.6	0.0	0.0	PASS
R41/F01	W53/F01	Bedroom	1.5	1.5	1.5	1.5	0.0	0.0	PASS
R42/F01	W54/F01	Bedroom	1.9	1.9	1.9	1.9	0.0	0.0	PASS
R43/F01	W55/F01	Bedroom	1.6	1.6	1.6	1.6	0.0	0.0	PASS
R44/F01	W56/F01	Bedroom	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R1/F02	W1/F02	LKD	0.8		0.8				
R1/F02	W2/F02	LKD	0.8	1.5	0.8	1.5	0.0	0.0	PASS
R2/F02	W3/F02	LKD	0.8		0.8				
R2/F02	W4/F02	LKD	0.8	1.6	0.8	1.6	0.0	0.0	PASS
R3/F02	W5/F02	LKD	0.8		0.8				
R3/F02	W6/F02	LKD	0.8	1.6	0.8	1.6	0.0	0.0	PASS
R4/F02	W7/F02	LKD	0.8		0.8				
R4/F02	W8/F02	LKD	0.8	1.6	0.8	1.6	0.0	0.0	PASS
R5/F02	W10/F02	LKD	0.8		0.8				
R5/F02	W11/F02	LKD	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R6/F02	W13/F02	LKD	0.9		0.9				
R6/F02	W14/F02	LKD	0.9	1.8	0.9	1.8	0.0	0.0	PASS
R7/F02	W16/F02	LKD	0.9		0.9				
R7/F02	W17/F02	LKD	0.9	1.8	0.9	1.8	0.0	0.0	PASS
R8/F02	W19/F02	LKD	0.9		0.9				
R8/F02	W20/F02	LKD	0.9	1.8	0.9	1.7	0.1	5.6	PASS
R9/F02	W21/F02	LKD	0.9		0.9				
R9/F02	W22/F02	LKD	0.9	1.8	0.9	1.8	0.0	0.0	PASS
R10/F02	W23/F02	LKD	1.0		0.9				
R10/F02	W24/F02	LKD	1.0	2.0	0.9	1.9	0.1	5.0	PASS
R11/F02	W25/F02	LKD	0.4		0.4				
R11/F02	W26/F02	LKD	0.5		0.5				
R11/F02	W27/F02	LKD	0.5	1.5	0.5	1.4	0.1	6.7	PASS
R12/F02	W28/F02	LKD	0.6		0.6				

Average Daylight Factor									
Room	Window	Room Use	Existing		Proposed		Loss	%	Pass / Fail
			ADF	Total	ADF	Total			
R12/F02	W29/F02	LKD	0.6	1.1	0.6	1.1	0.0	0.0	PASS
R13/F02	W30/F02	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R14/F02	W31/F02	Bedroom	0.9		0.9				
R14/F02	W32/F02	Bedroom	0.9	1.8	0.9	1.8	0.0	0.0	PASS
R15/F02	W33/F02	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R16/F02	W34/F02	Bedroom	0.9		0.9				
R16/F02	W35/F02	Bedroom	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R17/F02	W36/F02	LKD	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R18/F02	W37/F02	Bedroom	0.9		0.9				
R18/F02	W38/F02	Bedroom	0.9	1.8	0.9	1.8	0.0	0.0	PASS
R19/F02	W39/F02	LKD	0.5		0.5				
R19/F02	W40/F02	LKD	0.5		0.5				
R19/F02	W41/F02	LKD	0.5	1.6	0.5	1.6	0.0	0.0	PASS
R20/F02	W42/F02	LKD	1.0		1.0				
R20/F02	W43/F02	LKD	0.3		0.3				
R20/F02	W44/F02	LKD	0.5		0.5				
R20/F02	W45/F02	LKD	0.1		0.1				
R20/F02	W46/F02	LKD	1.0	3.0	1.0	3.0	0.0	0.0	PASS
R21/F02	W47/F02	LKD	0.2		0.2				
R21/F02	W48/F02	LKD	0.8		0.8				
R21/F02	W49/F02	LKD	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R22/F02	W50/F02	LKD	0.2		0.2				
R22/F02	W51/F02	LKD	0.8		0.8				
R22/F02	W52/F02	LKD	0.8	1.7	0.8	1.7	0.0	0.0	PASS
R23/F02	W53/F02	LKD	0.8		0.8				
R23/F02	W54/F02	LKD	0.8		0.8				
R23/F02	W55/F02	LKD	0.1	1.7	0.1	1.7	0.0	0.0	PASS
R24/F02	W56/F02	LKD	0.1		0.1				
R24/F02	W57/F02	LKD	0.9		0.9				
R24/F02	W58/F02	LKD	0.5		0.5				
R24/F02	W59/F02	LKD	0.3		0.3				
R24/F02	W60/F02	LKD	0.9	2.8	0.9	2.8	0.0	0.0	PASS
R25/F02	W61/F02	LKD	0.7		0.7				
R25/F02	W62/F02	LKD	0.7		0.7				
R25/F02	W63/F02	LKD	0.4	1.7	0.4	1.7	0.0	0.0	PASS
R26/F02	W64/F02	LKD	0.3		0.3				
R26/F02	W65/F02	LKD	0.8		0.8				
R26/F02	W66/F02	LKD	0.8	1.9	0.8	1.9	0.0	0.0	PASS
R27/F02	W67/F02	LKD	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R28/F02	W68/F02	LKD	1.3	1.3	1.3	1.3	0.0	0.0	PASS
R1/F03	W1/F03	Living Room	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R2/F03	W2/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R3/F03	W3/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R4/F03	W4/F03	Living Room	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R5/F03	W5/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS

Room	Window	Room Use	Average Daylight Factor						Pass / Fail
			Existing ADF	Existing Total	Proposed ADF	Proposed Total	Loss	%	
R6/F03	W6/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R7/F03	W7/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R8/F03	W8/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R9/F03	W9/F03	Living Room	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R10/F03	W10/F03	Living Room	1.0	1.0	0.9	0.9	0.1	10.0	PASS
R11/F03	W11/F03	Living Room	0.6	0.6	0.5	0.5	0.1	16.7	PASS
R12/F03	W12/F03	Living Room	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R13/F03	W13/F03	Living Room	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R14/F03	W14/F03	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R15/F03	W15/F03	Living Room	0.6	0.6	0.6	0.6	0.0	0.0	PASS
R16/F03	W16/F03	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R17/F03	W17/F03	Living Room	0.6	0.6	0.6	0.6	0.0	0.0	PASS
R18/F03	W18/F03	Bedroom	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R19/F03	W19/F03	Living Room	0.5	0.5	0.5	0.5	0.0	0.0	PASS
BURTON PLACE									
R1/F01	W1/F01	Unknown-Resi	1.4		1.1				
R1/F01	W2/F01	Unknown-Resi	0.5	1.8	0.4	1.6	0.2	11.1	PASS
R2/F01	W3/F01	Unknown-Resi	1.3	1.3	0.9	0.9	0.4	30.8	FAIL
R3/F01	W4/F01	Unknown-Resi	1.3	1.3	1.0	1.0	0.3	23.1	PASS
R4/F01	W5/F01	Unknown-Resi	2.8	2.8	1.9	1.9	0.9	32.1	PASS
R5/F01	W6/F01	Unknown-Resi	2.8	2.8	2.0	2.0	0.8	28.6	PASS
R6/F01	W7/F01	Unknown-Resi	1.3	1.3	1.1	1.1	0.2	15.4	PASS
R7/F01	W8/F01	Unknown-Resi	1.4	1.4	1.1	1.1	0.3	21.4	PASS
R8/F01	W9/F01	Unknown-Resi	1.3	1.3	1.0	1.0	0.3	23.1	PASS
R9/F01	W10/F01	Unknown-Resi	1.3	1.3	1.0	1.0	0.3	23.1	PASS
R10/F01	W11/F01	Unknown-Resi	2.4	2.4	1.8	1.8	0.6	25.0	PASS
R11/F01	W12/F01	Unknown-Resi	2.3	2.3	1.6	1.6	0.7	30.4	PASS
R12/F01	W13/F01	Unknown-Resi	1.0	1.0	0.7	0.7	0.3	30.0	FAIL
R13/F01	W14/F01	Unknown-Resi	0.9	0.9	0.5	0.5	0.4	44.4	FAIL
R14/F01	W15/F01	Unknown-Resi	0.6	0.6	0.5	0.5	0.1	16.7	PASS
R15/F01	W16/F01	Unknown-Resi	1.2	1.2	0.9	0.9	0.3	25.0	FAIL
R1/F02	W1/F02	Unknown-Resi	1.5		1.2				
R1/F02	W2/F02	Unknown-Resi	0.5	2.0	0.5	1.7	0.3	15.0	PASS
R2/F02	W3/F02	Unknown-Resi	1.3	1.3	0.9	0.9	0.4	30.8	FAIL

Room	Window	Room Use	Average Daylight Factor						Pass / Fail
			Existing ADF	Total	Proposed ADF	Total	Loss	%	
R3/F02	W4/F02	Unknown-Resi	1.4	1.4	1.0	1.0	0.4	28.6	PASS
R4/F02	W5/F02	Unknown-Resi	3.0	3.0	2.2	2.2	0.8	26.7	PASS
R5/F02	W6/F02	Unknown-Resi	3.0	3.0	2.2	2.2	0.8	26.7	PASS
R6/F02	W7/F02	Unknown-Resi	1.4	1.4	1.2	1.2	0.2	14.3	PASS
R7/F02	W8/F02	Unknown-Resi	1.5	1.5	1.2	1.2	0.3	20.0	PASS
R8/F02	W9/F02	Unknown-Resi	1.4	1.4	1.1	1.1	0.3	21.4	PASS
R9/F02	W10/F02	Unknown-Resi	1.4	1.4	1.1	1.1	0.3	21.4	PASS
R10/F02	W11/F02	Unknown-Resi	2.7	2.7	2.0	2.0	0.7	25.9	PASS
R11/F02	W12/F02	Unknown-Resi	2.5	2.5	1.8	1.8	0.7	28.0	PASS
R12/F02	W13/F02	Unknown-Resi	1.1	1.1	0.7	0.7	0.4	36.4	FAIL
R13/F02	W14/F02	Unknown-Resi	1.0	1.0	0.6	0.6	0.4	40.0	FAIL
R14/F02	W15/F02	Unknown-Resi	0.6	0.6	0.5	0.5	0.1	16.7	PASS
R15/F02	W16/F02	Unknown-Resi	1.3	1.3	1.0	1.0	0.3	23.1	FAIL
R1/F03	W1/F03	Unknown-Resi	1.6		1.4				
R1/F03	W2/F03	Unknown-Resi	0.5	2.2	0.5	1.9	0.3	13.6	PASS
R2/F03	W3/F03	Unknown-Resi	1.4	1.4	1.0	1.0	0.4	28.6	PASS
R3/F03	W4/F03	Unknown-Resi	1.5	1.5	1.1	1.1	0.4	26.7	PASS
R4/F03	W5/F03	Unknown-Resi	3.2	3.2	2.4	2.4	0.8	25.0	PASS
R5/F03	W6/F03	Unknown-Resi	3.2	3.2	2.5	2.5	0.7	21.9	PASS
R6/F03	W7/F03	Unknown-Resi	1.5	1.5	1.3	1.3	0.2	13.3	PASS
R7/F03	W8/F03	Unknown-Resi	1.5	1.5	1.3	1.3	0.2	13.3	PASS
R8/F03	W9/F03	Unknown-Resi	1.5	1.5	1.3	1.3	0.2	13.3	PASS
R9/F03	W10/F03	Unknown-Resi	1.5	1.5	1.3	1.3	0.2	13.3	PASS
R10/F03	W11/F03	Unknown-Resi	3.0	3.0	2.3	2.3	0.7	23.3	PASS
R11/F03	W12/F03	Unknown-Resi	2.8	2.8	2.0	2.0	0.8	28.6	PASS
R12/F03	W13/F03	Unknown-Resi	1.2	1.2	0.8	0.8	0.4	33.3	FAIL
R13/F03	W14/F03	Unknown-Resi	1.1	1.1	0.7	0.7	0.4	36.4	FAIL
R14/F03	W15/F03	Unknown-Resi	0.7	0.7	0.5	0.5	0.2	28.6	FAIL
R15/F03	W16/F03	Unknown-Resi	1.4	1.4	1.1	1.1	0.3	21.4	FAIL
R1/F04	W1/F04	Unknown-Resi	1.7		1.5				
R1/F04	W2/F04	Unknown-Resi	0.6	2.3	0.5	2.0	0.3	13.0	PASS
R2/F04	W3/F04	Unknown-Resi	1.5	1.5	1.1	1.1	0.4	26.7	PASS
R3/F04	W4/F04	Unknown-Resi	1.6	1.6	1.3	1.3	0.3	18.8	PASS
R4/F04	W5/F04	Unknown-Resi	3.4	3.4	2.7	2.7	0.7	20.6	PASS

Room	Window	Room Use	Average Daylight Factor						Pass / Fail
			Existing ADF	Total	Proposed ADF	Total	Loss	%	
R5/F04	W6/F04	Unknown-Resi	3.4	3.4	2.8	2.8	0.6	17.6	PASS
R6/F04	W7/F04	Unknown-Resi	1.6	1.6	1.4	1.4	0.2	12.5	PASS
R7/F04	W8/F04	Unknown-Resi	1.6	1.6	1.4	1.4	0.2	12.5	PASS
R8/F04	W9/F04	Unknown-Resi	1.6	1.6	1.4	1.4	0.2	12.5	PASS
R9/F04	W10/F04	Unknown-Resi	1.6	1.6	1.4	1.4	0.2	12.5	PASS
R10/F04	W11/F04	Unknown-Resi	3.3	3.3	2.6	2.6	0.7	21.2	PASS
R11/F04	W12/F04	Unknown-Resi	3.2	3.2	2.3	2.3	0.9	28.1	PASS
R12/F04	W13/F04	Unknown-Resi	1.4	1.4	1.0	1.0	0.4	28.6	PASS
R13/F04	W14/F04	Unknown-Resi	1.3	1.3	0.8	0.8	0.5	38.5	FAIL
R14/F04	W15/F04	Unknown-Resi	0.7	0.7	0.6	0.6	0.1	14.3	PASS
R15/F04	W16/F04	Unknown-Resi	1.6	1.6	1.3	1.3	0.3	18.8	PASS
R1/F05	W1/F05	Unknown-Resi	1.9		1.7				
R1/F05	W2/F05	Unknown-Resi	0.6	2.5	0.6	2.2	0.3	12.0	PASS
R2/F05	W3/F05	Unknown-Resi	1.6	1.6	1.3	1.3	0.3	18.8	PASS
R3/F05	W4/F05	Unknown-Resi	1.7	1.7	1.4	1.4	0.3	17.6	PASS
R4/F05	W5/F05	Unknown-Resi	3.5	3.5	2.9	2.9	0.6	17.1	PASS
R5/F05	W6/F05	Unknown-Resi	3.6	3.6	3.1	3.1	0.5	13.9	PASS
R6/F05	W7/F05	Unknown-Resi	1.7	1.7	1.5	1.5	0.2	11.8	PASS
R7/F05	W8/F05	Unknown-Resi	1.7	1.7	1.6	1.6	0.1	5.9	PASS
R8/F05	W9/F05	Unknown-Resi	1.7	1.7	1.5	1.5	0.2	11.8	PASS
R9/F05	W10/F05	Unknown-Resi	1.7	1.7	1.6	1.6	0.1	5.9	PASS
R10/F05	W11/F05	Unknown-Resi	3.6	3.6	3.1	3.1	0.5	13.9	PASS
R11/F05	W12/F05	Unknown-Resi	3.6	3.6	3.0	3.0	0.6	16.7	PASS
R12/F05	W13/F05	Unknown-Resi	1.7	1.7	1.3	1.3	0.4	23.5	PASS
R13/F05	W14/F05	Unknown-Resi	1.6	1.6	1.2	1.2	0.4	25.0	PASS
R14/F05	W15/F05	Unknown-Resi	0.8	0.8	0.7	0.7	0.1	12.5	PASS
R15/F05	W16/F05	Unknown-Resi	2.3	2.3	1.6	1.6	0.7	30.4	PASS
R1/F06	W4/F06	Unknown-Resi	3.3	3.3	2.9	2.9	0.4	12.1	PASS
R2/F06	W5/F06	Unknown-Resi	3.4	3.4	3.1	3.1	0.3	8.8	PASS
R3/F06	W6/F06	Unknown-Resi	3.5	3.5	3.3	3.3	0.2	5.7	PASS
R4/F06	W7/F06	Unknown-Resi	3.4	3.4	3.2	3.2	0.2	5.9	PASS
R5/F06	W8/F06	Unknown-Resi	3.5	3.5	3.4	3.4	0.1	2.9	PASS
R6/F06	W9/F06	Unknown-Resi	3.6	3.6	3.5	3.5	0.1	2.8	PASS

Room	Window	Room Use	Existing		Proposed		Loss	%	Pass / Fail
			ADF	Total	ADF	Total			
R7/F06	W10/F06	Unknown-Resi	3.6	3.6	3.6	3.6	0.0	0.0	PASS
R8/F06	W11/F06	Unknown-Resi	3.5	3.5	3.5	3.5	0.0	0.0	PASS
R9/F06	W12/F06	Unknown-Resi	3.4	3.4	3.4	3.4	0.0	0.0	PASS
R10/F06	W13/F06	Unknown-Resi	2.1		2.1				
R10/F06	W14/F06	Unknown-Resi	3.9	6.0	3.9	6.0	0.0	0.0	PASS
R11/F06	W1/F06	Unknown-Resi	2.4		2.4				
R11/F06	W2/F06	Unknown-Resi	2.0	4.4	1.5	3.9	0.5	11.4	PASS
R12/F06	W3/F06	Unknown-Resi	3.2	3.2	2.4	2.4	0.8	25.0	PASS
BRITANNIA MILLS - GRANITE WAREHOUSE									
R1/F00	W1/F00	Unknown-Resi	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R2/F00	W2/F00	Unknown-Resi	0.8		0.7				
R2/F00	W3/F00	Unknown-Resi	0.8	1.6	0.8	1.5	0.1	6.3	PASS
R1/F01	W1/F01	Unknown-Resi	1.6	1.6	1.5	1.5	0.1	6.3	PASS
R2/F01	W2/F01	Unknown-Resi	1.2		1.1				
R2/F01	W3/F01	Unknown-Resi	1.2	2.3	1.1	2.2	0.1	4.3	PASS
R3/F01	W4/F01	Unknown-Resi	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R1/F02	W1/F02	Unknown-Resi	1.5	1.5	1.4	1.4	0.1	6.7	PASS
R2/F02	W2/F02	Unknown-Resi	1.0		1.0				
R2/F02	W3/F02	Unknown-Resi	1.1	2.1	1.0	2.0	0.1	4.8	PASS
R3/F02	W4/F02	Unknown-Resi	1.2	1.2	1.1	1.1	0.1	8.3	PASS
BRITANNIA MILLS - BOILER WAREHOUSE									
R1/F00	W1/F00	Unknown-Resi	0.5	0.5	0.5	0.5	0.0	0.0	PASS
R2/F00	W2/F00	Unknown-Resi	0.0	0.0	0.0	0.0	0.0	-	PASS
R3/F00	W3/F00	Unknown-Resi	0.2	0.2	0.2	0.2	0.0	0.0	PASS
R4/F00	W4/F00	Unknown-Resi	0.9		0.9				
R4/F00	W5/F00	Unknown-Resi	0.9	1.9	0.9	1.9	0.0	0.0	PASS
R5/F00	W6/F00	Unknown-Resi	1.4	1.4	1.4	1.4	0.0	0.0	PASS
R1/F01	W1/F01	Unknown-Resi	0.4		0.3				
R1/F01	W2/F01	Unknown-Resi	0.1	0.5	0.0	0.4	0.1	20.0	PASS
R2/F01	W3/F01	Unknown-Resi	0.1		0.1				
R2/F01	W4/F01	Unknown-Resi	0.9	0.9	0.8	0.9	0.0	0.0	PASS
R3/F01	W5/F01	Unknown-Resi	1.1	1.1	1.0	1.0	0.1	9.1	PASS
R4/F01	W6/F01	Unknown-Resi	1.1		1.1				
R4/F01	W7/F01	Unknown-Resi	1.5	2.7	1.5	2.6	0.1	3.7	PASS
R5/F01	W8/F01	Unknown-Resi	0.7		0.7				
R5/F01	W9/F01	Unknown-Resi	1.2	1.9	1.1	1.8	0.1	5.3	PASS
R1/F02	W3/F02	Unknown-Resi	0.9		0.9				
R1/F02	W4/F02	Unknown-Resi	1.5	2.4	1.5	2.4	0.0	0.0	PASS
R2/F02	W1/F02	Unknown-Resi	1.5		1.5				

Room	Window	Room Use	Average Daylight Factor		Average Daylight Factor		Loss	%	Pass / Fail
			Existing	Proposed	Existing	Proposed			
ADF	Total	ADF	Total						
R2/F02	W2/F02	Unknown-Resi	0.9	2.4	0.9	2.4	0.0	0.0	PASS
BRITANNIA MILLS - SAND WAREHOUSE									
R1/F00	W1/F00	Unknown-Resi	1.8	1.8	1.8	1.8	0.0	0.0	PASS
R2/F00	W2/F00	Unknown-Resi	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R3/F00	W3/F00	Unknown-Resi	2.3	2.3	2.2	2.2	0.1	4.3	PASS
R4/F00	W4/F00	Unknown-Resi	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R5/F00	W5/F00	Unknown-Resi	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R6/F00	W6/F00	Unknown-Resi	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R7/F00	W7/F00	Unknown-Resi	2.0	2.0	2.0	2.0	0.0	0.0	PASS
R8/F00	W8/F00	Unknown-Resi	1.4		1.4				
R8/F00	W9/F00	Unknown-Resi	1.3		1.2				
R8/F00	W10/F00	Unknown-Resi	0.5	3.1	0.3	3.0	0.1	3.2	PASS
R9/F00	W11/F00	Kitchen-Resi	1.0		0.6				
R9/F00	W12/F00	Kitchen-Resi	2.0		1.9				
R9/F00	W13/F00	Kitchen-Resi	2.3	5.2	2.2	4.7	0.5	9.6	PASS
R10/F00	W14/F00	Kitchen-Resi	3.2	3.2	3.2	3.2	0.0	0.0	PASS
R1/F01	W1/F01	Unknown-Resi	2.2	2.2	2.2	2.2	0.0	0.0	PASS
R2/F01	W2/F01	Unknown-Resi	2.7	2.7	2.7	2.7	0.0	0.0	PASS
R3/F01	W3/F01	Unknown-Resi	2.8	2.8	2.8	2.8	0.0	0.0	PASS
R4/F01	W4/F01	Unknown-Resi	2.9	2.9	2.9	2.9	0.0	0.0	PASS
R5/F01	W5/F01	Unknown-Resi	2.9	2.9	2.9	2.9	0.0	0.0	PASS
R6/F01	W6/F01	Unknown-Resi	3.1	3.1	3.0	3.0	0.1	3.2	PASS
R7/F01	W7/F01	Unknown-Resi	2.8	2.8	2.8	2.8	0.0	0.0	PASS
R8/F01	W8/F01	Unknown-Resi	2.8	2.8	2.7	2.7	0.1	3.6	PASS
R9/F01	W9/F01	Unknown-Resi	2.0		1.9				
R9/F01	W10/F01	Unknown-Resi	1.0		0.8				
R9/F01	W11/F01	Unknown-Resi	1.0		0.8				
R9/F01	W12/F01	Unknown-Resi	1.0		0.8				
R9/F01	W13/F01	Unknown-Resi	0.2	5.1	0.1	4.5	0.6	11.8	PASS
R10/F01	W14/F01	Kitchen-Resi	0.2		0.1				
R10/F01	W16/F01	Kitchen-Resi	1.0		0.8				
R10/F01	W15/F01	Kitchen-Resi	1.0		0.8				
R10/F01	W17/F01	Kitchen-Resi	1.1		0.8				
R10/F01	W18/F01	Kitchen-Resi	2.3	5.6	2.3	4.9	0.7	12.5	PASS
R11/F01	W19/F01	Kitchen-Resi	3.3	3.3	3.3	3.3	0.0	0.0	PASS
R12/F01	W20/F01	Kitchen-Resi	3.4	3.4	3.3	3.3	0.1	2.9	PASS
R1/F02	W1/F02	Unknown-Resi	2.5	2.5	2.5	2.5	0.0	0.0	PASS
R2/F02	W2/F02	Unknown-Resi	3.0	3.0	3.0	3.0	0.0	0.0	PASS
R3/F02	W3/F02	Unknown-Resi	3.2	3.2	3.1	3.1	0.1	3.1	PASS

Room	Window	Room Use	Average Daylight Factor		Average Daylight Factor		Loss	%	Pass / Fail
			Existing	Total	Proposed	Total			
R4/F02	W4/F02	Unknown-Resi	3.3	3.3	3.2	3.2	0.1	3.0	PASS
R5/F02	W5/F02	Unknown-Resi	3.3	3.3	3.3	3.3	0.0	0.0	PASS
R6/F02	W6/F02	Unknown-Resi	3.4	3.4	3.4	3.4	0.0	0.0	PASS
R7/F02	W7/F02	Unknown-Resi	3.2	3.2	3.1	3.1	0.1	3.1	PASS
R8/F02	W8/F02	Unknown-Resi	3.2	3.2	3.1	3.1	0.1	3.1	PASS
R9/F02	W9/F02	Unknown-Resi	2.2		2.2				
R9/F02	W10/F02	Unknown-Resi	1.1		0.9				
R9/F02	W11/F02	Unknown-Resi	1.1		0.9				
R9/F02	W12/F02	Unknown-Resi	1.1		0.9				
R9/F02	W13/F02	Unknown-Resi	0.2	5.8	0.2	5.1	0.7	12.1	PASS
R10/F02	W14/F02	Kitchen-Resi	0.3		0.2				
R10/F02	W15/F02	Kitchen-Resi	1.1		0.9				
R10/F02	W16/F02	Kitchen-Resi	1.1		0.9				
R10/F02	W17/F02	Kitchen-Resi	1.2		0.9				
R10/F02	W18/F02	Kitchen-Resi	2.4	6.1	2.3	5.3	0.8	13.1	PASS
R11/F02	W19/F02	Kitchen-Resi	3.4	3.4	3.3	3.3	0.1	2.9	PASS
R12/F02	W20/F02	Kitchen-Resi	3.4	3.4	3.4	3.4	0.0	0.0	PASS
R1/F03	W1/F03	Unknown-Resi	6.1		6.1				
R1/F03	W1/F04	Unknown-Resi	3.0	9.1	3.0	9.1	0.0	0.0	PASS
R2/F03	W2/F03	Unknown-Resi	6.0		6.0				
R2/F03	W2/F04	Unknown-Resi	2.9	8.9	2.9	8.9	0.0	0.0	PASS
R3/F03	W3/F03	Unknown-Resi	6.2		6.1				
R3/F03	W3/F04	Unknown-Resi	3.0	9.1	2.9	9.0	0.1	1.1	PASS
R4/F03	W4/F03	Unknown-Resi	3.4		3.3				
R4/F03	W5/F03	Unknown-Resi	0.8		0.7				
R4/F03	W6/F03	Unknown-Resi	1.3		1.2				
R4/F03	W4/F04	Unknown-Resi	1.7		1.6				
R4/F03	W5/F04	Unknown-Resi	0.4		0.4				
R4/F03	W6/F04	Unknown-Resi	0.6	8.1	0.4	7.7	0.4	4.9	PASS
R5/F03	W7/F03	Unknown-Resi	1.3		1.1				
R5/F03	W8/F03	Unknown-Resi	0.7		0.7				
R5/F03	W9/F03	Unknown-Resi	3.0		3.0				
R5/F03	W12/F04	Unknown-Resi	1.6		1.6				
R5/F03	W11/F04	Unknown-Resi	0.4		0.4				
R5/F03	W10/F04	Unknown-Resi	0.6	7.6	0.4	7.2	0.4	5.3	PASS
R1/F04	W1/F04	Unknown-Resi	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R2/F04	W2/F04	Unknown-Resi	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R3/F04	W3/F04	Unknown-Resi	1.2	1.2	1.2	1.2	0.0	0.0	PASS
R4/F04	W4/F04	Unknown-Resi	3.1	3.1	2.7	2.7	0.4	12.9	PASS
R5/F04	W8/F04	Unknown-Resi	2.7	2.7	2.2	2.2	0.5	18.5	PASS
R6/F04	W9/F04	Unknown-Resi	2.4	2.4	2.0	2.0	0.4	16.7	PASS
BRITANNIA MILLS - EMERY WAREHOUSE									
R1/F00	W1/F00	Unknown-Resi	5.3	5.3	5.2	5.2	0.1	1.9	PASS
R2/F00	W2/F00	Unknown-Resi	3.2	3.2	3.1	3.1	0.1	3.1	PASS

Room	Window	Room Use	Average Daylight Factor				Loss	%	Pass / Fail
			Existing ADF	Total	Proposed ADF	Total			
R1/F01	W1/F01	Unknown-Resi	1.1		1.1				
R1/F01	W2/F01	Unknown-Resi	2.3	3.4	2.2	3.3	0.1	2.9	PASS
R2/F01	W3/F01	Unknown-Resi	3.7	3.7	3.6	3.6	0.1	2.7	PASS
R1/F02	W1/F02	Unknown-Resi	2.7		2.6				
R1/F02	W2/F02	Unknown-Resi	2.7	5.4	2.6	5.2	0.2	3.7	PASS
R2/F02	W3/F02	Unknown-Resi	4.4	4.4	4.3	4.3	0.1	2.3	PASS
R1/F03	W1/F03	Unknown-Resi	2.9		2.9				
R1/F03	W2/F03	Unknown-Resi	2.9	5.8	2.9	5.7	0.1	1.7	PASS
R2/F03	W3/F03	Unknown-Resi	4.9	4.9	4.8	4.8	0.1	2.0	PASS
BRITANNIA MILLS - FLINT WAREHOUSE									
R1/F00	W1/F00	Unknown-Resi	0.6	0.6	0.6	0.6	0.0	0.0	PASS
R2/F00	W2/F00	Unknown-Resi	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R3/F00	W3/F00	Unknown-Resi	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R4/F00	W4/F00	Unknown-Resi	0.7	0.7	0.7	0.7	0.0	0.0	PASS
R5/F00	W5/F00	Unknown-Resi	0.6	0.6	0.6	0.6	0.0	0.0	PASS
R1/F01	W1/F01	Unknown-Resi	0.9	0.9	0.9	0.9	0.0	0.0	PASS
R2/F01	W2/F01	Unknown-Resi	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R3/F01	W3/F01	Unknown-Resi	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R4/F01	W4/F01	Unknown-Resi	1.0	1.0	0.9	0.9	0.1	10.0	PASS
R5/F01	W5/F01	Unknown-Resi	0.8	0.8	0.8	0.8	0.0	0.0	PASS
R1/F02	W1/F02	Unknown-Resi	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R2/F02	W2/F02	Unknown-Resi	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R3/F02	W3/F02	Unknown-Resi	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R4/F02	W4/F02	Unknown-Resi	1.1	1.1	1.1	1.1	0.0	0.0	PASS
R5/F02	W5/F02	Unknown-Resi	0.9	0.9	0.9	0.9	0.0	0.0	PASS
TALBOT MILL TOWN HOUSE									
R1/F00	W1/F00	Bedroom	1.5	1.5	1.5	1.5	0.0	0.0	PASS
R2/F00	W4/F00	Circulation Space	1.0	1.0	1.0	1.0	0.0	0.0	PASS
R1/F01	W1/F01	Living Room	0.9		0.8				
R1/F01	W4/F00	Living Room	0.5	1.3	0.5	1.3	0.0	0.0	PASS
R1/F02	W2/F02	LKD	0.8		0.8				
R1/F02	W3/F02	LKD	0.2		0.2				
R1/F02	W1/F02	LKD	0.6		0.6				
R1/F02	W4/F00	LKD	0.4	2.0	0.4	2.0	0.0	0.0	PASS

*NSL daylight distribution & contour plots results for
existing site*

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	% Loss	% Prev	% New
1 ELLESMERE ST - ROOF GARDEN								
R1/F00	LKD	149.12	39.60	39.60	0.00	0.00	26.55	26.55
R2/F00	Bedroom	101.72	41.72	41.72	0.00	0.00	41.01	41.01
R3/F00	LKD	168.79	34.37	34.37	0.00	0.00	20.36	20.36
R4/F00	Bedroom	101.72	32.56	32.56	0.00	0.00	32.01	32.01
R5/F00	LKD	149.12	38.92	38.92	0.00	0.00	26.10	26.10
R6/F00	Bedroom	101.72	41.29	41.29	0.00	0.00	40.59	40.59
R7/F00	LKD	149.12	40.07	40.07	0.00	0.00	26.87	26.87
R8/F00	Bedroom	101.72	42.17	42.17	0.00	0.00	41.46	41.46
R9/F00	LKD	149.12	53.99	53.99	0.00	0.00	36.21	36.21
R10/F00	Bedroom	101.72	59.50	59.50	0.00	0.00	58.49	58.49
R11/F00	LKD	149.12	121.13	121.13	0.00	0.00	81.23	81.23
R12/F00	Bedroom	101.72	87.47	87.47	0.00	0.00	85.99	85.99
R13/F00	LKD	168.79	90.79	90.50	0.29	0.32	53.79	53.62
R14/F00	Bedroom	101.72	67.16	67.16	0.00	0.00	66.03	66.03
R15/F00	LKD	149.12	65.91	65.81	0.10	0.15	44.20	44.13
R16/F00	Bedroom	95.16	60.42	60.42	0.00	0.01	63.49	63.49
R17/F00	LKD	149.12	57.74	54.02	3.72	6.44	38.72	36.23
R18/F00	Bedroom	95.16	55.61	53.01	2.60	4.67	58.43	55.71
R19/F00	Bedroom	95.16	59.64	54.75	4.90	8.21	62.68	57.53
R20/F00	Bedroom	122.12	119.61	119.58	0.03	0.03	97.95	97.92
R21/F00	Bedroom	122.12	119.74	119.72	0.02	0.01	98.05	98.04
R22/F00	Bedroom	122.12	119.45	119.44	0.00	0.00	97.81	97.81
R23/F00	Bedroom	159.78	102.84	102.84	0.00	0.00	64.36	64.36
R24/F00	Bedroom	100.36	99.12	99.12	0.00	0.00	98.76	98.76
R25/F00	Bedroom	99.87	98.63	98.63	0.00	0.00	98.76	98.76
R26/F00	Bedroom	100.41	98.75	98.75	0.00	0.00	98.35	98.35
R27/F00	Bedroom	178.59	109.35	109.35	0.00	0.00	61.23	61.23
R28/F00	Bedroom	128.59	113.74	113.74	0.00	0.00	88.45	88.45
R29/F00	Bedroom	84.84	83.26	83.26	0.00	0.00	98.13	98.13
R30/F00	Bedroom	139.66	122.79	122.79	0.00	0.00	87.92	87.92
R1/F01	Bedroom	141.10	28.95	28.95	0.00	0.00	20.52	20.52
R2/F01	Bedroom	111.37	37.33	37.33	0.00	0.00	33.52	33.52
R3/F01	Bedroom	141.10	28.81	28.81	0.00	0.00	20.42	20.42
R4/F01	Bedroom	111.37	37.10	37.10	0.00	0.00	33.31	33.31
R5/F01	Bedroom	141.10	28.46	28.46	0.00	0.00	20.17	20.17
R6/F01	Bedroom	111.37	37.07	37.07	0.00	0.00	33.29	33.29
R7/F01	Bedroom	141.10	28.47	28.47	0.00	0.00	20.18	20.18
R8/F01	Bedroom	111.37	38.54	38.54	0.00	0.00	34.60	34.60
R9/F01	Bedroom	141.10	40.85	40.85	0.00	0.00	28.95	28.95
R10/F01	Bedroom	111.37	57.24	57.24	0.00	0.00	51.40	51.40
R11/F01	Bedroom	141.10	103.03	103.03	0.00	0.00	73.02	73.02
R12/F01	Bedroom	111.37	83.51	83.51	0.00	0.00	74.98	74.98
R13/F01	Bedroom	141.10	114.50	114.50	0.00	0.00	81.15	81.15
R14/F01	Bedroom	111.37	90.09	90.09	0.00	0.00	80.89	80.89
R15/F01	Bedroom	141.10	55.24	55.24	0.00	0.00	39.15	39.15
R16/F01	Bedroom	111.37	60.55	60.52	0.02	0.04	54.37	54.35
R17/F01	Bedroom	129.88	42.79	38.36	4.42	10.33	32.94	29.54
R18/F01	Bedroom	124.45	65.57	61.47	4.11	6.26	52.69	49.39
R19/F01	Bedroom	124.45	86.34	75.82	10.52	12.18	69.37	60.92
R20/F01	Bedroom	149.63	148.16	148.16	0.00	0.00	99.02	99.02
R21/F01	Bedroom	151.82	150.58	150.58	0.00	0.00	99.18	99.18
R22/F01	LKD	142.34	140.98	140.97	0.01	0.01	99.04	99.04
R23/F01	Bedroom	137.63	136.36	136.36	0.00	0.00	99.08	99.08
R24/F01	LKD	142.34	140.93	140.92	0.00	0.00	99.01	99.00
R25/F01	Bedroom	137.63	136.82	136.82	0.00	0.00	99.41	99.41
R26/F01	LKD	142.34	142.18	142.18	0.00	0.00	99.89	99.89
R27/F01	Bedroom	134.67	133.32	133.32	0.00	0.00	99.00	99.00
R28/F01	Bedroom	156.98	155.62	155.62	0.00	0.00	99.13	99.13
R29/F01	Bedroom	117.79	114.98	114.98	0.00	0.00	97.62	97.62
R30/F01	Bedroom	112.52	110.67	110.67	0.00	0.00	98.36	98.36
R31/F01	Bedroom	157.41	135.17	135.17	0.00	0.00	85.87	85.87
R32/F01	Bedroom	100.36	99.11	99.11	0.00	0.00	98.76	98.76
R33/F01	Bedroom	154.52	134.29	134.29	0.00	0.00	86.91	86.91
R34/F01	Bedroom	99.87	98.62	98.62	0.00	0.00	98.74	98.74
R35/F01	Bedroom	100.41	98.75	98.75	0.00	0.00	98.34	98.34
R36/F01	Bedroom	143.39	119.03	119.03	0.00	0.00	83.01	83.01
R37/F01	Bedroom	124.16	121.87	121.87	0.00	0.00	98.16	98.16
R38/F01	Bedroom	115.16	115.16	115.16	0.00	0.00	100.00	100.00
R39/F01	Bedroom	128.59	114.56	114.56	0.00	0.00	89.09	89.09
R40/F01	Bedroom	126.74	124.55	124.55	0.00	0.00	98.27	98.27

DAYLIGHT DISTRIBUTION ANALYSIS

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	% Loss	% Prev	% New
R41/F01	Bedroom	140.08	138.66	138.66	0.00	0.00	98.98	98.98
R42/F01	Bedroom	100.34	99.01	99.01	0.00	0.00	98.67	98.67
R43/F01	Bedroom	118.98	117.15	117.15	0.00	0.00	98.45	98.45
R44/F01	Bedroom	139.66	123.75	123.75	0.00	0.00	88.61	88.61
R1/F02	LKD	202.77	82.33	82.33	0.00	0.00	40.60	40.60
R2/F02	LKD	202.77	78.07	78.07	0.00	0.00	38.50	38.50
R3/F02	LKD	202.77	85.77	85.77	0.00	0.00	42.30	42.30
R4/F02	LKD	202.77	102.10	102.10	0.00	0.00	50.36	50.36
R5/F02	LKD	202.77	142.74	142.74	0.00	0.00	70.40	70.40
R6/F02	LKD	202.77	175.27	175.27	0.00	0.00	86.44	86.44
R7/F02	LKD	202.77	182.82	179.02	3.80	2.08	90.17	88.29
R8/F02	LKD	202.77	140.03	120.19	19.84	14.17	69.06	59.27
R9/F02	LKD	204.94	149.85	119.34	30.51	20.36	73.12	58.23
R10/F02	LKD	198.82	146.70	118.10	28.60	19.50	73.79	59.40
R11/F02	LKD	234.78	232.37	232.37	0.00	0.00	98.97	98.97
R12/F02	LKD	214.85	213.31	213.31	0.00	0.00	99.28	99.28
R13/F02	LKD	152.50	150.94	150.93	0.01	0.01	98.97	98.97
R14/F02	Bedroom	127.43	126.66	126.66	0.00	0.00	99.39	99.39
R15/F02	LKD	152.50	150.93	150.93	0.00	0.00	98.97	98.97
R16/F02	Bedroom	127.43	126.59	126.59	0.00	0.00	99.34	99.34
R17/F02	LKD	152.50	150.87	150.87	0.00	0.00	98.93	98.93
R18/F02	Bedroom	127.43	126.55	126.55	0.00	0.00	99.30	99.30
R19/F02	LKD	254.01	252.74	252.73	0.00	0.00	99.50	99.50
R20/F02	LKD	296.78	296.00	296.00	0.00	0.00	99.74	99.74
R21/F02	LKD	301.21	295.21	295.21	0.00	0.00	98.01	98.01
R22/F02	LKD	302.88	283.07	283.07	0.00	0.00	93.46	93.46
R23/F02	LKD	303.16	283.40	283.40	0.00	0.00	93.48	93.48
R24/F02	LKD	328.15	325.32	325.32	0.00	0.00	99.14	99.14
R25/F02	LKD	292.86	281.42	281.42	0.00	0.00	96.10	96.10
R26/F02	LKD	306.35	303.02	303.02	0.00	0.00	98.91	98.91
R27/F02	LKD	132.60	122.50	122.50	0.00	0.00	92.38	92.38
R28/F02	LKD	139.66	131.38	131.38	0.00	0.00	94.07	94.07
R1/F03	Living Room	152.00	56.57	56.57	0.00	0.00	37.22	37.22
R2/F03	Living Room	152.00	54.95	54.95	0.00	0.00	36.15	36.15
R3/F03	Living Room	152.00	55.13	55.13	0.00	0.00	36.27	36.27
R4/F03	Living Room	152.00	62.53	62.53	0.00	0.00	41.14	41.14
R5/F03	Living Room	152.00	104.13	104.13	0.00	0.00	68.51	68.51
R6/F03	Living Room	152.00	136.38	136.38	0.00	0.00	89.72	89.72
R7/F03	Living Room	152.00	144.32	144.32	0.00	0.00	94.95	94.95
R8/F03	Living Room	152.00	100.07	100.00	0.07	0.07	65.84	65.79
R9/F03	Living Room	152.00	128.13	101.74	26.39	20.60	84.30	66.94
R10/F03	Living Room	152.00	147.34	108.66	38.68	26.25	96.94	71.49
R11/F03	Living Room	145.93	144.24	144.24	0.00	0.00	98.85	98.85
R12/F03	Living Room	145.94	143.96	143.96	0.00	0.00	98.64	98.64
R13/F03	Living Room	150.24	145.99	145.99	0.00	0.00	97.17	97.17
R14/F03	Bedroom	96.22	83.01	83.00	0.00	0.00	86.26	86.26
R15/F03	Living Room	150.27	146.08	146.08	0.00	0.00	97.22	97.21
R16/F03	Bedroom	96.22	82.78	82.77	0.00	0.00	86.02	86.02
R17/F03	Living Room	150.29	145.74	145.74	0.00	0.00	96.97	96.97
R18/F03	Bedroom	96.22	84.55	84.55	0.00	0.00	87.87	87.87
R19/F03	Living Room	184.31	175.52	175.51	0.00	0.00	95.23	95.23

BURTON PLACE

R1/F01	Unknown-Resi	266.46	265.33	261.70	3.63	1.37	99.58	98.22
R2/F01	Unknown-Resi	114.64	98.56	45.19	53.37	54.15	85.98	39.42
R3/F01	Unknown-Resi	112.08	104.27	60.64	43.63	41.85	93.03	54.10
R4/F01	Unknown-Resi	158.20	158.20	156.16	2.04	1.29	100.00	98.71
R5/F01	Unknown-Resi	158.20	158.20	152.92	5.28	3.34	100.00	96.66
R6/F01	Unknown-Resi	114.64	110.76	110.54	0.22	0.20	96.62	96.42
R7/F01	Unknown-Resi	111.13	107.27	105.89	1.38	1.29	96.53	95.28
R8/F01	Unknown-Resi	114.64	110.25	108.47	1.78	1.62	96.17	94.62
R9/F01	Unknown-Resi	112.08	108.35	108.19	0.16	0.15	96.67	96.53
R10/F01	Unknown-Resi	158.20	158.20	134.21	23.99	15.16	100.00	84.84
R11/F01	Unknown-Resi	158.20	158.20	133.92	24.28	15.35	100.00	84.65
R12/F01	Unknown-Resi	114.56	57.85	19.92	37.93	65.57	50.50	17.39
R13/F01	Unknown-Resi	115.39	44.77	8.13	36.63	81.83	38.79	7.05
R14/F01	Unknown-Resi	183.42	124.09	100.15	23.94	19.29	67.66	54.60
R15/F01	Unknown-Resi	178.70	168.78	164.44	4.34	2.57	94.45	92.02
R1/F02	Unknown-Resi	266.46	265.33	264.32	1.01	0.38	99.58	99.20
R2/F02	Unknown-Resi	114.64	98.60	46.67	51.93	52.67	86.01	40.71
R3/F02	Unknown-Resi	112.08	104.41	64.91	39.50	37.83	93.15	57.91
R4/F02	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00

DAYLIGHT DISTRIBUTION ANALYSIS

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	% Loss	% Prev	% New
R5/F02	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R6/F02	Unknown-Resi	114.64	110.77	110.72	0.05	0.05	96.63	96.59
R7/F02	Unknown-Resi	111.13	107.30	107.21	0.09	0.09	96.55	96.47
R8/F02	Unknown-Resi	114.64	110.04	109.66	0.38	0.34	95.99	95.66
R9/F02	Unknown-Resi	112.08	108.36	108.30	0.05	0.05	96.68	96.63
R10/F02	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R11/F02	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R12/F02	Unknown-Resi	114.56	64.96	21.93	43.04	66.25	56.71	19.14
R13/F02	Unknown-Resi	115.39	48.82	10.09	38.72	79.32	42.31	8.75
R14/F02	Unknown-Resi	183.42	130.20	114.68	15.52	11.92	70.99	62.52
R15/F02	Unknown-Resi	179.35	175.21	175.21	0.00	0.00	97.69	97.69
R1/F03	Unknown-Resi	266.46	265.33	264.41	0.93	0.35	99.58	99.23
R2/F03	Unknown-Resi	114.64	99.33	50.70	48.64	48.96	86.65	44.22
R3/F03	Unknown-Resi	112.08	105.33	73.09	32.24	30.61	93.98	65.21
R4/F03	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R5/F03	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R6/F03	Unknown-Resi	114.64	110.70	110.68	0.02	0.02	96.56	96.55
R7/F03	Unknown-Resi	111.13	107.31	107.28	0.03	0.03	96.56	96.54
R8/F03	Unknown-Resi	114.64	110.14	110.05	0.08	0.07	96.07	96.00
R9/F03	Unknown-Resi	112.08	108.36	108.33	0.03	0.02	96.68	96.66
R10/F03	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R11/F03	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R12/F03	Unknown-Resi	114.56	85.00	28.68	56.32	66.26	74.20	25.04
R13/F03	Unknown-Resi	115.39	58.29	16.66	41.63	71.42	50.51	14.44
R14/F03	Unknown-Resi	183.42	134.67	125.82	8.85	6.57	73.42	68.60
R15/F03	Unknown-Resi	179.35	177.29	177.29	0.00	0.00	98.85	98.85
R1/F04	Unknown-Resi	266.46	265.33	264.77	0.56	0.21	99.58	99.37
R2/F04	Unknown-Resi	114.64	102.59	60.10	42.49	41.42	89.49	52.43
R3/F04	Unknown-Resi	112.08	108.32	83.87	24.45	22.57	96.65	74.83
R4/F04	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R5/F04	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R6/F04	Unknown-Resi	114.64	110.70	110.69	0.01	0.01	96.57	96.56
R7/F04	Unknown-Resi	111.13	107.32	107.31	0.01	0.01	96.57	96.56
R8/F04	Unknown-Resi	114.64	110.08	110.05	0.03	0.03	96.03	96.00
R9/F04	Unknown-Resi	112.08	108.36	108.35	0.01	0.01	96.68	96.67
R10/F04	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R11/F04	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R12/F04	Unknown-Resi	114.56	110.43	48.05	62.38	56.49	96.40	41.95
R13/F04	Unknown-Resi	115.39	104.18	37.56	66.62	63.95	90.28	32.55
R14/F04	Unknown-Resi	183.42	141.30	139.95	1.35	0.95	77.04	76.30
R15/F04	Unknown-Resi	179.35	178.05	178.05	0.00	0.00	99.28	99.28
R1/F05	Unknown-Resi	266.47	265.35	265.17	0.18	0.07	99.58	99.51
R2/F05	Unknown-Resi	114.64	110.10	80.42	29.68	26.96	96.05	70.15
R3/F05	Unknown-Resi	112.08	108.47	95.70	12.77	11.77	96.78	85.39
R4/F05	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R5/F05	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R6/F05	Unknown-Resi	114.64	110.70	110.70	0.00	0.00	96.57	96.57
R7/F05	Unknown-Resi	111.13	107.32	107.31	0.00	0.00	96.57	96.56
R8/F05	Unknown-Resi	114.64	110.06	110.04	0.02	0.01	96.00	95.99
R9/F05	Unknown-Resi	112.08	108.37	108.36	0.01	0.01	96.69	96.68
R10/F05	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R11/F05	Unknown-Resi	158.20	158.20	158.20	0.00	0.00	100.00	100.00
R12/F05	Unknown-Resi	114.56	110.61	110.61	0.00	0.00	96.56	96.56
R13/F05	Unknown-Resi	115.39	111.09	111.09	0.00	0.00	96.27	96.27
R14/F05	Unknown-Resi	183.42	156.26	156.22	0.04	0.03	85.20	85.17
R15/F05	Unknown-Resi	179.35	178.62	178.62	0.00	0.00	99.59	99.59
R1/F06	Unknown-Resi	217.38	217.34	217.34	0.00	0.00	99.98	99.98
R2/F06	Unknown-Resi	198.32	198.32	198.32	0.00	0.00	100.00	100.00
R3/F06	Unknown-Resi	203.62	203.62	203.62	0.00	0.00	100.00	100.00
R4/F06	Unknown-Resi	198.32	198.32	198.32	0.00	0.00	100.00	100.00
R5/F06	Unknown-Resi	217.38	217.33	217.33	0.00	0.00	99.98	99.98
R6/F06	Unknown-Resi	198.32	198.32	198.32	0.00	0.00	100.00	100.00
R7/F06	Unknown-Resi	203.62	203.62	203.62	0.00	0.00	100.00	100.00
R8/F06	Unknown-Resi	198.32	198.31	198.31	0.00	0.00	100.00	100.00
R9/F06	Unknown-Resi	217.64	217.61	217.61	0.00	0.00	99.99	99.99
R10/F06	Unknown-Resi	385.91	385.91	385.91	0.00	0.00	100.00	100.00
R11/F06	Unknown-Resi	394.83	394.83	394.82	0.01	0.00	100.00	100.00
R12/F06	Unknown-Resi	217.64	217.43	217.43	0.00	0.00	99.91	99.91

BRITANNIA MILLS - GRANITE WAREHOUSE

R1/F00	Unknown-Resi	109.64	107.35	106.97	0.38	0.36	97.91	97.56
R2/F00	Unknown-Resi	181.47	178.90	177.86	1.03	0.58	98.58	98.01

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	% Loss	% Prev	% New
R1/F01	Unknown-Resi	109.64	108.07	107.98	0.09	0.08	98.57	98.49
R2/F01	Unknown-Resi	181.47	179.92	179.78	0.14	0.08	99.14	99.07
R3/F01	Unknown-Resi	162.41	125.46	125.46	0.00	0.00	77.25	77.25
R1/F02	Unknown-Resi	109.64	108.02	107.94	0.08	0.07	98.52	98.45
R2/F02	Unknown-Resi	181.47	179.63	179.55	0.09	0.05	98.99	98.94
R3/F02	Unknown-Resi	162.41	141.19	141.19	0.00	0.00	86.93	86.93

BRITANNIA MILLS - BOILER WAREHOUSE

R1/F00	Unknown-Resi	153.71	23.63	19.87	3.77	15.94	15.38	12.93
R2/F00	Unknown-Resi	91.71	8.04	2.18	5.86	72.90	8.77	2.38
R3/F00	Unknown-Resi	116.73	32.12	18.67	13.45	41.88	27.52	15.99
R4/F00	Unknown-Resi	286.66	209.78	209.78	0.00	0.00	73.18	73.18
R5/F00	Unknown-Resi	160.45	102.74	102.74	0.00	0.00	64.03	64.03
R1/F01	Unknown-Resi	317.64	68.53	50.47	18.06	26.36	21.57	15.89
R2/F01	Unknown-Resi	208.72	123.90	103.45	20.44	16.50	59.36	49.57
R3/F01	Unknown-Resi	133.61	38.84	36.90	1.94	5.01	29.07	27.62
R4/F01	Unknown-Resi	181.36	181.36	181.36	0.00	0.00	100.00	100.00
R5/F01	Unknown-Resi	363.51	363.51	363.51	0.00	0.00	100.00	100.00
R1/F02	Unknown-Resi	356.30	265.11	265.11	0.00	0.00	74.41	74.41
R2/F02	Unknown-Resi	346.44	236.49	236.49	0.00	0.00	68.26	68.26

BRITANNIA MILLS - SAND WAREHOUSE

R1/F00	Unknown-Resi	190.90	186.61	186.60	0.01	0.00	97.75	97.75
R2/F00	Unknown-Resi	156.33	155.21	155.21	0.00	0.00	99.29	99.29
R3/F00	Unknown-Resi	156.33	155.37	155.37	0.00	0.00	99.39	99.39
R4/F00	Unknown-Resi	156.33	155.50	155.50	0.00	0.00	99.47	99.47
R5/F00	Unknown-Resi	156.33	144.91	144.91	0.00	0.00	92.69	92.69
R6/F00	Unknown-Resi	146.32	145.79	145.78	0.02	0.01	99.64	99.63
R7/F00	Unknown-Resi	166.94	166.20	166.07	0.13	0.08	99.56	99.48
R8/F00	Unknown-Resi	268.05	267.89	267.31	0.58	0.22	99.94	99.72
R9/F00	Kitchen-Resi	265.49	265.25	264.92	0.33	0.12	99.91	99.79
R10/F00	Kitchen-Resi	166.55	166.10	165.74	0.36	0.22	99.73	99.51
R1/F01	Unknown-Resi	190.90	189.37	189.37	0.01	0.00	99.20	99.20
R2/F01	Unknown-Resi	156.33	155.94	155.94	0.00	0.00	99.75	99.75
R3/F01	Unknown-Resi	156.33	155.98	155.98	0.00	0.00	99.77	99.77
R4/F01	Unknown-Resi	156.33	156.00	156.00	0.00	0.00	99.79	99.79
R5/F01	Unknown-Resi	156.33	156.01	156.01	0.00	0.00	99.80	99.80
R6/F01	Unknown-Resi	146.24	146.06	146.06	0.00	0.00	99.87	99.87
R7/F01	Unknown-Resi	166.55	166.05	166.03	0.02	0.01	99.70	99.69
R8/F01	Unknown-Resi	166.55	166.09	166.08	0.01	0.00	99.72	99.72
R9/F01	Unknown-Resi	267.01	266.85	266.85	0.00	0.00	99.94	99.94
R10/F01	Kitchen-Resi	268.97	268.70	268.70	0.00	0.00	99.90	99.90
R11/F01	Kitchen-Resi	166.55	166.00	165.99	0.01	0.01	99.67	99.66
R12/F01	Kitchen-Resi	166.55	166.09	165.96	0.12	0.07	99.72	99.65
R1/F02	Unknown-Resi	190.90	189.53	189.53	0.00	0.00	99.29	99.28
R2/F02	Unknown-Resi	156.33	155.98	155.98	0.00	0.00	99.78	99.78
R3/F02	Unknown-Resi	156.33	156.01	156.01	0.00	0.00	99.79	99.79
R4/F02	Unknown-Resi	156.33	156.02	156.02	0.00	0.00	99.80	99.80
R5/F02	Unknown-Resi	156.33	156.03	156.03	0.00	0.00	99.81	99.81
R6/F02	Unknown-Resi	146.24	146.06	146.06	0.00	0.00	99.88	99.87
R7/F02	Unknown-Resi	166.55	166.06	166.05	0.01	0.00	99.71	99.70
R8/F02	Unknown-Resi	166.55	166.09	166.09	0.00	0.00	99.73	99.72
R9/F02	Unknown-Resi	267.01	266.85	266.85	0.00	0.00	99.94	99.94
R10/F02	Kitchen-Resi	268.97	268.70	268.70	0.00	0.00	99.90	99.90
R11/F02	Kitchen-Resi	166.55	166.00	166.00	0.00	0.00	99.67	99.67
R12/F02	Kitchen-Resi	166.55	166.09	166.06	0.03	0.02	99.72	99.70
R1/F03	Unknown-Resi	357.31	357.18	357.18	0.00	0.00	99.96	99.96
R2/F03	Unknown-Resi	312.57	312.50	312.50	0.00	0.00	99.98	99.98
R3/F03	Unknown-Resi	314.04	314.01	314.01	0.00	0.00	99.99	99.99
R4/F03	Unknown-Resi	671.95	671.95	671.95	0.00	0.00	100.00	100.00
R5/F03	Unknown-Resi	697.05	697.05	697.05	0.00	0.00	100.00	100.00
R1/F04	Unknown-Resi	419.98	419.98	419.98	0.00	0.00	100.00	100.00
R2/F04	Unknown-Resi	368.61	368.61	368.61	0.00	0.00	100.00	100.00
R3/F04	Unknown-Resi	368.61	368.61	368.61	0.00	0.00	100.00	100.00
R4/F04	Unknown-Resi	357.58	357.58	357.58	0.00	0.00	100.00	100.00
R5/F04	Unknown-Resi	120.85	120.84	120.84	0.00	0.00	100.00	100.00
R6/F04	Unknown-Resi	334.93	334.93	334.93	0.00	0.00	100.00	100.00

BRITANNIA MILLS - EMERY WAREHOUSE

R1/F00	Unknown-Resi	329.37	329.32	329.32	0.00	0.00	99.98	99.98
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Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	% Loss	% Prev	% New
R2/F00	Unknown-Resi	146.73	146.54	146.54	0.00	0.00	99.87	99.87
R1/F01	Unknown-Resi	329.37	317.51	317.51	0.00	0.00	96.40	96.40
R2/F01	Unknown-Resi	146.73	146.55	146.55	0.00	0.00	99.88	99.88
R1/F02	Unknown-Resi	329.37	328.77	328.77	0.00	0.00	99.82	99.82
R2/F02	Unknown-Resi	146.73	146.63	146.63	0.00	0.00	99.93	99.93
R1/F03	Unknown-Resi	329.37	328.79	328.79	0.00	0.00	99.82	99.82
R2/F03	Unknown-Resi	146.73	146.63	146.63	0.00	0.00	99.93	99.93

BRITANNIA MILLS - FLINT WAREHOUSE

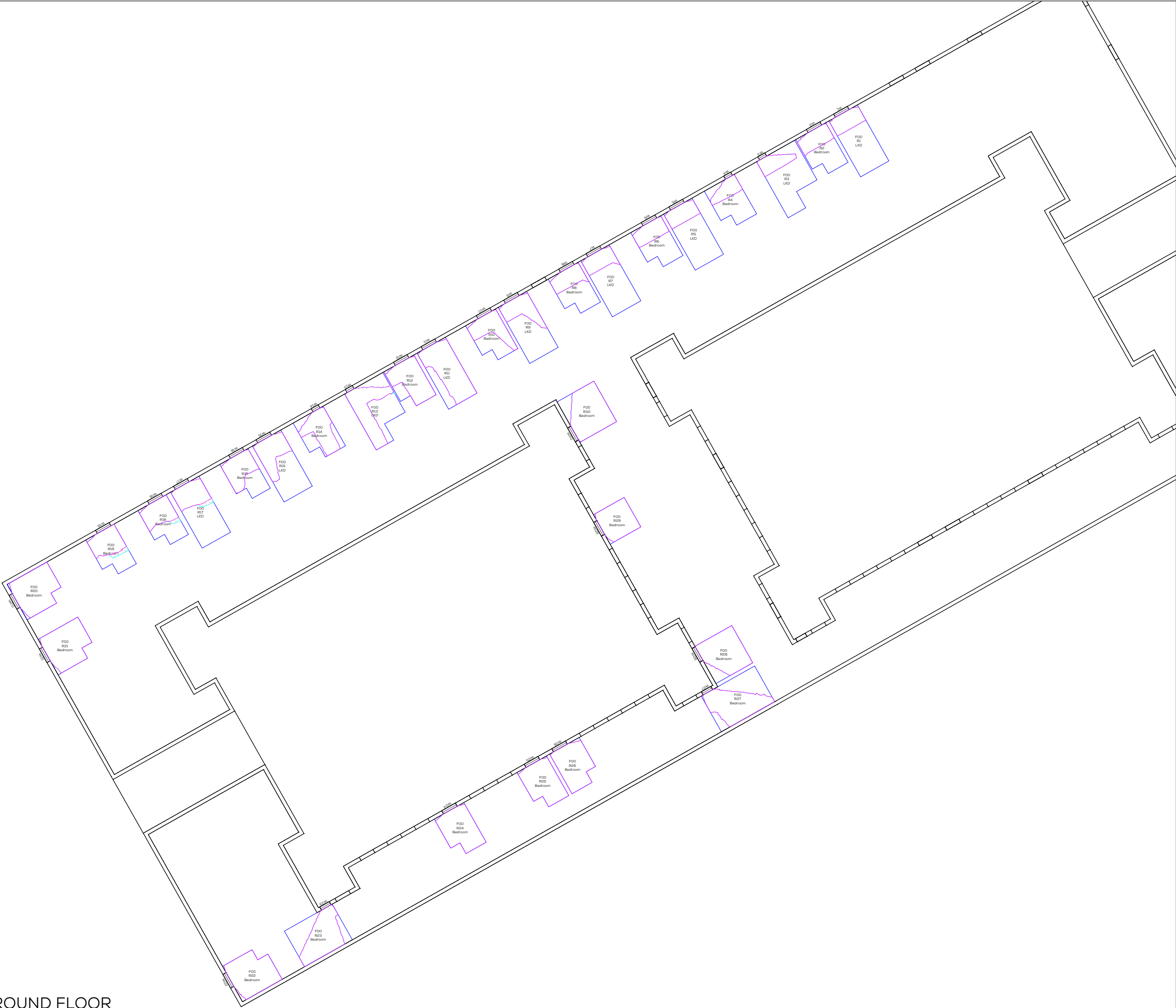
R1/F00	Unknown-Resi	133.85	132.20	132.20	0.00	0.00	98.76	98.76
R2/F00	Unknown-Resi	134.53	131.53	131.42	0.12	0.09	97.77	97.69
R3/F00	Unknown-Resi	134.53	134.48	134.48	0.00	0.00	99.96	99.96
R4/F00	Unknown-Resi	134.53	133.73	133.73	0.00	0.00	99.41	99.41
R5/F00	Unknown-Resi	134.92	129.77	129.77	0.00	0.00	96.19	96.19
R1/F01	Unknown-Resi	133.85	133.80	133.80	0.00	0.00	99.97	99.97
R2/F01	Unknown-Resi	134.53	134.49	134.49	0.00	0.00	99.97	99.97
R3/F01	Unknown-Resi	134.53	134.49	134.49	0.00	0.00	99.97	99.97
R4/F01	Unknown-Resi	134.53	134.48	134.48	0.00	0.00	99.96	99.96
R5/F01	Unknown-Resi	134.92	134.84	134.84	0.00	0.00	99.95	99.95
R1/F02	Unknown-Resi	133.85	133.33	133.33	0.00	0.00	99.61	99.61
R2/F02	Unknown-Resi	134.53	134.04	134.04	0.00	0.00	99.64	99.64
R3/F02	Unknown-Resi	134.53	134.06	134.06	0.00	0.00	99.65	99.65
R4/F02	Unknown-Resi	134.53	134.21	134.21	0.00	0.00	99.76	99.76
R5/F02	Unknown-Resi	134.92	134.85	134.85	0.00	0.00	99.95	99.95

TALBOT MILL TOWN HOUSE

R1/F00	Bedroom	264.51	253.87	217.31	36.56	14.40	95.98	82.16
R2/F00	Circulation Space	113.16	0.00	0.00	0.00	0.00	0.00	0.00
R1/F01	Living Room	393.43	386.85	320.54	66.31	17.14	98.33	81.48
R1/F02	LKD	649.92	649.92	596.86	53.06	8.16	100.00	91.84



GROUND FLOOR
SCALE 1:300



SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

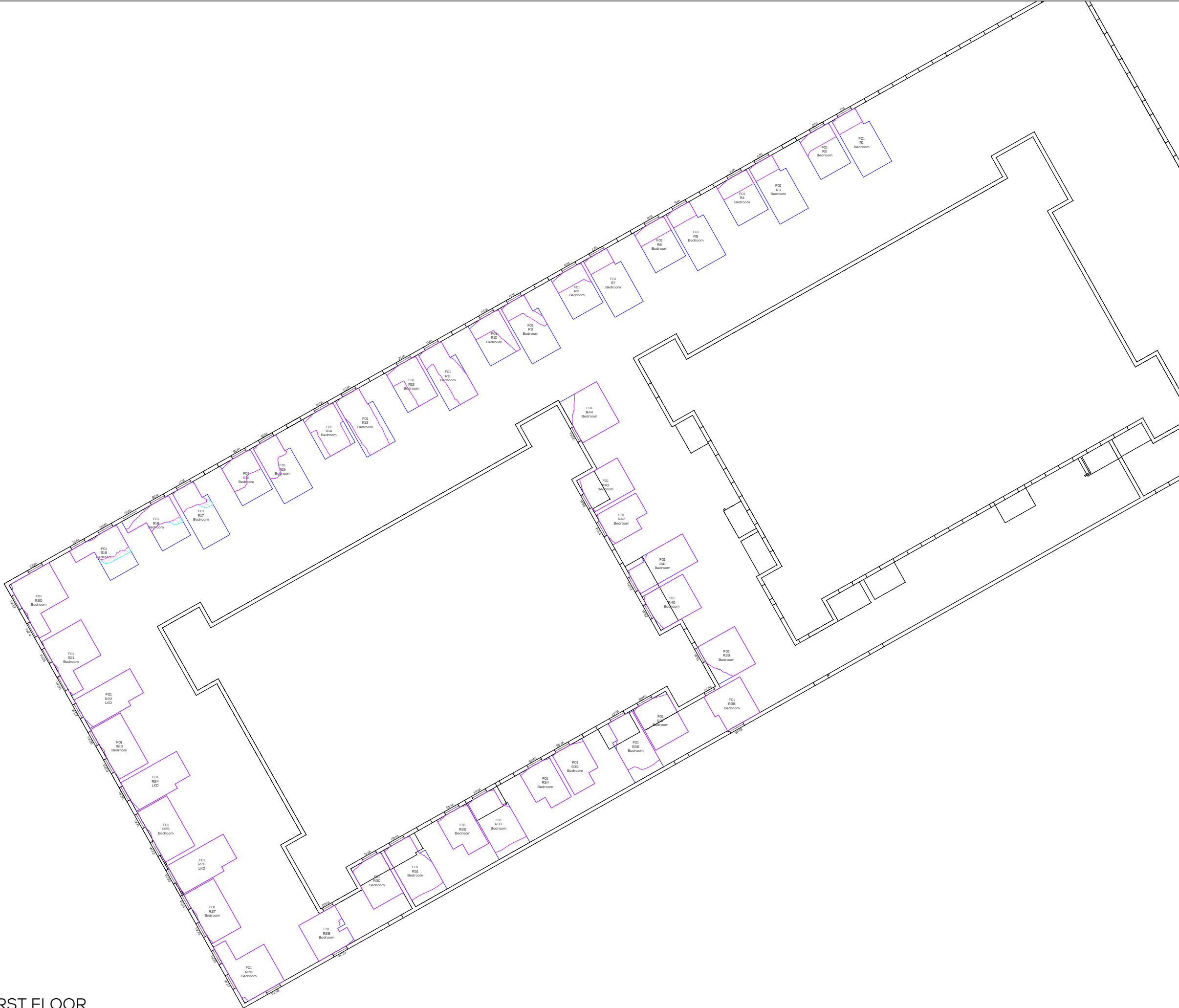
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
1 ELLESMERE STREET-ROOF GARDEN
GROUND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:300@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	07	-



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L O N D O N • M A N C H E S T E R



SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

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PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
1 ELLESMERE STREET-ROOF GARDEN
FIRST FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:300@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	08	-



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L O N D O N • M A N C H E S T E R



SOURCES OF INFORMATION

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IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

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PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
1 ELLESMERE STREET-ROOF GARDEN
SECOND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
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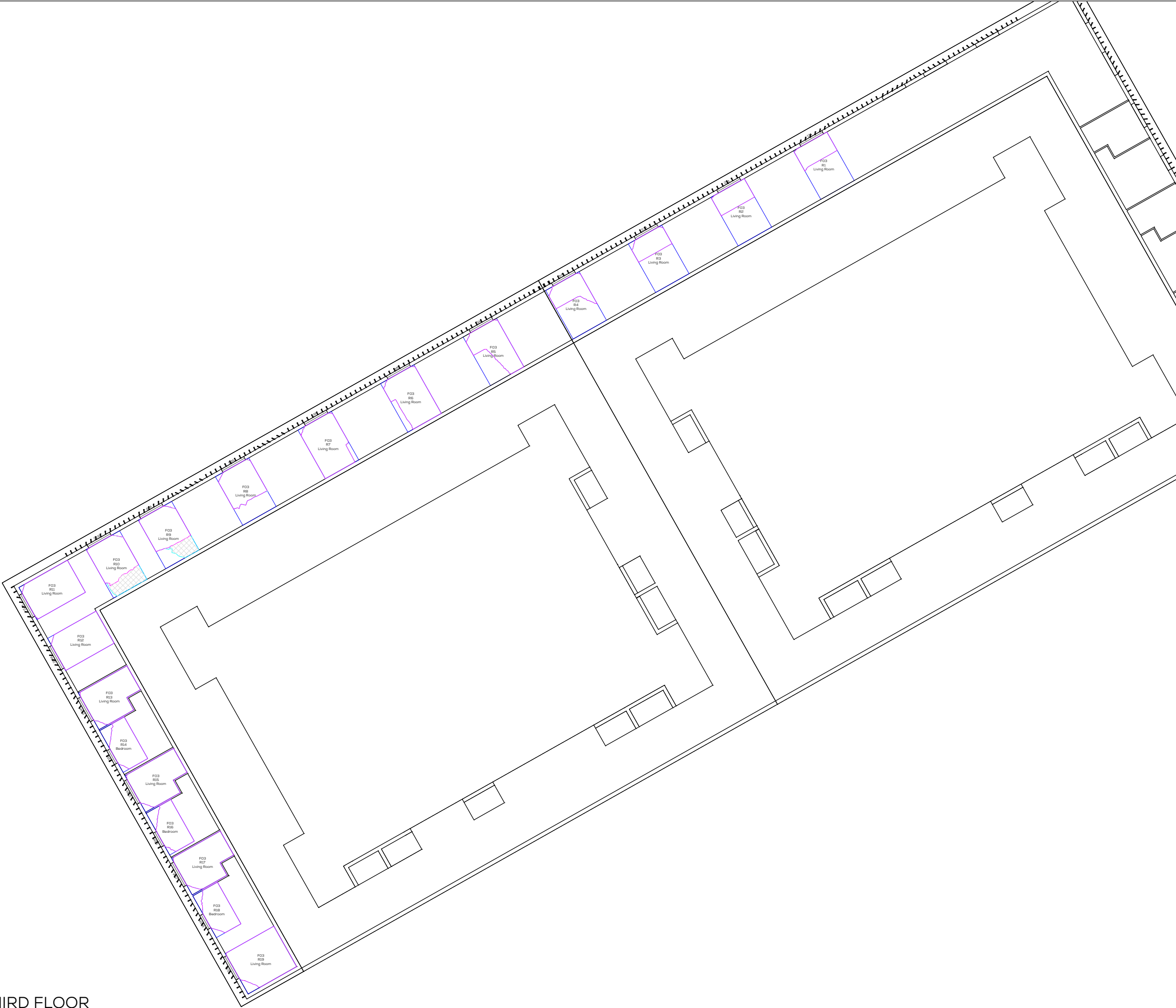
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THIRD FLOOR
SCALE 1:300



SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
1 ELLESMERE STREET-ROOF GARDEN
THIRD FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:300@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	10	-



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FIRST FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
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IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
FIRST FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	11	-



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SECOND FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
SECOND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	12	-



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SOURCES OF INFORMATION

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

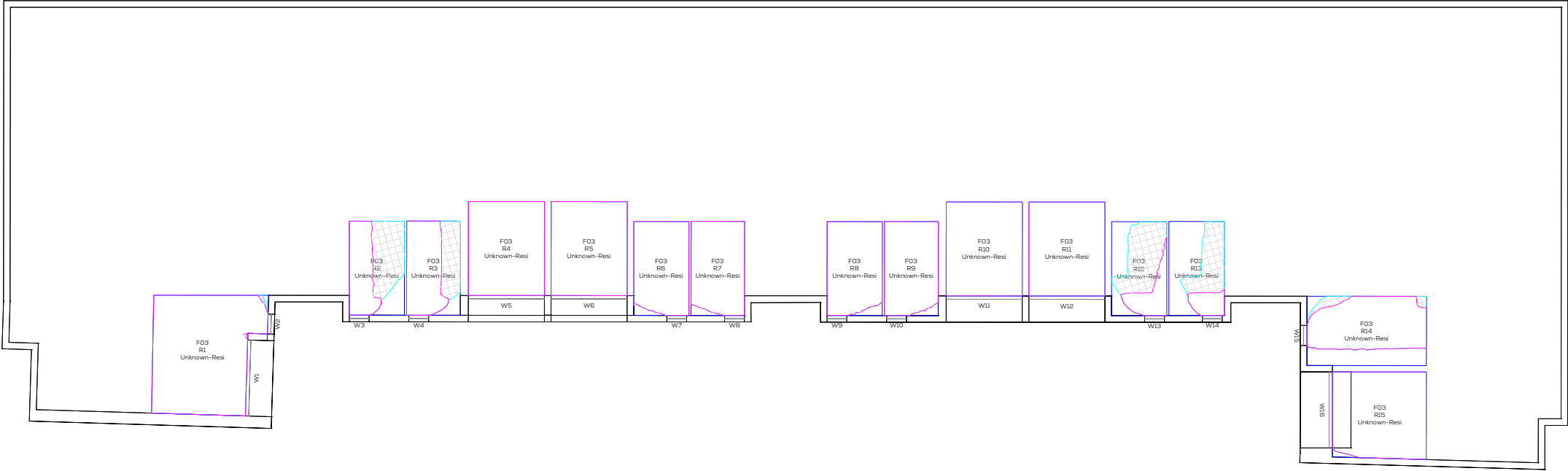
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
THIRD FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	13	-



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FOURTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
FOURTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	14	-



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FIFTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
FIFTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	15	-



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SIXTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

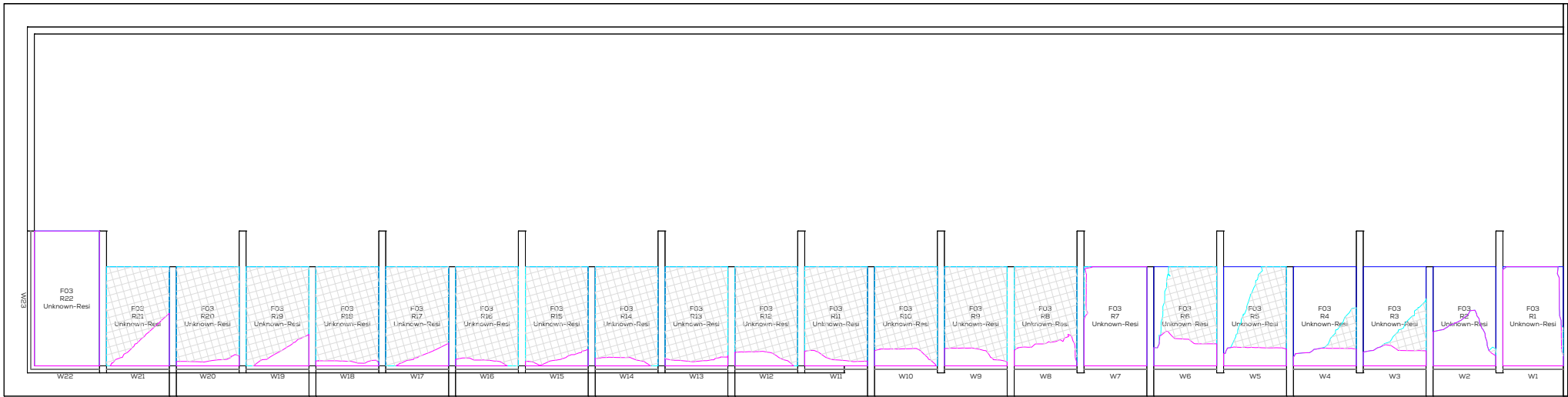
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BURTON PLACE
SIXTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
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PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	16	-

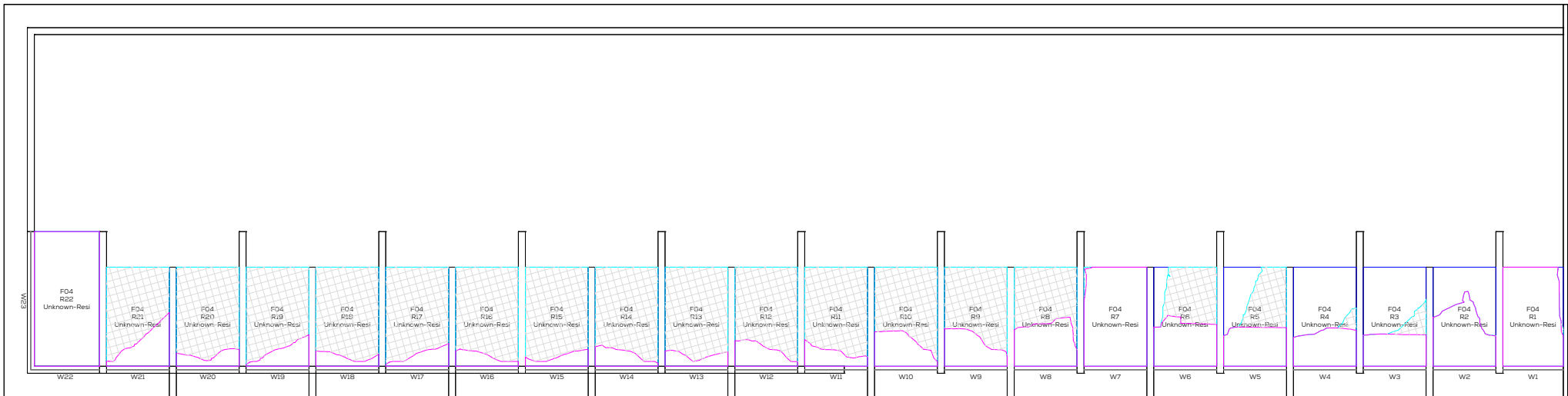


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THIRD FLOOR
SCALE 1:250



FOURTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

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IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

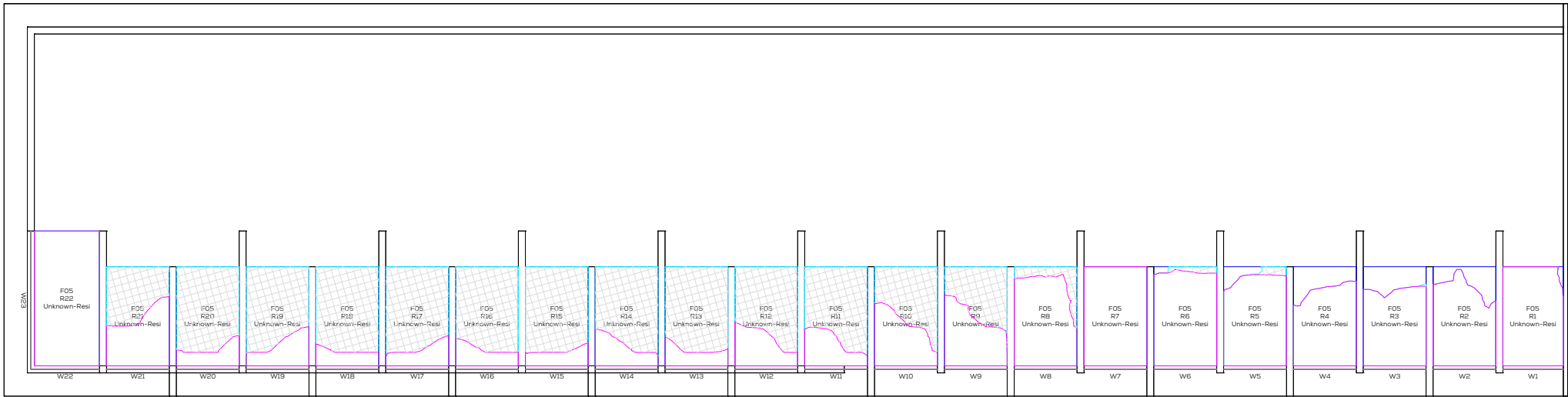
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
TIMBERWHARF
THIRD AND FOURTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	17	-

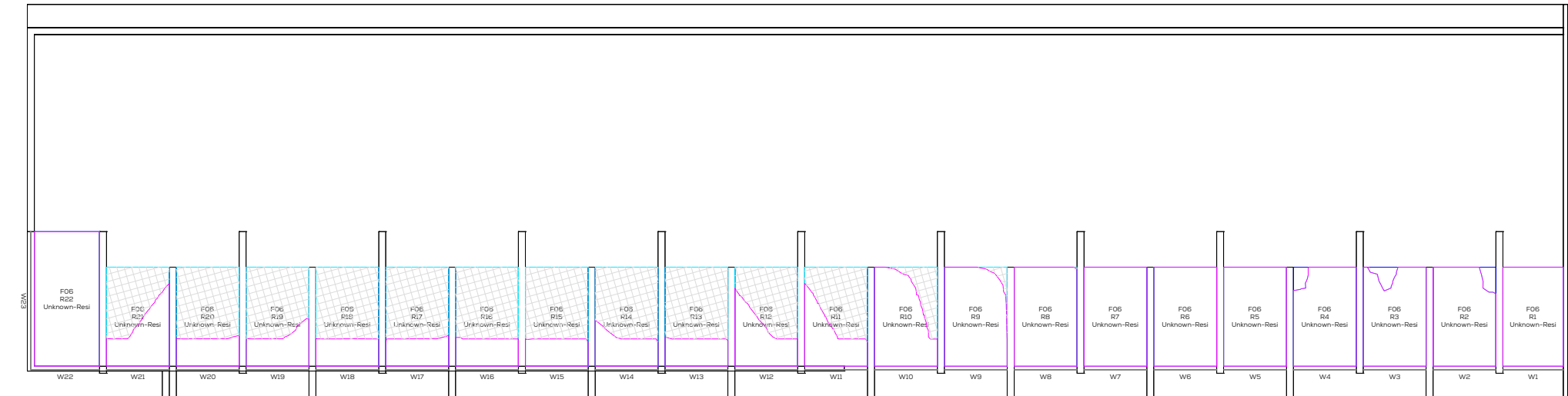


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FIFTH FLOOR
SCALE 1:250



SIXTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

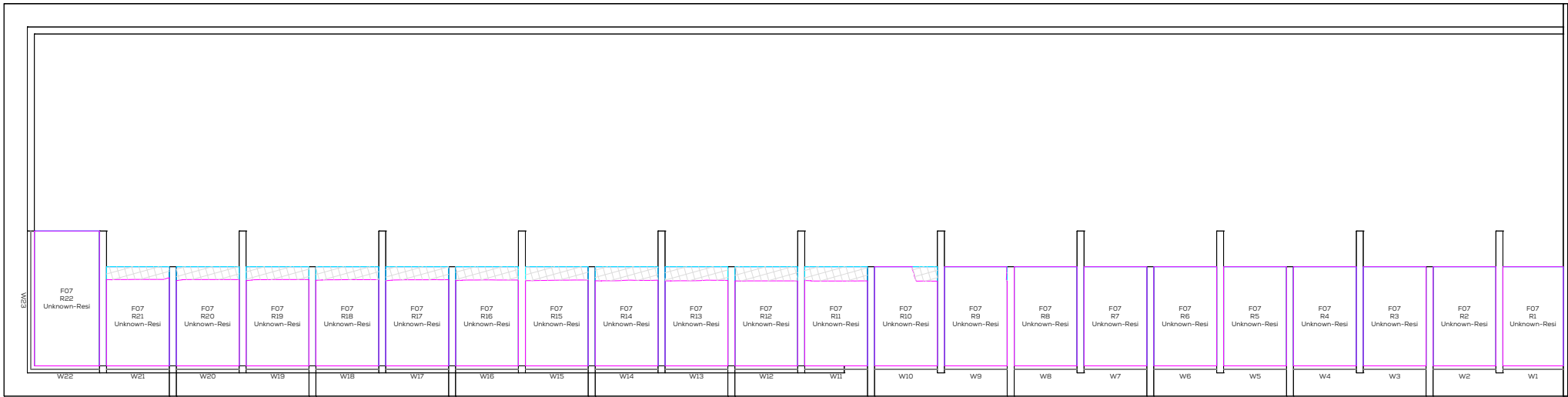
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
TIMBERWHARF
FIFTH AND SIXTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
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PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	18	-

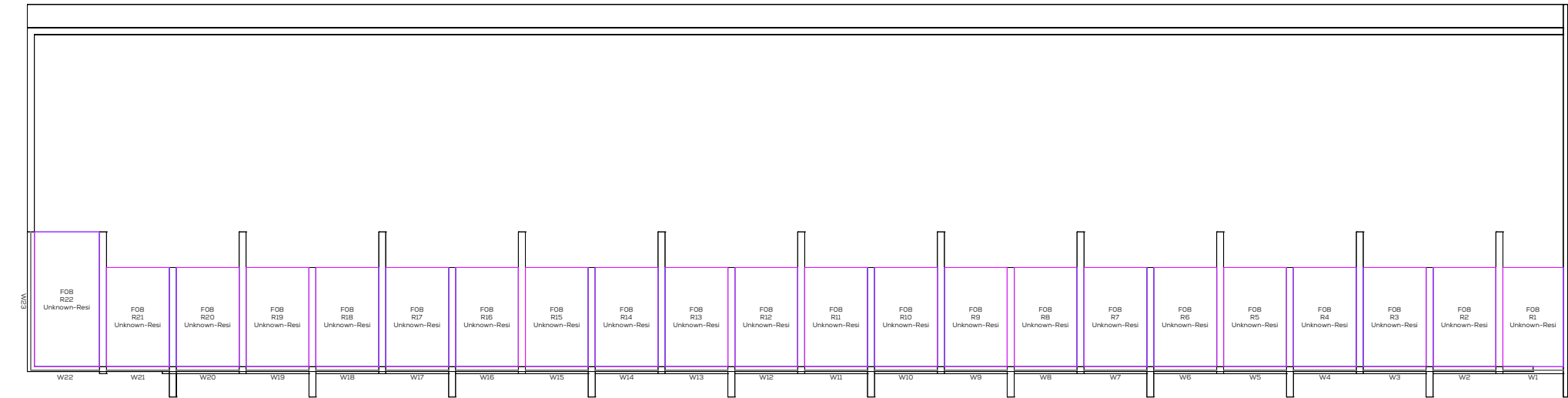


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 **SEVENTH FLOOR**
SCALE 1:250



 **EIGHTH FLOOR**
SCALE 1:250

SOURCES OF INFORMATION

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IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

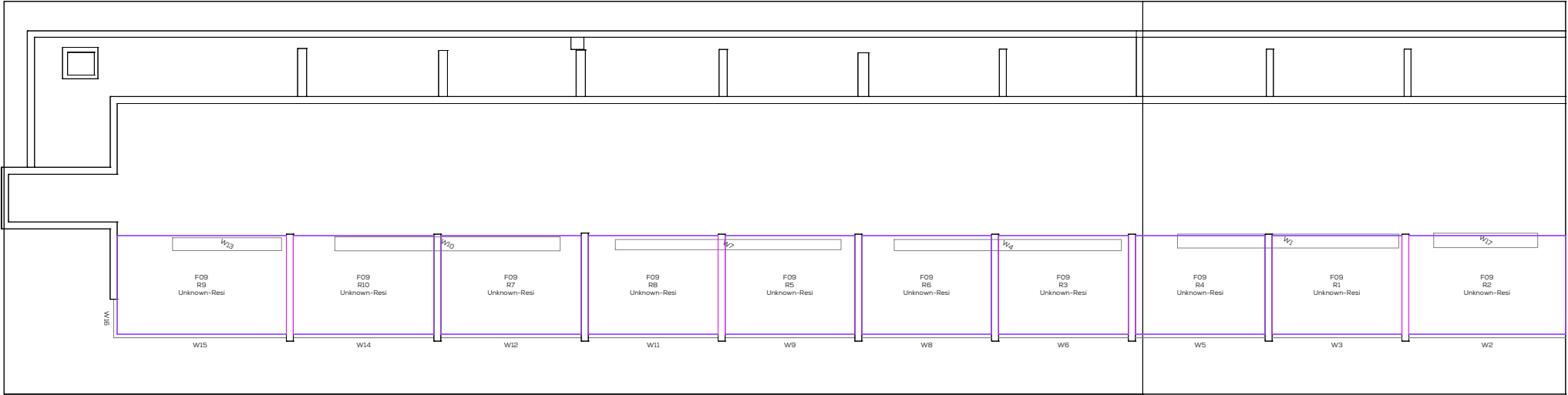
N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
TIMBERWHARF
SEVENTH AND EIGHTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	19	-


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NINTH FLOOR
SCALE 1:250

SOURCES OF INFORMATION

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- DAYLIGHT DISTRIBUTION CONTOURS
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:
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N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

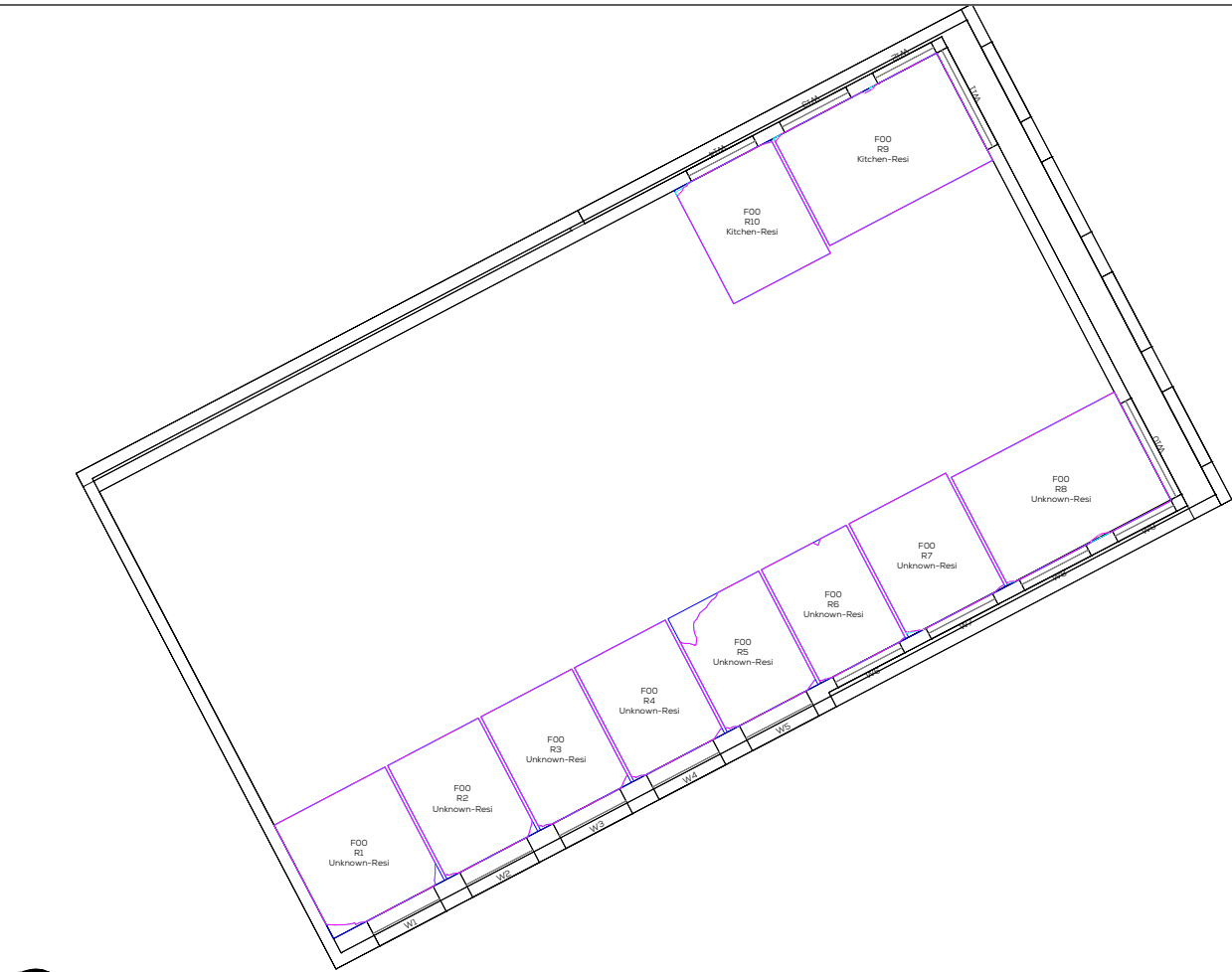
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
TIMBERWHARF
NINTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	20	-

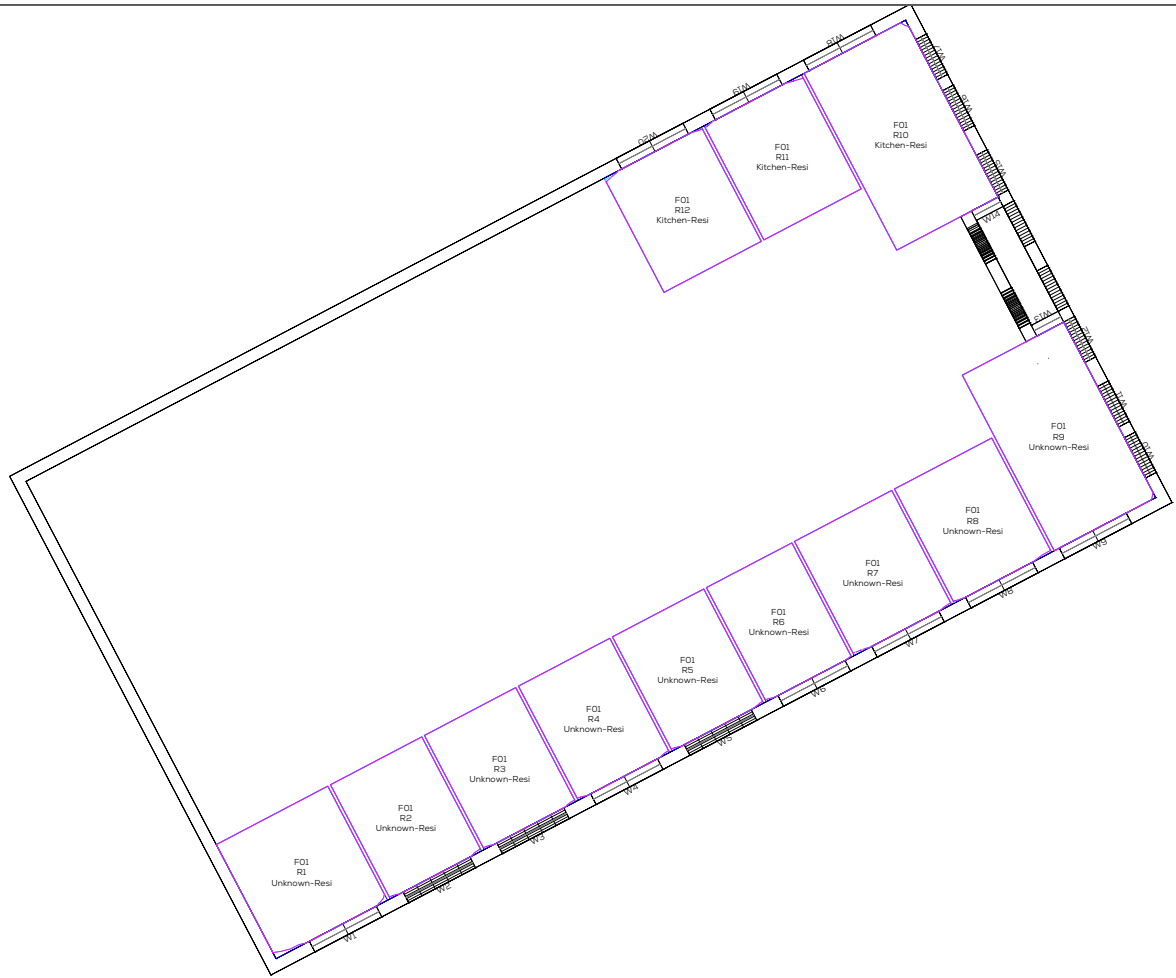


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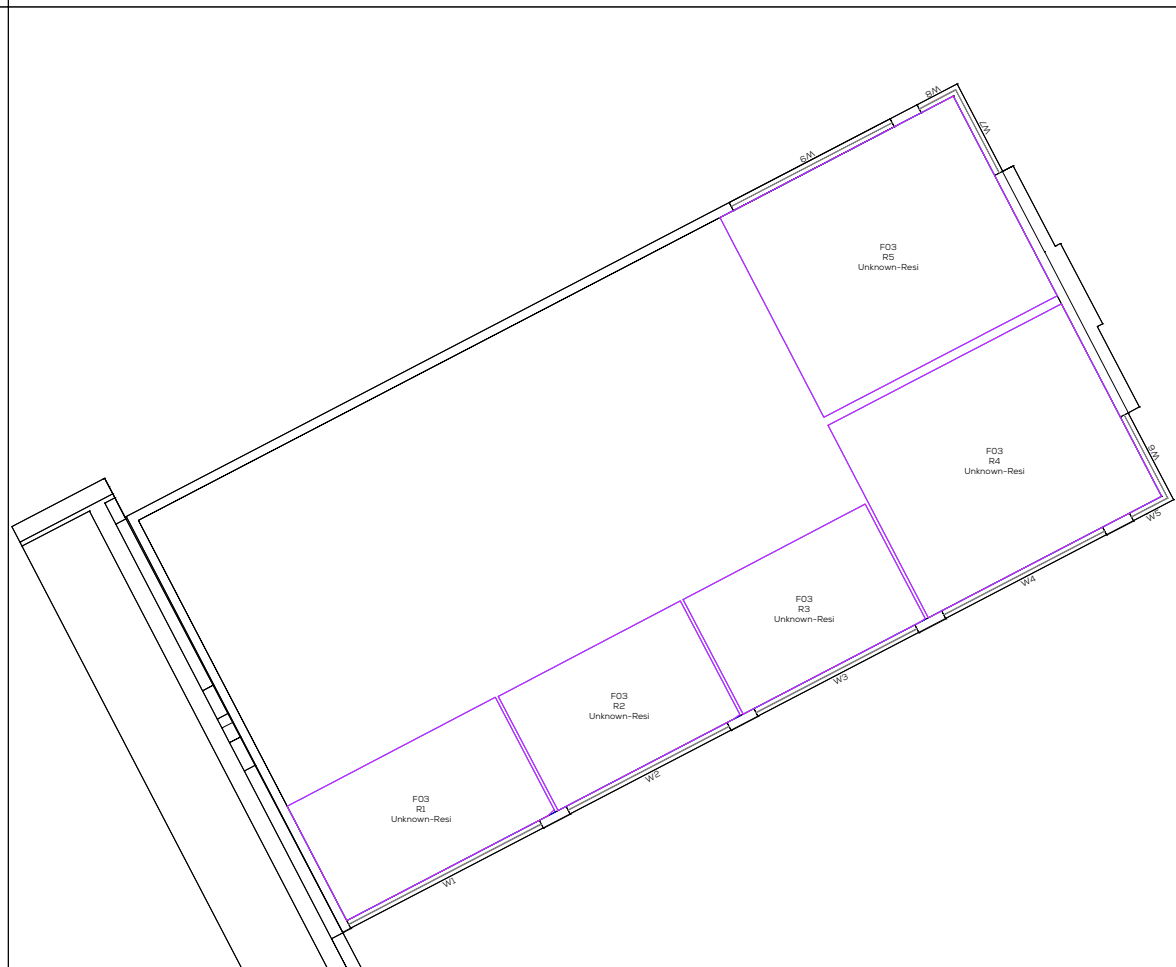
GROUND FLOOR
SCALE 1:250



FIRST FLOOR
SCALE 1:250



SECOND FLOOR
SCALE 1:250



THIRD FLOOR
SCALE 1:250

SOURCES OF INFORMATION

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- DAYLIGHT DISTRIBUTION CONTOURS
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, SAND WAREHOUSE
GROUND AND THIRD FLOOR

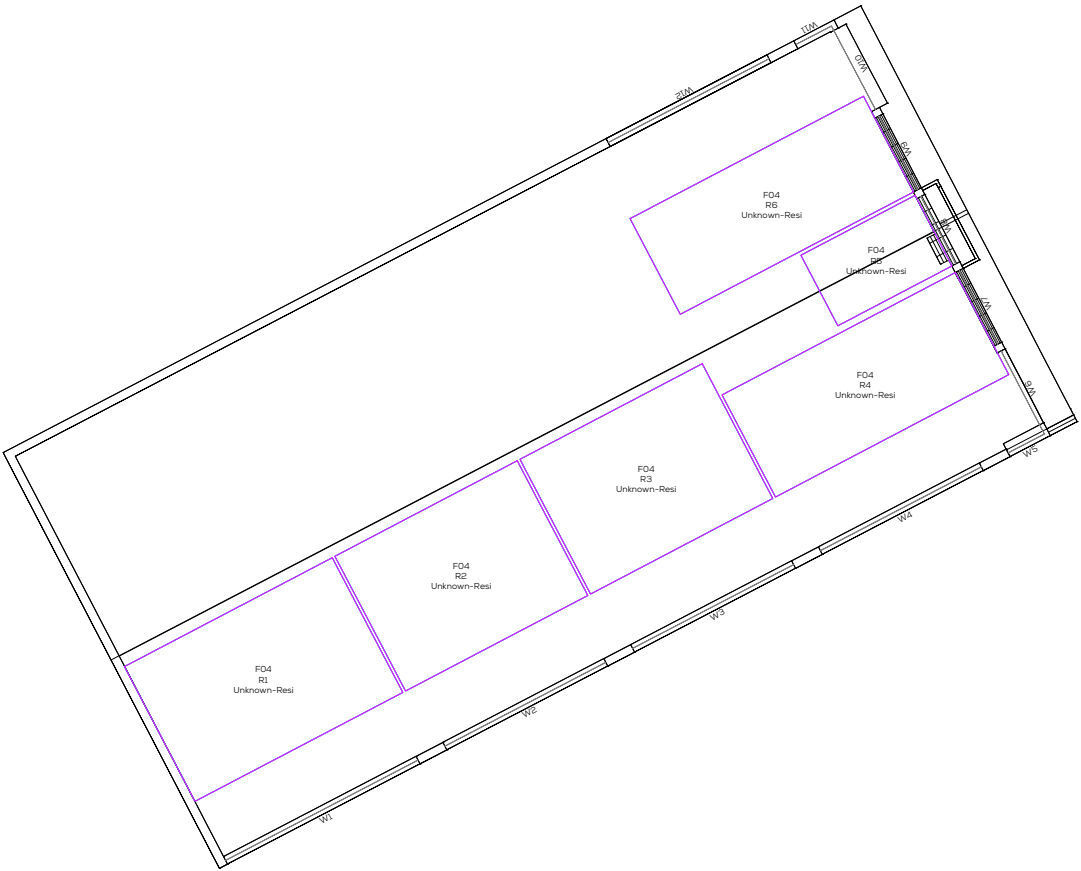
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SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	21	-



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 **FOURTH FLOOR**
SCALE 1:250



SOURCES OF INFORMATION

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:
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N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, SAND WAREHOUSE
FOURTH FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	22	-

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, BOILER WAREHOUSE
GROUND AND SECOND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:200@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	23	-

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www.gia.uk.com

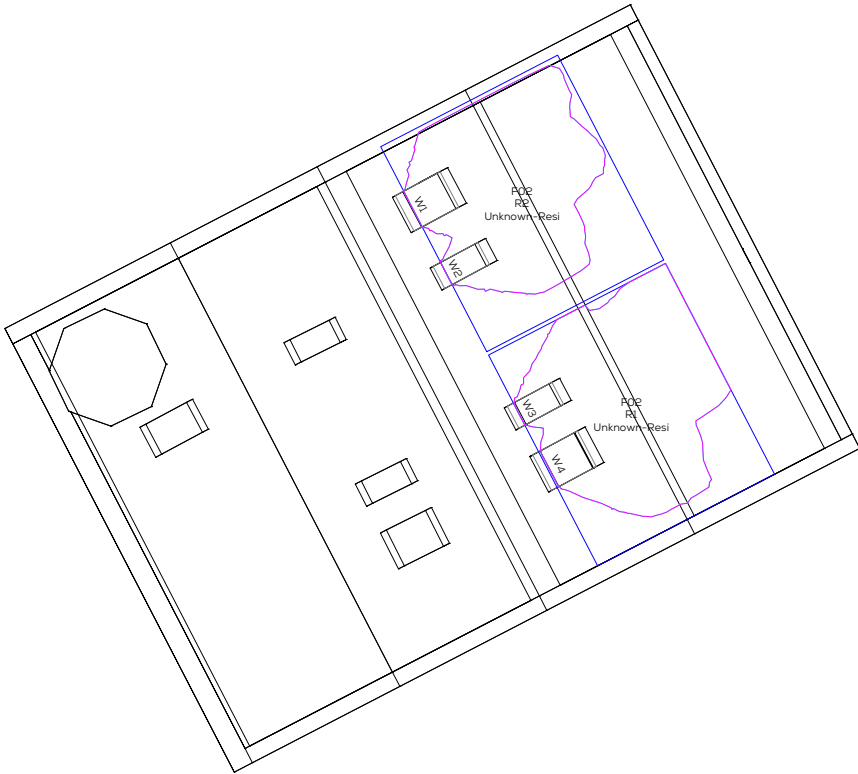
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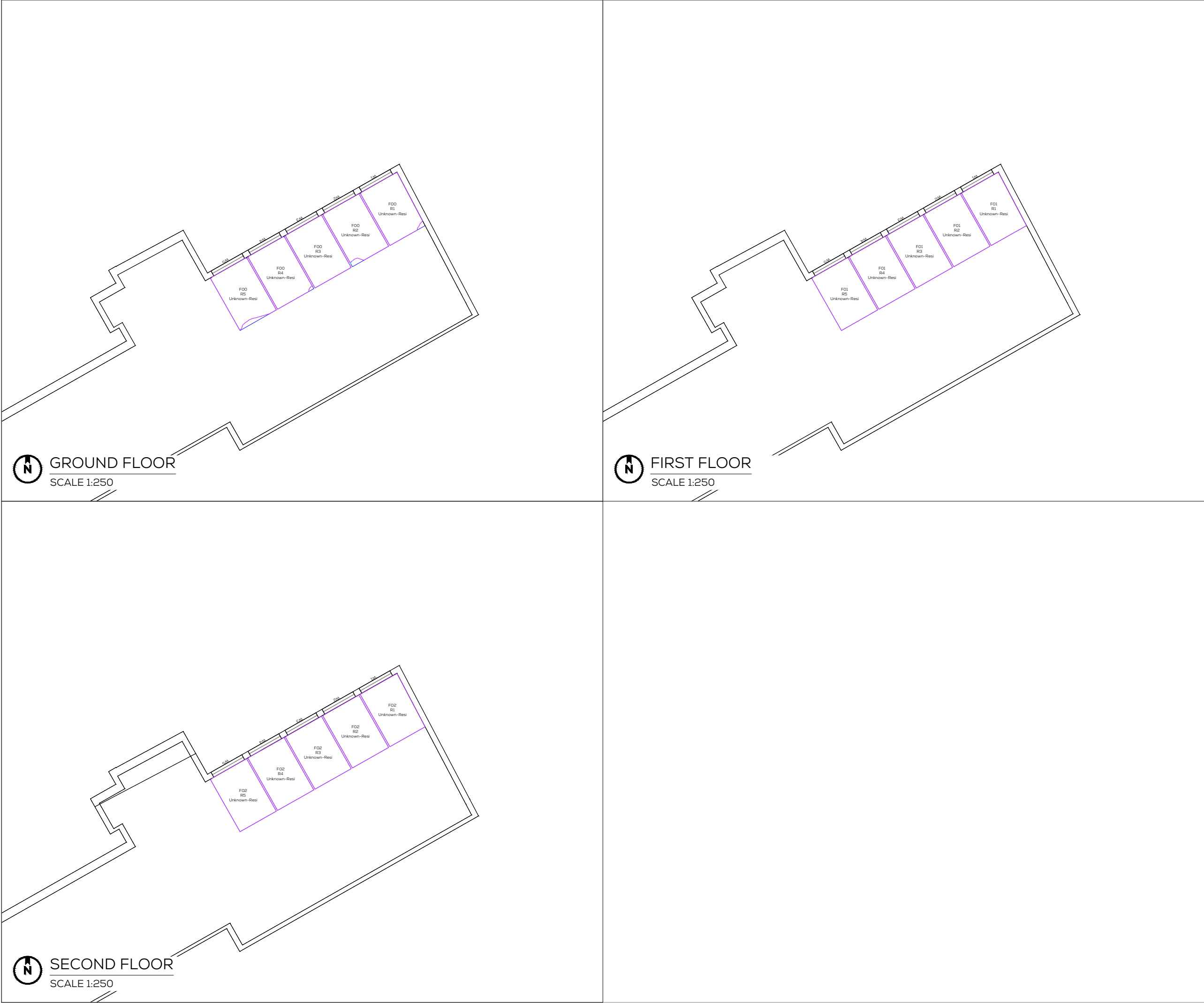
GROUND FLOOR
SCALE 1:200



FIRST FLOOR
SCALE 1:200



SECOND FLOOR
SCALE 1:200



SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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- DAYLIGHT DISTRIBUTION CONTOURS
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

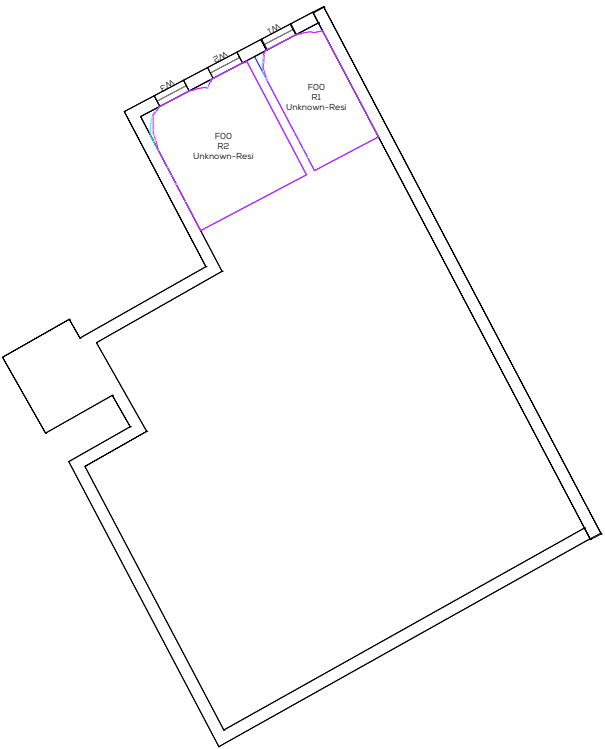
NOTES:
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N.B. DO NOT SCALE OFF THIS DRAWING

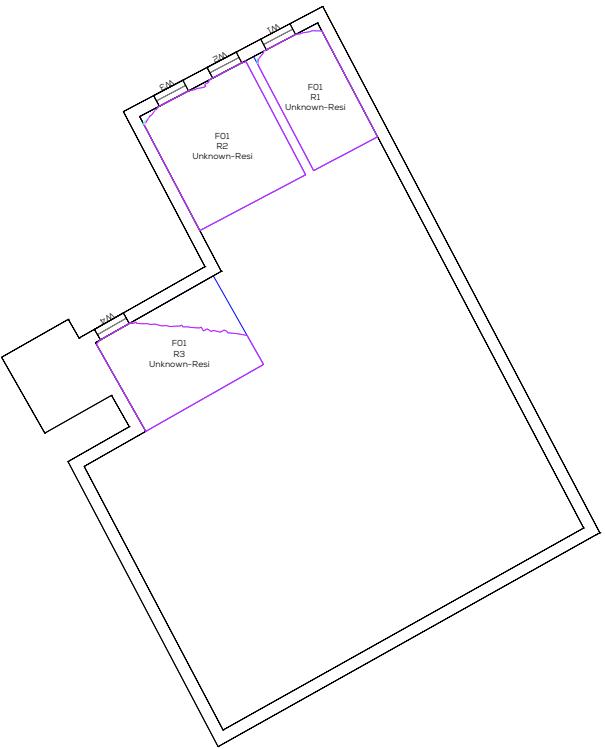
PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, FLINT WAREHOUSE
GROUND AND SECOND FLOOR

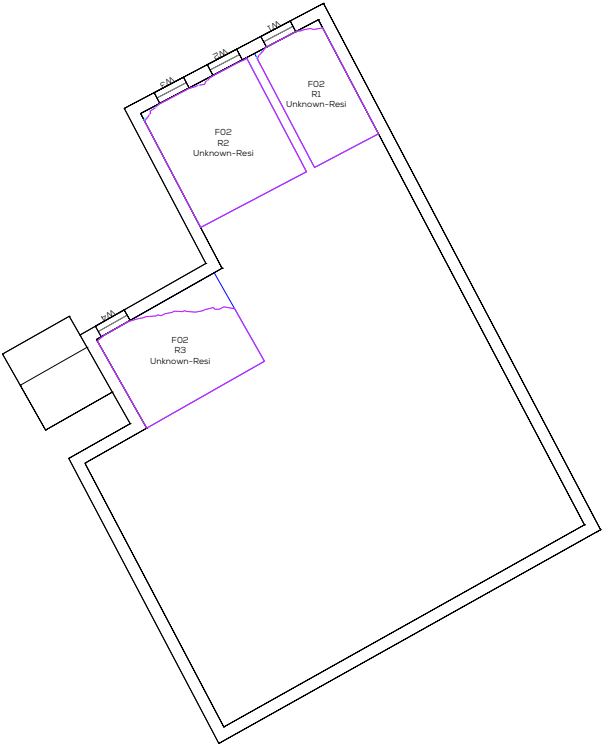
DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	24	-



 **GROUND FLOOR**
SCALE 1:250



 **FIRST FLOOR**
SCALE 1:250



 **SECOND FLOOR**
SCALE 1:250

SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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- DAYLIGHT DISTRIBUTION CONTOURS
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

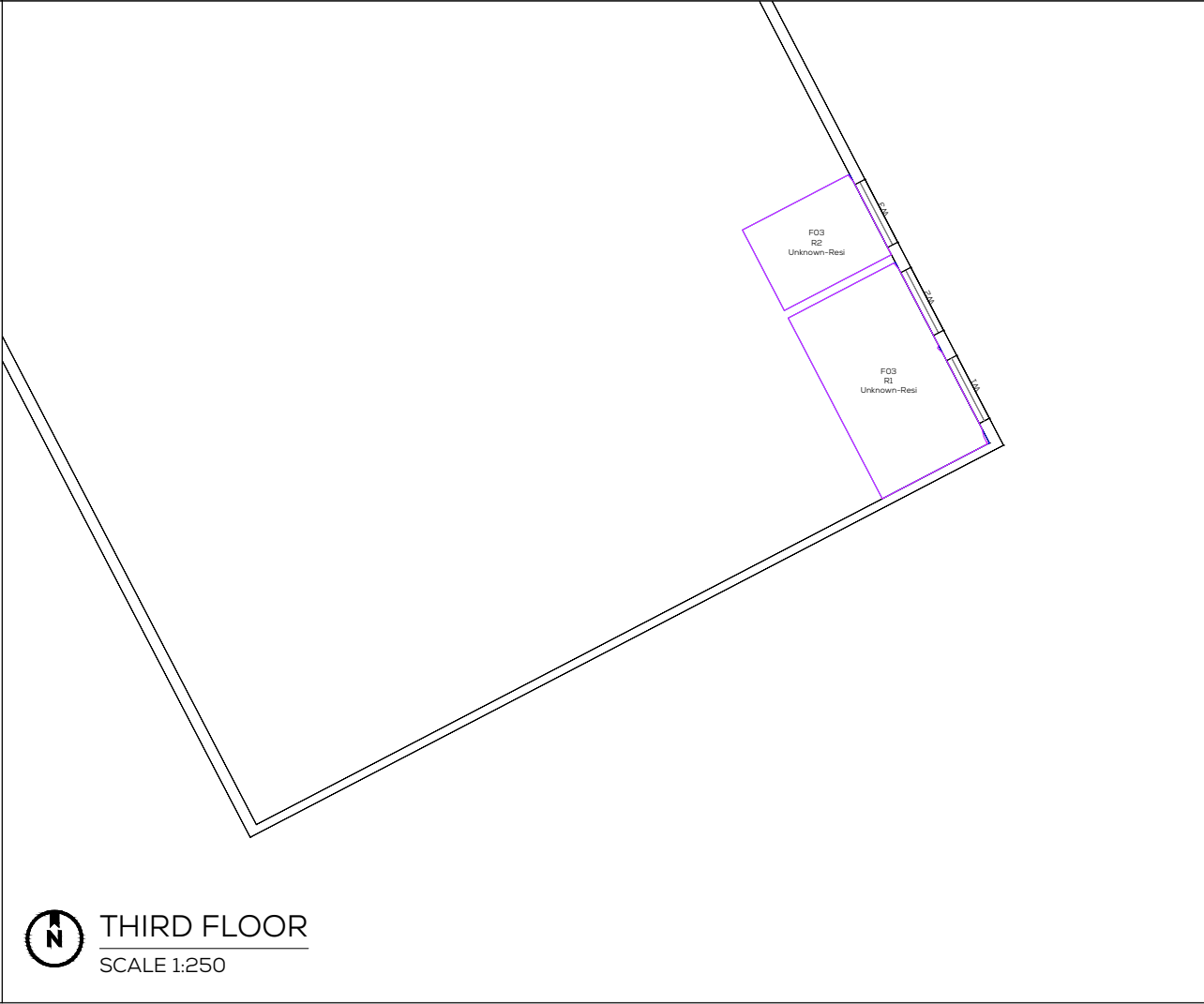
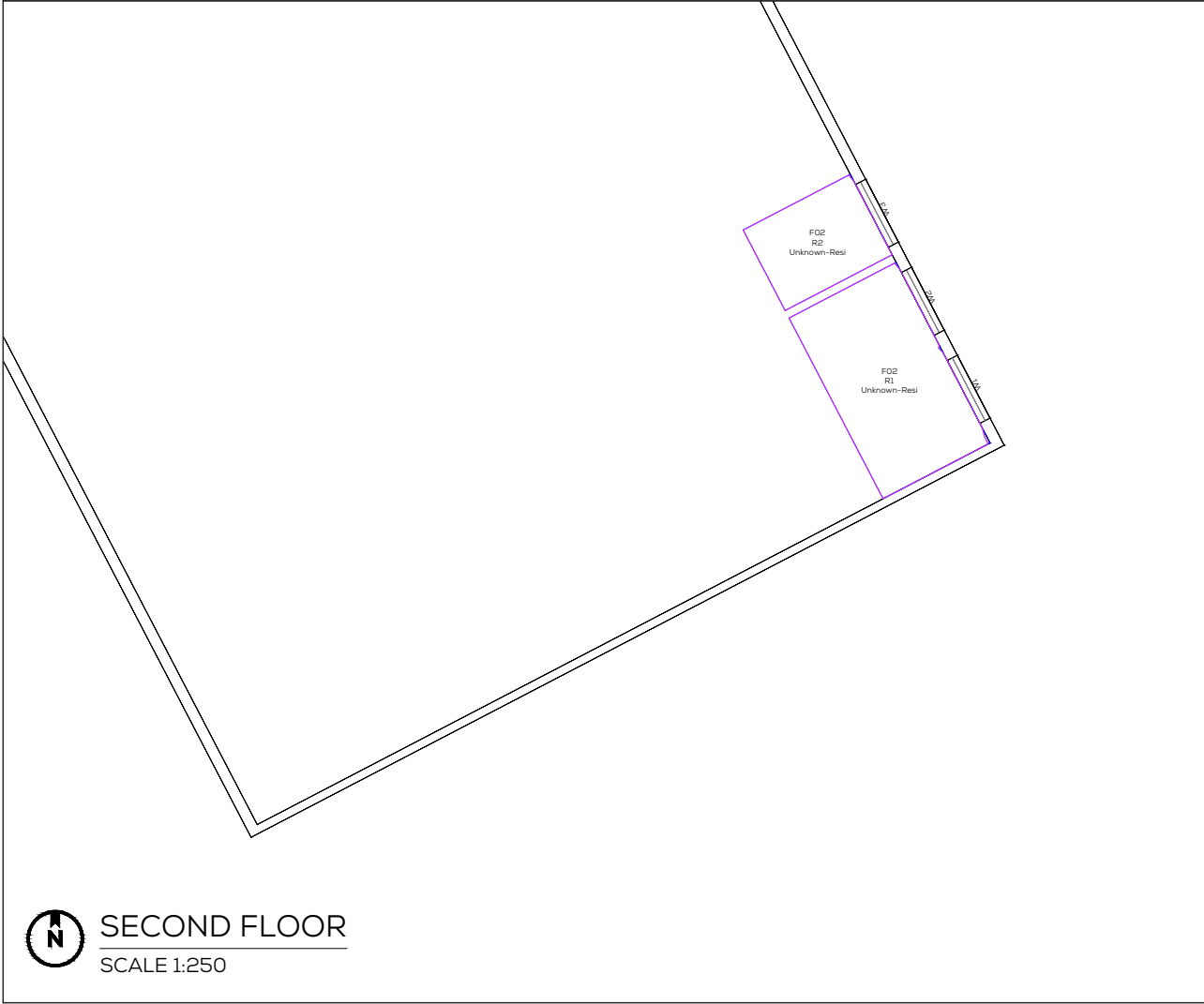
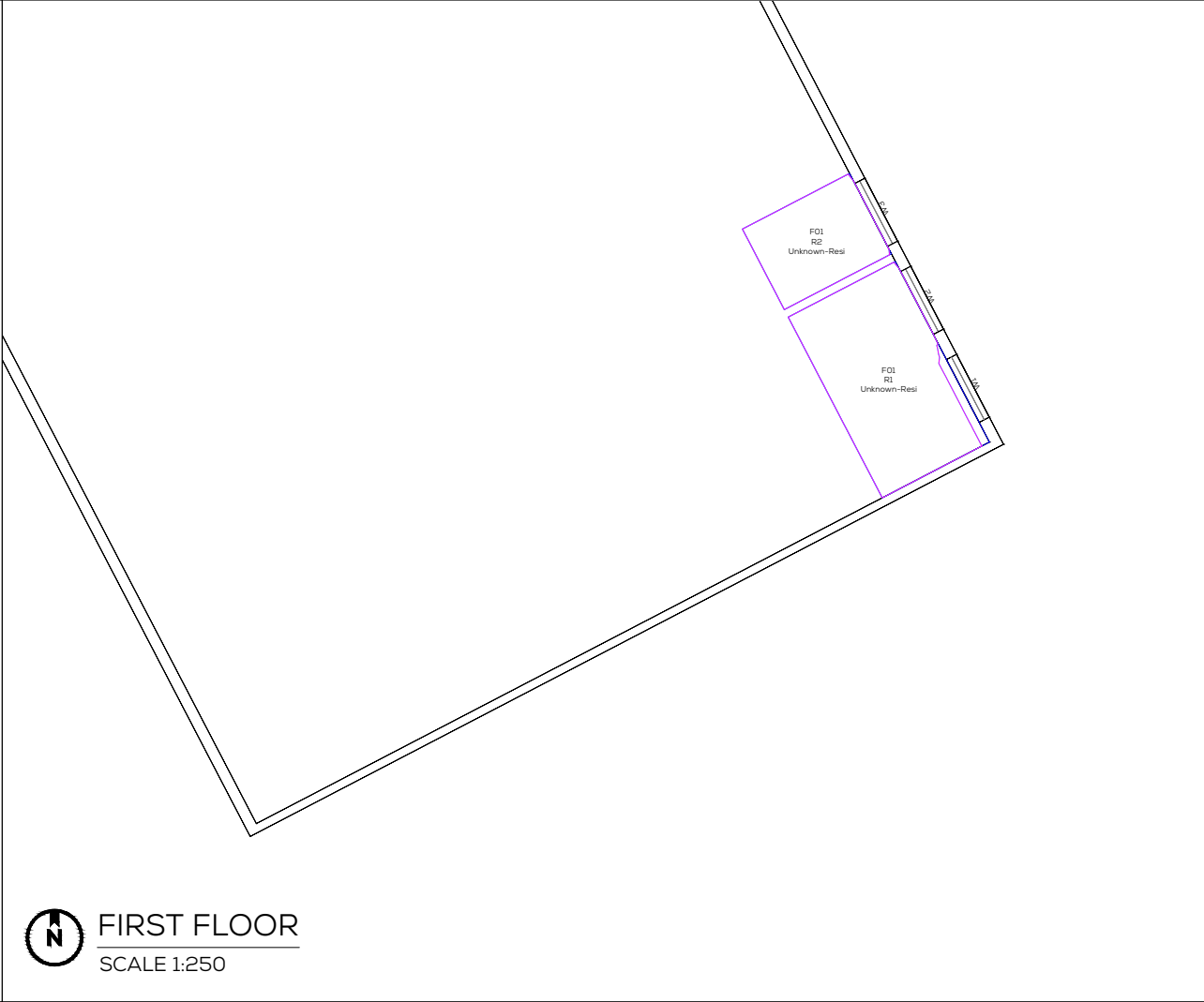
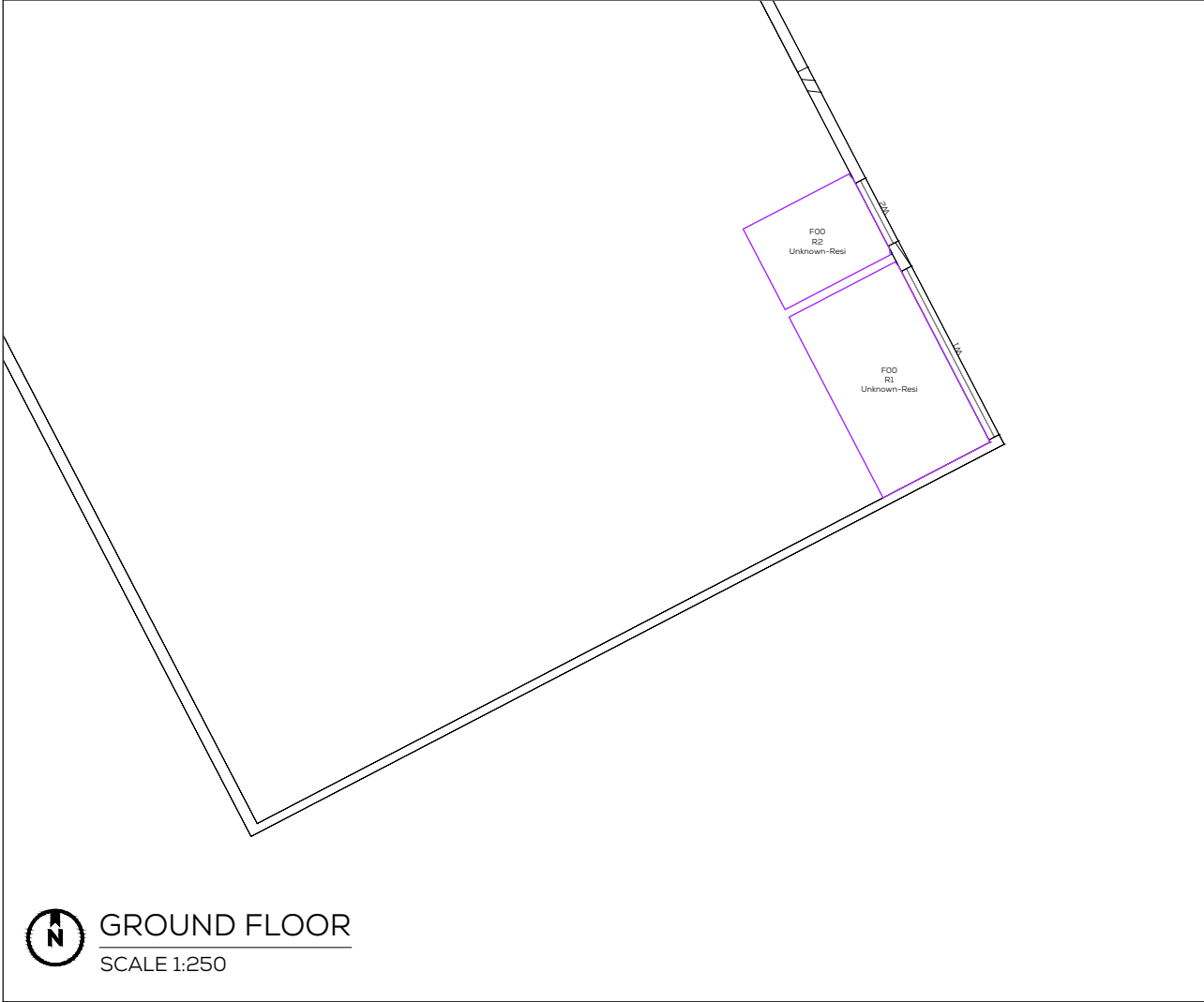
NOTES:
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N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, GRANITE WAREHOUSE
GROUND AND SECOND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	25	-



SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN. GIA TAKES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:
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PROJECT:
TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER

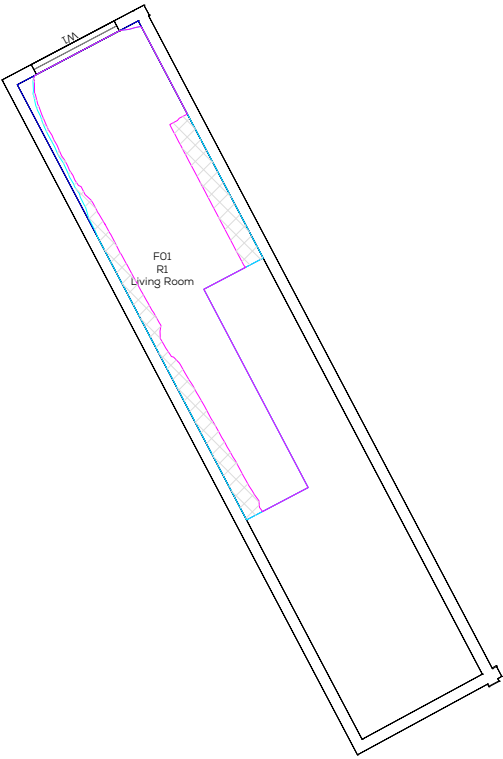
DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, EMERY WAREHOUSE
GROUND AND THIRD FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:250@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	26	-

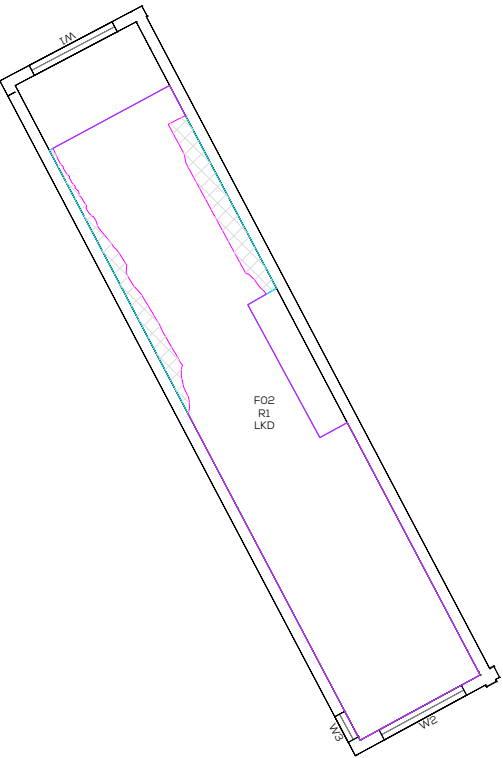
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L O N D O N • M A N C H E S T E R



 **GROUND FLOOR**
SCALE 1:200



 **FIRST FLOOR**
SCALE 1:200



 **SECOND FLOOR**
SCALE 1:200

SOURCES OF INFORMATION

IR02-110117-VERTEX
IR03-PLANNING PORTAL
IR09-170905-SHEDKM

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DAYLIGHT DISTRIBUTION CONTOURS
EXISTING CONTOUR
PROPOSED CONTOUR
HATCHED AREA SHOWS LIGHT LOST BETWEEN EXISTING & PROPOSED CONTOURS

NOTES:
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N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:
**TALBOT MILL,
44 ELLESMERE STREET
MANCHESTER**

DRAWING NAME:
DAYLIGHT DISTRIBUTION CONTOUR PLOTS
EXISTING v PROPOSED IR04
BRITANNIA MILLS, TALBOT MILL TOWNHOUSE
GROUND AND SECOND FLOOR

DWN BY	SCALE	CHK BY	STATUS	DATE
SP	1:200@A3	BS	-	SEP 17
PROJ No.	REL No.	IS No.	DWG No.	REV No.
0231	04	01	27	-


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L O N D O N • M A N C H E S T E R

VSC & ADF results for
mirror mass

Vertical Sky Component							Average Daylight Factor									
Room	Window	Room Use	Existing	Proposed	Loss	%	Pass / Fail	Glazed Area	ADF Existing	ADF Total	ADF Proposed	ADF Total	Loss	%	Pass / Fail	
TIMBERWHARF																
R1/F03	W1/F03	Unknown-Resi	3.1	3.3	-0.2	-6.5	PASS	5.6	0.7	0.7	0.7	0.7	0.0	0.0	PASS	
R2/F03	W2/F03	Unknown-Resi	1.8	2.0	-0.2	-11.1	PASS	5.8	0.3	0.3	0.4	0.4	-0.1	-33.3	PASS	
R3/F03	W3/F03	Unknown-Resi	1.3	1.6	-0.3	-23.1	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R4/F03	W4/F03	Unknown-Resi	1.3	1.7	-0.4	-30.8	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R5/F03	W5/F03	Unknown-Resi	1.3	1.8	-0.5	-38.5	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R6/F03	W6/F03	Unknown-Resi	1.5	1.9	-0.4	-26.7	PASS	5.8	0.1	0.1	0.2	0.2	-0.1	-100.0	PASS	
R7/F03	W7/F03	Unknown-Resi	1.8	2.0	-0.2	-11.1	PASS	5.8	0.4	0.4	0.5	0.5	-0.1	-25.0	PASS	
R8/F03	W8/F03	Unknown-Resi	1.2	1.4	-0.2	-16.7	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R9/F03	W9/F03	Unknown-Resi	0.7	1.0	-0.3	-42.9	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R10/F03	W10/F03	Unknown-Resi	0.5	0.8	-0.3	-60.0	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R11/F03	W11/F03	Unknown-Resi	0.2	0.4	-0.2	-100.0	PASS	5.8	0.2	0.2	0.1	0.1	0.1	50.0	FAIL	
R12/F03	W12/F03	Unknown-Resi	0.1	0.3	-0.2	-200.0	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R13/F03	W13/F03	Unknown-Resi	0.1	0.2	-0.1	-100.0	PASS	5.8	0.2	0.2	0.2	0.2	0.0	0.0	PASS	
R14/F03	W14/F03	Unknown-Resi	0.0	0.2	-0.2	0.0	PASS	5.8	0.0	0.0	0.1	0.1	-0.1	-100.0	PASS	
R15/F03	W15/F03	Unknown-Resi	0.3	0.2	0.1	33.3	FAIL	5.8	0.3	0.3	0.2	0.2	0.1	33.3	FAIL	
R16/F03	W16/F03	Unknown-Resi	0.0	0.1	-0.1	0.0	PASS	5.8	0.0	0.0	0.1	0.1	-0.1	-100.0	PASS	
R17/F03	W17/F03	Unknown-Resi	0.7	0.4	0.3	42.9	FAIL	5.8	0.4	0.4	0.3	0.3	0.1	25.0	FAIL	
R18/F03	W18/F03	Unknown-Resi	0.0	0.0	0.0	0.0	PASS	5.8	0.0	0.0	0.1	0.1	-0.1	-100.0	PASS	
R19/F03	W19/F03	Unknown-Resi	1.7	0.9	0.8	47.1	FAIL	5.8	0.7	0.7	0.5	0.5	0.2	28.6	FAIL	
R20/F03	W20/F03	Unknown-Resi	1.4	0.1	1.3	92.9	FAIL	5.8	0.6	0.6	0.1	0.1	0.5	83.3	FAIL	
R21/F03	W21/F03	Unknown-Resi	4.8	2.0	2.8	58.3	FAIL	5.8	1.1	1.1	0.7	0.7	0.4	36.4	FAIL	
R22/F03	W22/F03	Unknown-Resi	8.2	3.3	4.9	59.8	FAIL	6.4	1.3	1.3	0.8	0.8	0.7	10.6	PASS	
R22/F03	W23/F03	Unknown-Resi	27.3	26.2	1.1	4.0	PASS	12.8	5.3	6.6	5.1	5.9	0.7	10.6	PASS	
R1/F04	W1/F04	Unknown-Resi	5.6	6.0	-0.4	-7.1	PASS	5.6	0.9	0.9	0.9	0.9	0.0	0.0	PASS	
R2/F04	W2/F04	Unknown-Resi	4.6	5.1	-0.5	-10.9	PASS	5.8	0.6	0.6	0.6	0.6	0.0	0.0	PASS	
R3/F04	W3/F04	Unknown-Resi	4.0	4.7	-0.7	-17.5	PASS	5.8	0.5	0.5	0.5	0.5	0.0	0.0	PASS	
R4/F04	W4/F04	Unknown-Resi	4.1	4.9	-0.8	-19.5	PASS	5.8	0.5	0.5	0.6	0.6	-0.1	-20.0	PASS	
R5/F04	W5/F04	Unknown-Resi	3.8	5.0	-1.2	-31.6	PASS	5.8	0.5	0.5	0.6	0.6	-0.1	-20.0	PASS	
R6/F04	W6/F04	Unknown-Resi	4.0	5.1	-1.1	-27.5	PASS	5.8	0.6	0.6	0.7	0.7	-0.1	-16.7	PASS	
R7/F04	W7/F04	Unknown-Resi	3.7	4.9	-1.2	-32.4	PASS	5.8	0.7	0.7	0.8	0.8	-0.1	-14.3	PASS	
R8/F04	W8/F04	Unknown-Resi	2.8	4.0	-1.2	-42.9	PASS	5.8	0.6	0.6	0.6	0.6	0.0	0.0	PASS	
R9/F04	W9/F04	Unknown-Resi	1.5	3.0	-1.5	-100.0	PASS	5.8	0.4	0.4	0.4	0.4	0.0	0.0	PASS	
R10/F04	W10/F04	Unknown-Resi	1.1	2.5	-1.4	-127.3	PASS	5.8	0.3	0.3	0.3	0.3	0.0	0.0	PASS	
R11/F04	W11/F04	Unknown-Resi	0.3	1.8	-1.5	-500.0	PASS	5.8	0.2	0.2	0.2	0.2	0.0	0.0	PASS	
R12/F04	W12/F04	Unknown-Resi	0.4	1.6	-1.2	-300.0	PASS	5.8	0.1	0.1	0.2	0.2	-0.1	-100.0	PASS	
R13/F04	W13/F04	Unknown-Resi	0.2	1.2	-1.0	-500.0	PASS	5.8	0.2	0.2	0.2	0.2	0.0	0.0	PASS	
R14/F04	W14/F04	Unknown-Resi	0.2	1.2	-1.0	-500.0	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R15/F04	W15/F04	Unknown-Resi	0.4	1.1	-0.7	-175.0	PASS	5.8	0.3	0.3	0.3	0.3	0.0	0.0	PASS	
R16/F04	W16/F04	Unknown-Resi	0.1	1.0	-0.9	-900.0	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R17/F04	W17/F04	Unknown-Resi	0.8	1.4	-0.6	-75.0	PASS	5.8	0.5	0.5	0.4	0.4	0.1	20.0	PASS	
R18/F04	W18/F04	Unknown-Resi	0.1	1.0	-0.9	-900.0	PASS	5.8	0.1	0.1	0.1	0.1	0.0	0.0	PASS	
R19/F04	W19/F04	Unknown-Resi	1.9	2.0	-0.1	-5.3	PASS	5.8	0.7	0.7	0.5	0.5	0.2	28.6	FAIL	
R20/F04	W20/F04	Unknown-Resi	1.6	1.3	0.3	18.8	PASS	5.8	0.6	0.6	0.1	0.1	0.5	83.3	FAIL	
R21/F04	W21/F04	Unknown-Resi	5.3	3.3	2.0	37.7	FAIL	5.8	1.2	1.2	0.8	0.8	0.4	33.3	FAIL	
R22/F04	W22/F04	Unknown-Resi	8.8	4.9	3.9	44.3	FAIL	6.4	1.4	1.4	0.8	0.8	0.6	9.0	PASS	
R22/F04	W23/F04	Unknown-Resi	27.9	26.8	1.1	3.9	PASS	12.8	5.4	6.7	5.2	6.1	0.6	9.0	PASS	
R1/F05	W1/F05	Unknown-Resi	9.4	9.8	-0.4	-4.3	PASS	5.6	1.3	1.3	1.3	1.3	0.0	0.0	PASS	
R2/F05	W2/F05	Unknown-Resi	8.7	9.2	-0.5	-5.7	PASS	5.8	1.1	1.1	1.2	1.2	-0.1	-9.1	PASS	
R3/F05	W3/F05	Unknown-Resi	8.2	9.1	-0.9	-11.0	PASS	5.8	1.0	1.0	1.2	1.2	-0.2	-20.0	PASS	
R4/F05	W4/F05	Unknown-Resi	8.2	9.3	-1.1	-13.4	PASS	5.8	1.1	1.1	1.2	1.2	-0.1	-9.1	PASS	
R5/F05	W5/F05	Unknown-Resi	8.1	9.5	-1.4	-17.3	PASS	5.8	1.1	1.1	1.3	1.3	-0.2	-18.2	PASS	
R6/F05	W6/F05	Unknown-Resi	8.2	9.7	-1.5	-18.3	PASS	5.8	1.2	1.2	1.3	1.3	-0.1	-8.3	PASS	
R7/F05	W7/F05	Unknown-Resi	7.7	9.3	-1.6	-20.8	PASS	5.8	1.2	1.2	1.3	1.3	-0.1	-8.3	PASS	
R8/F05	W8/F05	Unknown-Resi	6.3	8.2	-1.9	-30.2	PASS	5.8	1.0	1.0	1.1	1.1	-0.1	-10.0	PASS	
R9/F05	W9/F05	Unknown-Resi	4.6	6.7	-2.1	-45.7	PASS	5.8	0.7	0.7	0.9	0.9	-0.2	-28.6	PASS	
R10/F05	W10/F05	Unknown-Resi	4.0	6.0	-2.0	-50.0	PASS	5.8	0.6	0.6	0.8	0.8	-0.2	-33.3	PASS	
R11/F05	W11/F05	Unknown-Resi	3.2	5.0	-1.8	-56.3	PASS	5.8	0.3	0.3	0.6	0.6	-0.3	-100.0	PASS	
R12/F05	W12/F05	Unknown-Resi	3.2	4.7	-1.5	-46.9	PASS	5.8	0.3	0.3	0.6	0.6	-0.3	-100.0	PASS	
R13/F05	W13/F05	Unknown-Resi	3.0	4.1	-1.1	-36.7	PASS	5.8	0.3	0.3	0.3	0.3	0.0	0.0	PASS	
R14/F05	W14/F05	Unknown-Resi	3.0	4.2	-1.2	-40.0	PASS	5.8	0.2	0.2	0.4	0.4	-0.2	-100.0	PASS	
R15/F05	W15/F05	Unknown-Resi	3.2	4.0	-0.8	-25.0	PASS	5.8	0.4	0.4	0.3	0.3	0.1	25.0	FAIL	
R16/F05	W16/F05	Unknown-Resi	3.0	4.0	-1.0	-33.3	PASS	5.8	0.2	0.2	0.3	0.3	-0.1	-50.0	PASS	
R17/F05	W17/F05	Unknown-Resi	3.6	4.3	-0.7	-19.4	PASS	5.8	0.5	0.5	0.5	0.5	0.0	0.0	PASS	
R18/F05	W18/F05	Unknown-Resi	3.0	3.9	-0.9	-30.0	PASS	5.8	0.2	0.2	0.3	0.3	-0.1	-50.0	PASS	
R19/F05	W19/F05	Unknown-Resi	4.7	4.8	-0.1	-2.1	PASS	5.8	0.8	0.8	0.6	0.6	0.2	25.0	FAIL	
R20/F05	W20/F05	Unknown-Resi	4.5	4.3	0.2	4.4	PASS	5.8	0.7	0.7	0.4	0.4	0.3	42.9	FAIL	
R21/F05	W21/F05	Unknown-Resi	15.2	13.7	1.5	9.9	PASS	5.8	2.6	2.6	2.5	2.5	0.1	3.8	PASS	
R22/F05	W22/F05	Unknown-Resi	20.4	17.2	3.2	15.7	PASS	6.4	2.6	2.6	2.4	2.4				

Vertical Sky Component														
Room	Window	Room Use	Existing	Proposed	Loss	%	Pass/ Fail	Glazed Area	Average Daylight Factor					
									Existing ADF	Total	Proposed ADF	Total	Loss	%
R22/F05	W23/F05	Unknown-Resi	37.6	36.4	1.2	3.2	PASS	12.8	8.3	11.0	8.1	10.5	0.5	4.5
R1/F06	W1/F06	Unknown-Resi	14.1	14.5	-0.4	-2.8	PASS	5.6	1.8	1.8	1.9	1.9	-0.1	-5.6
R2/F06	W2/F06	Unknown-Resi	13.7	14.4	-0.7	-5.1	PASS	5.8	1.8	1.8	1.9	1.9	-0.1	-5.6
R3/F06	W3/F06	Unknown-Resi	13.1	14.3	-1.2	-9.2	PASS	5.8	1.7	1.7	1.9	1.9	-0.2	-11.8
R4/F06	W4/F06	Unknown-Resi	13.3	14.7	-1.4	-10.5	PASS	5.8	1.8	1.8	1.9	1.9	-0.1	-5.6
R5/F06	W5/F06	Unknown-Resi	13.3	15.1	-1.8	-13.5	PASS	5.8	1.7	1.7	2.0	2.0	-0.3	-17.6
R6/F06	W6/F06	Unknown-Resi	13.2	15.1	-1.9	-14.4	PASS	5.8	1.7	1.7	2.0	2.0	-0.3	-17.6
R7/F06	W7/F06	Unknown-Resi	12.4	14.4	-2.0	-16.1	PASS	5.8	1.6	1.6	1.8	1.8	-0.2	-12.5
R8/F06	W8/F06	Unknown-Resi	10.5	13.1	-2.6	-24.8	PASS	5.8	1.4	1.4	1.7	1.7	-0.3	-21.4
R9/F06	W9/F06	Unknown-Resi	8.6	11.5	-2.9	-33.7	PASS	5.8	1.0	1.0	1.5	1.5	-0.5	-50.0
R10/F06	W10/F06	Unknown-Resi	7.8	10.4	-2.6	-33.3	PASS	5.8	0.8	0.8	1.3	1.3	-0.5	-62.5
R11/F06	W11/F06	Unknown-Resi	6.9	9.2	-2.3	-33.3	PASS	5.8	0.4	0.4	1.1	1.1	-0.7	-175.0
R12/F06	W12/F06	Unknown-Resi	6.9	8.8	-1.9	-27.5	PASS	5.8	0.5	0.5	1.0	1.0	-0.5	-100.0
R13/F06	W13/F06	Unknown-Resi	6.7	8.1	-1.4	-20.9	PASS	5.8	0.3	0.3	0.8	0.8	-0.5	-166.7
R14/F06	W14/F06	Unknown-Resi	6.7	8.1	-1.4	-20.9	PASS	5.8	0.4	0.4	0.8	0.8	-0.4	-100.0
R15/F06	W15/F06	Unknown-Resi	6.9	7.9	-1.0	-14.5	PASS	5.8	0.4	0.4	0.8	0.8	-0.4	-100.0
R16/F06	W16/F06	Unknown-Resi	6.7	7.9	-1.2	-17.9	PASS	5.8	0.3	0.3	0.8	0.8	-0.5	-166.7
R17/F06	W17/F06	Unknown-Resi	7.3	8.2	-0.9	-12.3	PASS	5.8	0.6	0.6	0.8	0.8	-0.2	-33.3
R18/F06	W18/F06	Unknown-Resi	6.8	7.8	-1.0	-14.7	PASS	5.8	0.3	0.3	0.7	0.7	-0.4	-133.3
R19/F06	W19/F06	Unknown-Resi	8.2	8.7	-0.5	-6.1	PASS	5.8	0.9	0.9	1.0	1.0	-0.1	-11.1
R20/F06	W20/F06	Unknown-Resi	8.2	8.3	-0.1	-1.2	PASS	5.8	0.8	0.8	0.8	0.8	0.0	0.0
R21/F06	W21/F06	Unknown-Resi	11.0	10.1	0.9	8.2	PASS	5.8	1.4	1.4	1.2	1.2	0.2	14.3
R22/F06	W22/F06	Unknown-Resi	14.4	12.2	2.2	15.3	PASS	6.4	1.5		1.3			
R22/F06	W23/F06	Unknown-Resi	28.7	28.1	0.6	2.1	PASS	12.8	5.5	7.0	5.4	6.7	0.3	4.3
R1/F07	W1/F07	Unknown-Resi	26.5	26.9	-0.4	-1.5	PASS	5.6	3.6	3.6	3.7	3.7	-0.1	-2.8
R2/F07	W2/F07	Unknown-Resi	26.3	26.9	-0.6	-2.3	PASS	5.8	3.7	3.7	3.8	3.8	-0.1	-2.7
R3/F07	W3/F07	Unknown-Resi	26.1	27.2	-1.1	-4.2	PASS	5.8	3.7	3.7	3.8	3.8	-0.1	-2.7
R4/F07	W4/F07	Unknown-Resi	26.3	27.6	-1.3	-4.9	PASS	5.8	3.7	3.7	3.8	3.8	-0.1	-2.7
R5/F07	W5/F07	Unknown-Resi	26.1	27.8	-1.7	-6.5	PASS	5.8	3.7	3.7	3.8	3.8	-0.1	-2.7
R6/F07	W6/F07	Unknown-Resi	25.6	27.6	-2.0	-7.8	PASS	5.8	3.6	3.6	3.8	3.8	-0.2	-5.6
R7/F07	W7/F07	Unknown-Resi	24.6	26.8	-2.2	-8.9	PASS	5.8	3.5	3.5	3.7	3.7	-0.2	-5.7
R8/F07	W8/F07	Unknown-Resi	22.7	25.8	-3.1	-13.7	PASS	5.8	3.4	3.4	3.7	3.7	-0.3	-8.8
R9/F07	W9/F07	Unknown-Resi	20.8	24.4	-3.6	-17.3	PASS	5.8	3.2	3.2	3.5	3.5	-0.3	-9.4
R10/F07	W10/F07	Unknown-Resi	20.1	23.1	-3.0	-14.9	PASS	5.8	3.1	3.1	3.4	3.4	-0.3	-9.7
R11/F07	W11/F07	Unknown-Resi	19.3	21.8	-2.5	-13.0	PASS	5.8	3.0	3.0	3.3	3.3	-0.3	-10.0
R12/F07	W12/F07	Unknown-Resi	19.3	21.3	-2.0	-10.4	PASS	5.8	3.0	3.0	3.2	3.2	-0.2	-6.7
R13/F07	W13/F07	Unknown-Resi	19.0	20.7	-1.7	-8.9	PASS	5.8	3.0	3.0	3.2	3.2	-0.2	-6.7
R14/F07	W14/F07	Unknown-Resi	19.1	20.6	-1.5	-7.9	PASS	5.8	3.0	3.0	3.2	3.2	-0.2	-6.7
R15/F07	W15/F07	Unknown-Resi	19.2	20.4	-1.2	-6.3	PASS	5.8	3.0	3.0	3.1	3.1	-0.1	-3.3
R16/F07	W16/F07	Unknown-Resi	19.0	20.4	-1.4	-7.4	PASS	5.8	3.0	3.0	3.1	3.1	-0.1	-3.3
R17/F07	W17/F07	Unknown-Resi	19.5	20.7	-1.2	-6.2	PASS	5.8	3.1	3.1	3.2	3.2	-0.1	-3.2
R18/F07	W18/F07	Unknown-Resi	19.2	20.4	-1.2	-6.3	PASS	5.8	3.0	3.0	3.1	3.1	-0.1	-3.3
R19/F07	W19/F07	Unknown-Resi	20.4	21.1	-0.7	-3.4	PASS	5.8	3.1	3.1	3.2	3.2	-0.1	-3.2
R20/F07	W20/F07	Unknown-Resi	20.5	20.9	-0.4	-2.0	PASS	5.8	3.1	3.1	3.2	3.2	-0.1	-3.2
R21/F07	W21/F07	Unknown-Resi	22.9	22.6	0.3	1.3	PASS	5.8	3.4	3.4	3.4	3.4	0.0	0.0
R22/F07	W22/F07	Unknown-Resi	27.5	26.4	1.1	4.0	PASS	6.4	3.2		3.2			
R22/F07	W23/F07	Unknown-Resi	38.2	37.8	0.4	1.0	PASS	12.8	8.5	11.7	8.4	11.5	0.2	1.7
R1/F08	W1/F08	Unknown-Resi	24.9	25.4	-0.5	-2.0	PASS	5.6	3.0	3.0	3.1	3.1	-0.1	-3.3
R2/F08	W2/F08	Unknown-Resi	25.3	25.9	-0.6	-2.4	PASS	5.8	3.1	3.1	3.1	3.1	0.0	0.0
R3/F08	W3/F08	Unknown-Resi	25.3	26.1	-0.8	-3.2	PASS	5.8	3.1	3.1	3.2	3.2	-0.1	-3.2
R4/F08	W4/F08	Unknown-Resi	25.1	26.0	-0.9	-3.6	PASS	5.8	3.1	3.1	3.2	3.2	-0.1	-3.2
R5/F08	W5/F08	Unknown-Resi	24.5	25.8	-1.3	-5.3	PASS	5.8	3.0	3.0	3.1	3.1	-0.1	-3.3
R6/F08	W6/F08	Unknown-Resi	24.0	25.5	-1.5	-6.3	PASS	5.8	3.0	3.0	3.1	3.1	-0.1	-3.3
R7/F08	W7/F08	Unknown-Resi	23.1	25.0	-1.9	-8.2	PASS	5.8	2.9	2.9	3.1	3.1	-0.2	-6.9
R8/F08	W8/F08	Unknown-Resi	21.8	24.3	-2.5	-11.5	PASS	5.8	2.8	2.8	3.0	3.0	-0.2	-7.1
R9/F08	W9/F08	Unknown-Resi	20.5	23.3	-2.8	-13.7	PASS	5.8	2.7	2.7	2.9	2.9	-0.2	-7.4
R10/F08	W10/F08	Unknown-Resi	19.9	22.3	-2.4	-12.1	PASS	5.8	2.6	2.6	2.8	2.8	-0.2	-7.7
R11/F08	W11/F08	Unknown-Resi	19.4	21.4	-2.0	-10.3	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R12/F08	W12/F08	Unknown-Resi	19.3	21.1	-1.8	-9.3	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R13/F08	W13/F08	Unknown-Resi	19.1	20.7	-1.6	-8.4	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R14/F08	W14/F08	Unknown-Resi	19.1	20.7	-1.6	-8.4	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R15/F08	W15/F08	Unknown-Resi	19.3	20.6	-1.3	-6.7	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R16/F08	W16/F08	Unknown-Resi	19.1	20.5	-1.4	-7.3	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R17/F08	W17/F08	Unknown-Resi	19.5	20.7	-1.2	-6.2	PASS	5.8	2.6	2.6	2.7	2.7	-0.1	-3.8
R18/F08	W18/F08	Unknown-Resi	19.3	20.5	-1.2	-6.2	PASS	5.8	2.5	2.5	2.7	2.7	-0.2	-8.0
R19/F08	W19/F08	Unknown-Resi	20.2	21.0	-0.8	-4.0	PASS	5.8	2.6	2.6	2.7	2.7	-0.1	-3.8
R20/F08	W20/F08	Unknown-Resi	20.3	20.9	-0.6	-3.0	PASS	5.8	2.6	2.6	2.7	2.7	-0.1	-3.8
R21/F08	W21/F08	Unknown-Resi	21.8	21.8	0.0	0.0	PASS	5.8	2.8	2.8	2.8	2.8	0.0	0.0
R22/F08	W22/F08	Unknown-Resi	24.8	24.2	0.6	2.4	PASS	6.4	2.6		2.5			
R22/F08	W23/F08	Unknown-Resi	30.8	30.6	0.2	0.6	PASS	12.8	6.0	8.6	6.0	8.5	0.1	1.2

Room	Window	Room Use	Vertical Sky Component				Pass/ Fail	Glazed Area	Average Daylight Factor				Loss	%	Pass/ Fail
			Existing	Proposed	Loss	%			Existing ADF	Total	Proposed ADF	Total			
R1/F09	W1/F09	Unknown-Resi	100.0	100.0	0.0	0.0	PASS	4.5	7.2		7.2				
R1/F09	W3/F09	Unknown-Resi	38.4	38.7	-0.3	-0.8	PASS	12.5	6.6	13.9	6.7	13.9	0.0	0.0	PASS
R2/F09	W2/F09	Unknown-Resi	37.4	37.6	-0.2	-0.5	PASS	15.1	6.8		6.8				
R2/F09	W17/F09	Unknown-Resi	99.2	99.2	0.0	0.0	PASS	2.2	3.0	9.8	3.0	9.8	0.0	0.0	PASS
R3/F09	W4/F09	Unknown-Resi	99.9	99.9	0.0	0.0	PASS	3.7	5.7		5.7				
R3/F09	W6/F09	Unknown-Resi	37.6	38.5	-0.9	-2.4	PASS	12.5	6.5	12.3	6.7	12.4	-0.1	-0.8	PASS
R4/F09	W5/F09	Unknown-Resi	38.1	38.7	-0.6	-1.6	PASS	12.5	6.6	6.6	6.7	6.7	-0.1	-1.5	PASS
R5/F09	W7/F09	Unknown-Resi	100.0	100.0	0.0	0.0	PASS	3.4	5.1		5.1				
R5/F09	W9/F09	Unknown-Resi	36.9	37.9	-1.0	-2.7	PASS	12.5	6.4	11.5	6.6	11.7	-0.2	-1.7	PASS
R6/F09	W8/F09	Unknown-Resi	37.1	38.2	-1.1	-3.0	PASS	12.5	6.5	6.5	6.6	6.6	-0.1	-1.5	PASS
R7/F09	W10/F09	Unknown-Resi	99.9	99.9	0.0	0.0	PASS	4.6	6.9		6.9				
R7/F09	W12/F09	Unknown-Resi	36.9	37.9	-1.0	-2.7	PASS	13.5	6.6	13.4	6.7	13.6	-0.2	-1.5	PASS
R8/F09	W11/F09	Unknown-Resi	36.8	37.9	-1.1	-3.0	PASS	12.5	6.4	6.4	6.6	6.6	-0.2	-3.1	PASS
R9/F09	W13/F09	Unknown-Resi	99.7	99.7	0.0	0.0	PASS	2.0	2.6		2.6				
R9/F09	W15/F09	Unknown-Resi	37.4	38.0	-0.6	-1.6	PASS	16.6	7.0		7.2				
R9/F09	W16/F09	Unknown-Resi	37.4	37.3	0.1	0.3	PASS	3.7	1.6	11.2	1.6	11.3	-0.1	-0.9	PASS
R10/F09	W14/F09	Unknown-Resi	37.0	37.9	-0.9	-2.4	PASS	13.5	6.6	6.6	6.7	6.7	-0.1	-1.5	PASS

*NSL daylight distribution results for
mirror mass*

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	%Loss	%Prev	%New
TIMBERWHARF								
R1/F03	Unknown-Resi	118.76	113.06	113.07	0.00	0.00	95.20	95.21
R2/F03	Unknown-Resi	123.81	48.09	48.12	-0.03	-0.06	38.85	38.87
R3/F03	Unknown-Resi	123.81	19.17	20.68	-1.51	-7.89	15.48	16.71
R4/F03	Unknown-Resi	123.81	16.29	19.92	-3.62	-22.24	13.16	16.09
R5/F03	Unknown-Resi	123.81	21.58	22.40	-0.82	-3.80	17.43	18.09
R6/F03	Unknown-Resi	123.81	22.79	31.71	-8.92	-39.12	18.41	25.61
R7/F03	Unknown-Resi	123.81	115.97	121.42	-5.45	-4.70	93.67	98.07
R8/F03	Unknown-Resi	123.81	26.01	27.57	-1.57	-6.03	21.01	22.27
R9/F03	Unknown-Resi	123.81	15.27	17.35	-2.08	-13.64	12.33	14.01
R10/F03	Unknown-Resi	123.81	17.29	17.72	-0.43	-2.50	13.96	14.31
R11/F03	Unknown-Resi	123.81	8.17	10.16	-1.98	-24.28	6.60	8.20
R12/F03	Unknown-Resi	123.81	10.48	13.21	-2.73	-26.09	8.46	10.67
R13/F03	Unknown-Resi	123.81	6.72	7.43	-0.71	-10.58	5.43	6.00
R14/F03	Unknown-Resi	123.81	5.85	7.66	-1.80	-30.84	4.73	6.18
R15/F03	Unknown-Resi	123.81	9.66	8.98	0.67	6.99	7.80	7.26
R16/F03	Unknown-Resi	123.81	3.21	5.86	-2.65	-82.42	2.59	4.73
R17/F03	Unknown-Resi	123.81	15.60	11.43	4.18	26.77	12.60	9.23
R18/F03	Unknown-Resi	123.81	3.00	5.55	-2.56	-85.41	2.42	4.49
R19/F03	Unknown-Resi	123.81	28.18	17.38	10.80	38.33	22.76	14.04
R20/F03	Unknown-Resi	123.81	14.91	7.14	7.77	52.14	12.04	5.76
R21/F03	Unknown-Resi	123.81	66.47	30.19	36.28	54.58	53.69	24.39
R22/F03	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F04	Unknown-Resi	118.76	113.81	113.83	-0.02	-0.02	95.83	95.85
R2/F04	Unknown-Resi	123.81	65.59	66.14	-0.55	-0.83	52.98	53.42
R3/F04	Unknown-Resi	123.81	39.19	39.79	-0.59	-1.51	31.66	32.14
R4/F04	Unknown-Resi	123.81	39.17	43.69	-4.51	-11.53	31.64	35.29
R5/F04	Unknown-Resi	123.81	46.66	47.84	-1.18	-2.53	37.69	38.64
R6/F04	Unknown-Resi	123.81	48.99	55.09	-6.10	-12.46	39.57	44.50
R7/F04	Unknown-Resi	123.81	118.99	122.59	-3.60	-3.03	96.11	99.02
R8/F04	Unknown-Resi	123.81	49.53	52.14	-2.60	-5.26	40.01	42.11
R9/F04	Unknown-Resi	123.81	30.30	35.49	-5.19	-17.12	24.47	28.66
R10/F04	Unknown-Resi	123.81	31.65	34.29	-2.64	-8.33	25.57	27.70
R11/F04	Unknown-Resi	123.81	10.39	18.66	-8.27	-79.58	8.39	15.07
R12/F04	Unknown-Resi	123.81	18.08	22.75	-4.67	-25.86	14.60	18.38
R13/F04	Unknown-Resi	123.81	7.87	14.05	-6.18	-78.54	6.36	11.35
R14/F04	Unknown-Resi	123.81	11.76	16.72	-4.95	-42.10	9.50	13.50
R15/F04	Unknown-Resi	123.81	10.65	12.43	-1.79	-16.76	8.60	10.04
R16/F04	Unknown-Resi	123.81	8.30	13.37	-5.08	-61.23	6.70	10.80
R17/F04	Unknown-Resi	123.81	16.43	14.87	1.56	9.52	13.27	12.01
R18/F04	Unknown-Resi	123.81	6.29	12.17	-5.88	-93.58	5.08	9.83
R19/F04	Unknown-Resi	123.81	28.76	20.44	8.32	28.93	23.23	16.51
R20/F04	Unknown-Resi	123.81	16.62	14.87	1.75	10.54	13.43	12.01
R21/F04	Unknown-Resi	123.81	66.75	32.73	34.02	50.97	53.91	26.44
R22/F04	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F05	Unknown-Resi	118.76	116.92	116.94	-0.03	-0.02	98.45	98.47
R2/F05	Unknown-Resi	123.81	97.54	98.74	-1.20	-1.23	78.78	79.75
R3/F05	Unknown-Resi	123.81	93.04	94.96	-1.92	-2.06	75.15	76.70
R4/F05	Unknown-Resi	123.81	93.56	95.25	-1.69	-1.80	75.57	76.94
R5/F05	Unknown-Resi	123.81	104.72	110.01	-5.28	-5.05	84.58	88.85
R6/F05	Unknown-Resi	123.81	115.55	116.75	-1.20	-1.04	93.33	94.30
R7/F05	Unknown-Resi	123.81	123.17	123.81	-0.64	-0.52	99.48	100.00
R8/F05	Unknown-Resi	123.81	99.10	103.59	-4.49	-4.53	80.05	83.67
R9/F05	Unknown-Resi	123.81	47.71	63.13	-15.42	-32.31	38.54	50.99
R10/F05	Unknown-Resi	123.81	45.35	55.35	-10.00	-22.05	36.63	44.71
R11/F05	Unknown-Resi	123.81	16.04	32.75	-16.72	-104.24	12.95	26.45
R12/F05	Unknown-Resi	123.81	24.94	36.57	-11.62	-46.60	20.15	29.53
R13/F05	Unknown-Resi	123.81	13.72	20.42	-6.70	-48.83	11.08	16.49
R14/F05	Unknown-Resi	123.81	17.14	27.73	-10.59	-61.77	13.84	22.40
R15/F05	Unknown-Resi	123.81	15.56	18.85	-3.28	-21.08	12.57	15.22
R16/F05	Unknown-Resi	123.81	14.25	21.67	-7.42	-52.02	11.51	17.50
R17/F05	Unknown-Resi	123.81	20.20	22.32	-2.12	-10.48	16.32	18.03
R18/F05	Unknown-Resi	123.81	14.21	18.58	-4.37	-30.74	11.48	15.00
R19/F05	Unknown-Resi	123.81	31.14	29.33	1.81	5.83	25.15	23.69
R20/F05	Unknown-Resi	123.81	22.38	21.60	0.78	3.47	18.08	17.45
R21/F05	Unknown-Resi	123.81	76.90	62.27	14.64	19.03	62.11	50.29
R22/F05	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F06	Unknown-Resi	118.76	118.76	118.76	0.00	0.00	100.00	100.00
R2/F06	Unknown-Resi	123.81	117.09	117.09	0.00	0.00	94.57	94.57
R3/F06	Unknown-Resi	123.81	116.08	116.08	0.00	0.00	93.76	93.76
R4/F06	Unknown-Resi	123.81	117.83	117.83	0.00	0.00	95.17	95.17
R5/F06	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R6/F06	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R7/F06	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R8/F06	Unknown-Resi	123.81	112.75	123.73	-10.98	-9.74	91.07	99.94
R9/F06	Unknown-Resi	123.81	60.84	118.25	-57.41	-94.37	49.14	95.51
R10/F06	Unknown-Resi	123.81	52.64	96.63	-43.99	-83.56	42.52	78.05
R11/F06	Unknown-Resi	123.81	28.86	53.70	-24.84	-86.09	23.31	43.37
R12/F06	Unknown-Resi	123.81	32.97	54.05	-21.08	-63.94	26.63	43.66
R13/F06	Unknown-Resi	123.81	28.58	34.30	-5.71	-19.98	23.09	27.70

TALBOT MILL
IR09
TIMBER WHARF MIRROR
DAYLIGHT DISTRIBUTION ANALYSIS

Room / Floor	Room Use	Whole Room	Prev sq ft	New sq ft	Loss sq ft	%Loss	%Prev	%New
R14/F06	Unknown-Resi	123.81	29.32	38.39	-9.07	-30.94	23.68	31.01
R15/F06	Unknown-Resi	123.81	29.97	34.13	-4.16	-13.88	24.21	27.56
R16/F06	Unknown-Resi	123.81	29.24	34.40	-5.15	-17.62	23.62	27.78
R17/F06	Unknown-Resi	123.81	32.18	34.60	-2.43	-7.55	25.99	27.95
R18/F06	Unknown-Resi	123.81	30.67	34.26	-3.60	-11.73	24.77	27.68
R19/F06	Unknown-Resi	123.81	39.26	39.70	-0.44	-1.13	31.71	32.07
R20/F06	Unknown-Resi	123.81	35.19	34.72	0.47	1.33	28.42	28.04
R21/F06	Unknown-Resi	123.81	72.28	57.95	14.33	19.82	58.38	46.81
R22/F06	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F07	Unknown-Resi	118.76	118.76	118.76	0.00	0.00	100.00	100.00
R2/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R3/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R4/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R5/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R6/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R7/F07	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R8/F07	Unknown-Resi	123.81	119.20	123.81	-4.61	-3.87	96.28	100.00
R9/F07	Unknown-Resi	123.81	102.17	123.64	-21.47	-21.02	82.53	99.87
R10/F07	Unknown-Resi	123.81	96.93	117.11	-20.18	-20.82	78.29	94.59
R11/F07	Unknown-Resi	123.81	94.52	106.02	-11.50	-12.16	76.35	85.63
R12/F07	Unknown-Resi	123.81	94.72	106.07	-11.35	-11.98	76.51	85.67
R13/F07	Unknown-Resi	123.81	94.61	106.47	-11.87	-12.54	76.42	86.00
R14/F07	Unknown-Resi	123.81	94.83	106.59	-11.75	-12.40	76.60	86.09
R15/F07	Unknown-Resi	123.81	94.98	106.85	-11.87	-12.49	76.72	86.30
R16/F07	Unknown-Resi	123.81	95.02	107.12	-12.10	-12.74	76.75	86.52
R17/F07	Unknown-Resi	123.81	95.04	107.40	-12.36	-13.01	76.76	86.75
R18/F07	Unknown-Resi	123.81	95.23	107.52	-12.30	-12.91	76.91	86.85
R19/F07	Unknown-Resi	123.81	99.29	107.62	-8.33	-8.39	80.20	86.93
R20/F07	Unknown-Resi	123.81	104.47	107.68	-3.21	-3.07	84.38	86.97
R21/F07	Unknown-Resi	123.81	118.07	107.96	10.10	8.56	95.36	87.20
R22/F07	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F08	Unknown-Resi	118.76	118.76	118.76	0.00	0.00	100.00	100.00
R2/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R3/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R4/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R5/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R6/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R7/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R8/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R9/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R10/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R11/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R12/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R13/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R14/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R15/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R16/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R17/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R18/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R19/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R20/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R21/F08	Unknown-Resi	123.81	123.81	123.81	0.00	0.00	100.00	100.00
R22/F08	Unknown-Resi	174.55	174.55	174.55	0.00	0.00	100.00	100.00
R1/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R2/F09	Unknown-Resi	306.34	306.34	306.34	0.00	0.00	100.00	100.00
R3/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R4/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R5/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R6/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R7/F09	Unknown-Resi	274.69	274.69	274.69	0.00	0.00	100.00	100.00
R8/F09	Unknown-Resi	253.71	253.71	253.71	0.00	0.00	100.00	100.00
R9/F09	Unknown-Resi	330.85	330.85	330.85	0.00	0.00	100.00	100.00
R10/F09	Unknown-Resi	274.69	274.69	274.69	0.00	0.00	100.00	100.00

APSH results for mirror mass

Room	Window	Room Use	Room				Winter %Loss	Annual %Loss	Pass/ Fail
			Existing		Proposed				
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
TIMBERWHARF									
R1/F03	W1/F03	Unknown-Resi	0	8	0	9	0.0	-13	PASS
R2/F03	W2/F03	Unknown-Resi	0	7	0	8	0.0	-14	PASS
R3/F03	W3/F03	Unknown-Resi	0	4	0	5	0.0	-25	PASS
R4/F03	W4/F03	Unknown-Resi	0	3	0	5	0.0	-67	PASS
R5/F03	W5/F03	Unknown-Resi	0	4	0	5	0.0	-25	PASS
R6/F03	W6/F03	Unknown-Resi	0	4	0	4	0.0	0	PASS
R7/F03	W7/F03	Unknown-Resi	0	4	0	5	0.0	-25	PASS
R8/F03	W8/F03	Unknown-Resi	0	3	0	3	0.0	0	PASS
R9/F03	W9/F03	Unknown-Resi	1	3	1	3	0.0	0	PASS
R10/F03	W10/F03	Unknown-Resi	0	1	0	2	0.0	-100	PASS
R11/F03	W11/F03	Unknown-Resi	2	2	2	3	0.0	-50	PASS
R12/F03	W12/F03	Unknown-Resi	0	0	0	0	0.0	0	PASS
R13/F03	W13/F03	Unknown-Resi	2	2	2	2	0.0	0	PASS
R14/F03	W14/F03	Unknown-Resi	0	0	0	0	0.0	0	PASS
R15/F03	W15/F03	Unknown-Resi	2	2	3	3	-50.0	-50	PASS
R16/F03	W16/F03	Unknown-Resi	0	0	0	0	0.0	0	PASS
R17/F03	W17/F03	Unknown-Resi	3	3	3	3	0.0	0	PASS
R18/F03	W18/F03	Unknown-Resi	0	0	0	0	0.0	0	PASS
R19/F03	W19/F03	Unknown-Resi	7	7	3	3	57.1	57	PASS
R20/F03	W20/F03	Unknown-Resi	3	4	0	1	100.0	75	PASS
R21/F03	W21/F03	Unknown-Resi	11	14	6	8	45.5	43	FAIL
R22/F03	W22/F03	Unknown-Resi							
R22/F03	W23/F03	Unknown-Resi	18	51	12	42	33.3	18	PASS
R1/F04	W1/F04	Unknown-Resi	0	13	1	14	0.0	-8	PASS

Room	Window	Room Use	Existing		Proposed		Winter %Loss	Annual %Loss	Pass/Fail
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
R2/F04	W2/F04	Unknown-Resi	0	12	1	14	0.0	-17	PASS
R3/F04	W3/F04	Unknown-Resi	0	11	1	13	0.0	-18	PASS
R4/F04	W4/F04	Unknown-Resi	0	9	0	12	0.0	-33	PASS
R5/F04	W5/F04	Unknown-Resi	0	9	3	14	0.0	-56	PASS
R6/F04	W6/F04	Unknown-Resi	0	11	0	14	0.0	-27	PASS
R7/F04	W7/F04	Unknown-Resi	0	8	2	13	0.0	-63	PASS
R8/F04	W8/F04	Unknown-Resi	0	7	0	11	0.0	-57	PASS
R9/F04	W9/F04	Unknown-Resi	1	5	2	11	-100.0	-120	PASS
R10/F04	W10/F04	Unknown-Resi	0	3	0	9	0.0	-200	PASS
R11/F04	W11/F04	Unknown-Resi	2	3	3	9	-50.0	-200	PASS
R12/F04	W12/F04	Unknown-Resi	0	2	0	5	0.0	-150	PASS
R13/F04	W13/F04	Unknown-Resi	2	2	3	5	-50.0	-150	PASS
R14/F04	W14/F04	Unknown-Resi	0	2	0	4	0.0	-100	PASS
R15/F04	W15/F04	Unknown-Resi	3	4	3	5	0.0	-25	PASS
R16/F04	W16/F04	Unknown-Resi	0	1	0	4	0.0	-300	PASS
R17/F04	W17/F04	Unknown-Resi	4	5	4	6	0.0	-20	PASS
R18/F04	W18/F04	Unknown-Resi	0	1	0	2	0.0	-100	PASS
R19/F04	W19/F04	Unknown-Resi	8	9	4	6	50.0	33	PASS
R20/F04	W20/F04	Unknown-Resi	3	5	0	3	100.0	40	PASS
R21/F04	W21/F04	Unknown-Resi	12	16	8	12	33.3	25	PASS
R22/F04	W22/F04	Unknown-Resi							
R22/F04	W23/F04	Unknown-Resi	19	53	14	48	26.3	9	PASS
R1/F05	W1/F05	Unknown-Resi	4	23	5	24	-25.0	-4	PASS
R2/F05	W2/F05	Unknown-Resi	1	24	1	24	0.0	0	PASS
R3/F05	W3/F05	Unknown-Resi	2	21	5	24	-150.0	-14	PASS
R4/F05	W4/F05	Unknown-Resi	1	22	2	23	-100.0	-5	PASS

TALBOT MILL
IR09
TIMBER WHARF MIRROR
Sunlight Analysis

Room	Window	Room Use	Existing		Proposed		Winter %Loss	Annual %Loss	Pass/Fail
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
R5/F05	W5/F05	Unknown-Resi	4	24	4	25	0.0	-4	PASS
R6/F05	W6/F05	Unknown-Resi	1	22	3	26	-200.0	-18	PASS
R7/F05	W7/F05	Unknown-Resi	3	22	3	25	0.0	-14	PASS
R8/F05	W8/F05	Unknown-Resi	0	18	0	23	0.0	-28	PASS
R9/F05	W9/F05	Unknown-Resi	3	17	2	22	33.3	-29	PASS
R10/F05	W10/F05	Unknown-Resi	0	13	0	19	0.0	-46	PASS
R11/F05	W11/F05	Unknown-Resi	3	13	3	17	0.0	-31	PASS
R12/F05	W12/F05	Unknown-Resi	0	11	0	16	0.0	-45	PASS
R13/F05	W13/F05	Unknown-Resi	3	11	3	15	0.0	-36	PASS
R14/F05	W14/F05	Unknown-Resi	0	11	0	14	0.0	-27	PASS
R15/F05	W15/F05	Unknown-Resi	4	12	3	14	25.0	-17	PASS
R16/F05	W16/F05	Unknown-Resi	0	9	0	14	0.0	-56	PASS
R17/F05	W17/F05	Unknown-Resi	4	12	4	15	0.0	-25	PASS
R18/F05	W18/F05	Unknown-Resi	0	9	0	14	0.0	-56	PASS
R19/F05	W19/F05	Unknown-Resi	8	16	5	16	37.5	0	PASS
R20/F05	W20/F05	Unknown-Resi	3	14	1	14	66.7	0	PASS
R21/F05	W21/F05	Unknown-Resi	13	39	10	37	23.1	5	PASS
R22/F05	W22/F05	Unknown-Resi							
R22/F05	W23/F05	Unknown-Resi	22	74	16	68	27.3	8	PASS
R1/F06	W1/F06	Unknown-Resi	11	34	11	34	0.0	0	PASS
R2/F06	W2/F06	Unknown-Resi	7	33	9	35	-28.6	-6	PASS
R3/F06	W3/F06	Unknown-Resi	8	33	12	37	-50.0	-12	PASS
R4/F06	W4/F06	Unknown-Resi	4	32	8	36	-100.0	-13	PASS
R5/F06	W5/F06	Unknown-Resi	8	34	12	38	-50.0	-12	PASS
R6/F06	W6/F06	Unknown-Resi	3	30	9	37	-200.0	-23	PASS

Room	Window	Room Use	Existing		Proposed		Winter %Loss	Annual %Loss	Pass/Fail
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
R7/F06	W7/F06	Unknown-Resi	5	30	10	36	-100.0	-20	PASS
R8/F06	W8/F06	Unknown-Resi	1	27	5	33	-400.0	-22	PASS
R9/F06	W9/F06	Unknown-Resi	4	26	7	31	-75.0	-19	PASS
R10/F06	W10/F06	Unknown-Resi	0	23	2	28	0.0	-22	PASS
R11/F06	W11/F06	Unknown-Resi	3	20	5	27	-66.7	-35	PASS
R12/F06	W12/F06	Unknown-Resi	0	21	2	27	0.0	-29	PASS
R13/F06	W13/F06	Unknown-Resi	3	20	5	25	-66.7	-25	PASS
R14/F06	W14/F06	Unknown-Resi	0	21	2	25	0.0	-19	PASS
R15/F06	W15/F06	Unknown-Resi	5	22	5	24	0.0	-9	PASS
R16/F06	W16/F06	Unknown-Resi	1	21	2	25	-100.0	-19	PASS
R17/F06	W17/F06	Unknown-Resi	6	23	6	25	0.0	-9	PASS
R18/F06	W18/F06	Unknown-Resi	2	21	2	24	0.0	-14	PASS
R19/F06	W19/F06	Unknown-Resi	9	26	8	27	11.1	-4	PASS
R20/F06	W20/F06	Unknown-Resi	4	24	3	25	25.0	-4	PASS
R21/F06	W21/F06	Unknown-Resi	12	30	10	29	16.7	3	PASS
R22/F06	W22/F06	Unknown-Resi							
R22/F06	W23/F06	Unknown-Resi	19	68	16	66	15.8	3	PASS
R1/F07	W1/F07	Unknown-Resi	18	57	19	58	-5.6	-2	PASS
R2/F07	W2/F07	Unknown-Resi	14	51	15	52	-7.1	-2	PASS
R3/F07	W3/F07	Unknown-Resi	16	57	17	58	-6.3	-2	PASS
R4/F07	W4/F07	Unknown-Resi	12	50	14	52	-16.7	-4	PASS
R5/F07	W5/F07	Unknown-Resi	16	57	17	58	-6.3	-2	PASS
R6/F07	W6/F07	Unknown-Resi	11	49	14	52	-27.3	-6	PASS
R7/F07	W7/F07	Unknown-Resi	13	54	17	58	-30.8	-7	PASS
R8/F07	W8/F07	Unknown-Resi	6	44	9	47	-50.0	-7	PASS
R9/F07	W9/F07	Unknown-Resi	9	49	12	53	-33.3	-8	PASS

Room	Window	Room Use	Existing		Proposed		Winter %Loss	Annual %Loss	Pass/Fail
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
R10/F07	W10/F07	Unknown-Resi	4	40	6	44	-50.0	-10	PASS
R11/F07	W11/F07	Unknown-Resi	8	47	8	49	0.0	-4	PASS
R12/F07	W12/F07	Unknown-Resi	4	40	4	42	0.0	-5	PASS
R13/F07	W13/F07	Unknown-Resi	8	46	9	49	-12.5	-7	PASS
R14/F07	W14/F07	Unknown-Resi	4	39	4	42	0.0	-8	PASS
R15/F07	W15/F07	Unknown-Resi	9	47	9	49	0.0	-4	PASS
R16/F07	W16/F07	Unknown-Resi	4	39	4	42	0.0	-8	PASS
R17/F07	W17/F07	Unknown-Resi	9	47	9	49	0.0	-4	PASS
R18/F07	W18/F07	Unknown-Resi	5	40	4	41	20.0	-3	PASS
R19/F07	W19/F07	Unknown-Resi	12	50	12	52	0.0	-4	PASS
R20/F07	W20/F07	Unknown-Resi	6	41	6	43	0.0	-5	PASS
R21/F07	W21/F07	Unknown-Resi	16	55	13	54	18.8	2	PASS
R22/F07	W22/F07	Unknown-Resi							
R22/F07	W23/F07	Unknown-Resi	22	87	18	84	18.2	3	PASS
R1/F08	W1/F08	Unknown-Resi	24	52	24	52	0.0	0	PASS
R2/F08	W2/F08	Unknown-Resi	20	52	21	53	-5.0	-2	PASS
R3/F08	W3/F08	Unknown-Resi	24	52	25	53	-4.2	-2	PASS
R4/F08	W4/F08	Unknown-Resi	18	51	21	54	-16.7	-6	PASS
R5/F08	W5/F08	Unknown-Resi	23	51	25	53	-8.7	-4	PASS
R6/F08	W6/F08	Unknown-Resi	18	50	20	52	-11.1	-4	PASS
R7/F08	W7/F08	Unknown-Resi	20	48	23	51	-15.0	-6	PASS
R8/F08	W8/F08	Unknown-Resi	15	48	17	50	-13.3	-4	PASS
R9/F08	W9/F08	Unknown-Resi	17	45	21	49	-23.5	-9	PASS
R10/F08	W10/F08	Unknown-Resi	11	45	16	50	-45.5	-11	PASS
R11/F08	W11/F08	Unknown-Resi	16	44	18	46	-12.5	-5	PASS

Room	Window	Room Use	Existing		Proposed		Winter %Loss	Annual %Loss	Pass/Fail
			Winter APSH	Annual APSH	Winter APSH	Annual APSH			
R12/F08	W12/F08	Unknown-Resi	11	45	13	47	-18.2	-4	PASS
R13/F08	W13/F08	Unknown-Resi	16	44	18	46	-12.5	-5	PASS
R14/F08	W14/F08	Unknown-Resi	11	44	13	47	-18.2	-7	PASS
R15/F08	W15/F08	Unknown-Resi	16	44	18	46	-12.5	-5	PASS
R16/F08	W16/F08	Unknown-Resi	11	43	13	46	-18.2	-7	PASS
R17/F08	W17/F08	Unknown-Resi	17	45	18	46	-5.9	-2	PASS
R18/F08	W18/F08	Unknown-Resi	12	44	13	46	-8.3	-5	PASS
R19/F08	W19/F08	Unknown-Resi	18	46	18	46	0.0	0	PASS
R20/F08	W20/F08	Unknown-Resi	14	46	13	46	7.1	0	PASS
R21/F08	W21/F08	Unknown-Resi	21	49	19	47	9.5	4	PASS
R22/F08	W22/F08	Unknown-Resi							
R22/F08	W23/F08	Unknown-Resi	24	84	23	84	4.2	0	PASS
R1/F09	W1/F09	Unknown-Resi							
R1/F09	W3/F09	Unknown-Resi	29	100	29	100	0.0	0	PASS
R2/F09	W2/F09	Unknown-Resi							
R2/F09	W17/F09	Unknown-Resi	29	97	29	97	0.0	0	PASS
R3/F09	W4/F09	Unknown-Resi							
R3/F09	W6/F09	Unknown-Resi	29	100	29	100	0.0	0	PASS
R4/F09	W5/F09	Unknown-Resi	29	82	29	82	0.0	0	PASS
R5/F09	W7/F09	Unknown-Resi							
R5/F09	W9/F09	Unknown-Resi	29	100	29	100	0.0	0	PASS
R6/F09	W8/F09	Unknown-Resi	28	81	29	82	-3.6	-1	PASS
R7/F09	W10/F09	Unknown-Resi							
R7/F09	W12/F09	Unknown-Resi	29	100	29	100	0.0	0	PASS
R8/F09	W11/F09	Unknown-Resi	28	81	29	82	-3.6	-1	PASS
R9/F09	W13/F09	Unknown-Resi							
R9/F09	W15/F09	Unknown-Resi							
R9/F09	W16/F09	Unknown-Resi	29	100	29	100	0.0	0	PASS
R10/F09	W14/F09	Unknown-Resi	28	81	29	82	-3.6	-1	PASS

RIGHTS OF LIGHT

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