



Planning Application for the Aylesbury Estate Regeneration

Plot 18 Reserved Matters Application

Daylight, Sunlight and Overshadowing Assessment

HTA Design LLP

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 Notting Hill
Housing

 Southwark
Council

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AYLESBURYNOW

Aylesbury - Plot 18

Daylight,
Sunlight and
Overshadowing
Assessment

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Contents

1.0 Executive Summary	2
2.0 Introduction and Context	5
3.0 Design intent	6
4.0 Planning policy	7
5.0 Methodology	8
6.0 Site model	13
7.0 Daylight assessment	16
8.0 Sunlight assessment	26
9.0 Overshadowing	31
10.0 Conclusions	35
Appendix A - Detailed Daylight/Sunlight results - Impact on the surrounding buildings	36
Appendix B - Shadow range	78
Appendix C - Detailed Daylight results - Proposed building	80
Appendix D - Detailed Sunlight results - Proposed building	87

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1.0 Executive Summary

HTA Design LLP has been appointed by Notting Hill Housing to prepare a Daylight and Sunlight Assessment to support the submission of a Reserved matters Planning Application for the construction of Plot 18.

Plot 18 is located within Phase 2a of the Aylesbury Regeneration Scheme. The development comprises two buildings arranged around a public open space.

The North Block is designed by HTA Design LLP Architects and the South Block is design by Duggan Morris Architects. The North Block (Subplot 18A) accommodates commercial uses, a community Facility and 122 new homes. The South Building (Plot 18B) accommodates a Health Centre and the Early Years facility.

The main scope of this study is to assess the impact of the new development on the existing surrounding properties and open spaces in terms of daylight and sunlight as well as the performance of the new residential units.

To ensure that this assessment can be appropriately evaluated against Southwark Council's planning policy, the analysis has been carried out in accordance with the following guidance documents:

- Building Research Establishment (BRE) *Site Layout Planning for Sunlight and Daylight: A Guide to Good Practice* (2011)
- British Standard BS8206-2:2008 *Lighting for buildings-Part 2: Code of Practice for Daylighting*

The Daylight and Sunlight Assessment has been carried out for the relevant windows of the residential properties located immediately adjacent to the proposed new development. These properties could be impacted by the new buildings.

For sunlight, in accordance with the BRE Guide, only windows facing within 90 degrees of due south need to be assessed, therefore not all the buildings directly facing the new development have been tested in the sunlight assessment.

No internal survey has been undertaken for the residential properties surrounding Plot 18. For this reason, the Daylight and Sunlight Assessment has been carried out on the assumption that the windows affected will be of the most sensitive habitable use. Therefore, the results consider a robust worst case scenario.

The results of the impact assessment show that most of the existing windows will have a negligible impact.

The proposed scheme has been carefully designed to provide future occupants with adequate daylight and sunlight levels throughout the year, paying attention not to impact negatively on the natural daylight received by the neighbouring buildings.

The following tables summarise the results of the analysis.

The existing open spaces have also been assessed against relevant BRE sunlight criteria. Results show that only one space will not achieve the current sunlight levels, given the presence of the South Block. Careful attention has been given to this space minimizing the impact as explained in the following sections of this report.

Aylesbury Square has been analysed to guide the landscape architects in their decisions.



Figure 1: Aerial view of Plot 18

1.0 Executive Summary

VERTICAL SKY COMPONENT

	Analysed rooms	Number of passing room		Number of failing rooms	
Building 1	28	28	100%	0	0%
Building 2	15	15	100%	0	0%
Building 3	10	10	100%	0	0%
Building 4	15	7	47%	8	53%
Building 5	20	20	100%	0	0%
Building 6	6	6	100%	0	0%
Building 7	30	10	33%	20	67%
Building 8	295	224	76%	71	24%
Building 9	67	58	87%	9	13%
	486	378	78%	108	22%

Table 1: Results of the Impact of Plot 18 on the surrounding existing properties - Daylight Assessment

ANNUAL PERCENTAGE SUNLIGHT HOURS

	Analysed rooms	Number of passing room		Number of failing rooms	
Building 2	8	8	100%	0	0%
Building 3	8	8	100%	0	0%
Building 5	14	14	100%	0	0%
Building 7	30	16	53%	14	47%
Building 8	295	225	76%	70	24%
	355	271	76%	84	24%

Table 2: Results of the Impact of Plot 18 on the surrounding existing properties - Sunlight Assessment

AVERAGE DAYLIGHT FACTOR

	Analysed rooms	Number of passing room		Number of failing rooms	
Block 1	162	156	96%	6	4%
Block 2	82	71	87%	11	13%
Block 3	80	70	88%	10	13%
	324	297	92%	27	8%

NO-SKY LINE

Block 1	162	156	96%	6	4%
Block 2	82	70	85%	12	15%
Block 3	80	65	81%	15	19%
	324		90%		10%

Table 3: Results of the Daylight Assessment of Plot 18

	Analysed rooms	Number of passing room		Number of failing rooms	
Block 1	56	56	100%	0	0%
Block 2	24	24	100%	0	0%
Block 3	37	37	100%	0	0%
	117	117	100%	0	0%

Table 4: Results of the Sunlight Assessment of Plot 18

1.0 Executive Summary



Figure 2: Visualisation of Plot 18

2.0 Introduction and Context

The Aylesbury Regeneration Area is situated in the London Borough of Southwark, south of Elephant and Castle and immediately east of Walworth Road.

The Aylesbury Area Action Plan (2010), provides the planning policy framework for the redevelopment of the entire 22.1 hectare area, to replace the existing units. Plot 18 includes residential, community and retail facilities to replace and expand the existing provision.

Plot 18 is located within Phase 2a of the Aylesbury Estate Regeneration Scheme. The application is for 122 new homes, a Health Centre, an Early Years Facility, a Community Facility and commercial units. The development comprises two buildings arranged around public open space.

It is critical that the new regeneration area includes a neighbourhood centre, which is complementary to the Walworth Road and also East Street market. The development of Plot 18 will establish an identity that defines this as a local destination and landmark of the area.

The North Block is designed by HTA Design LLP Architects and the South Building is designed by Duggan Morris Architects. The North Block (Subplot 18a) accommodates Commercial Uses, a Community Facility and 122 new homes. The South Block (Subplot 18b) accommodates a Health Centre and the Early Years Facility.

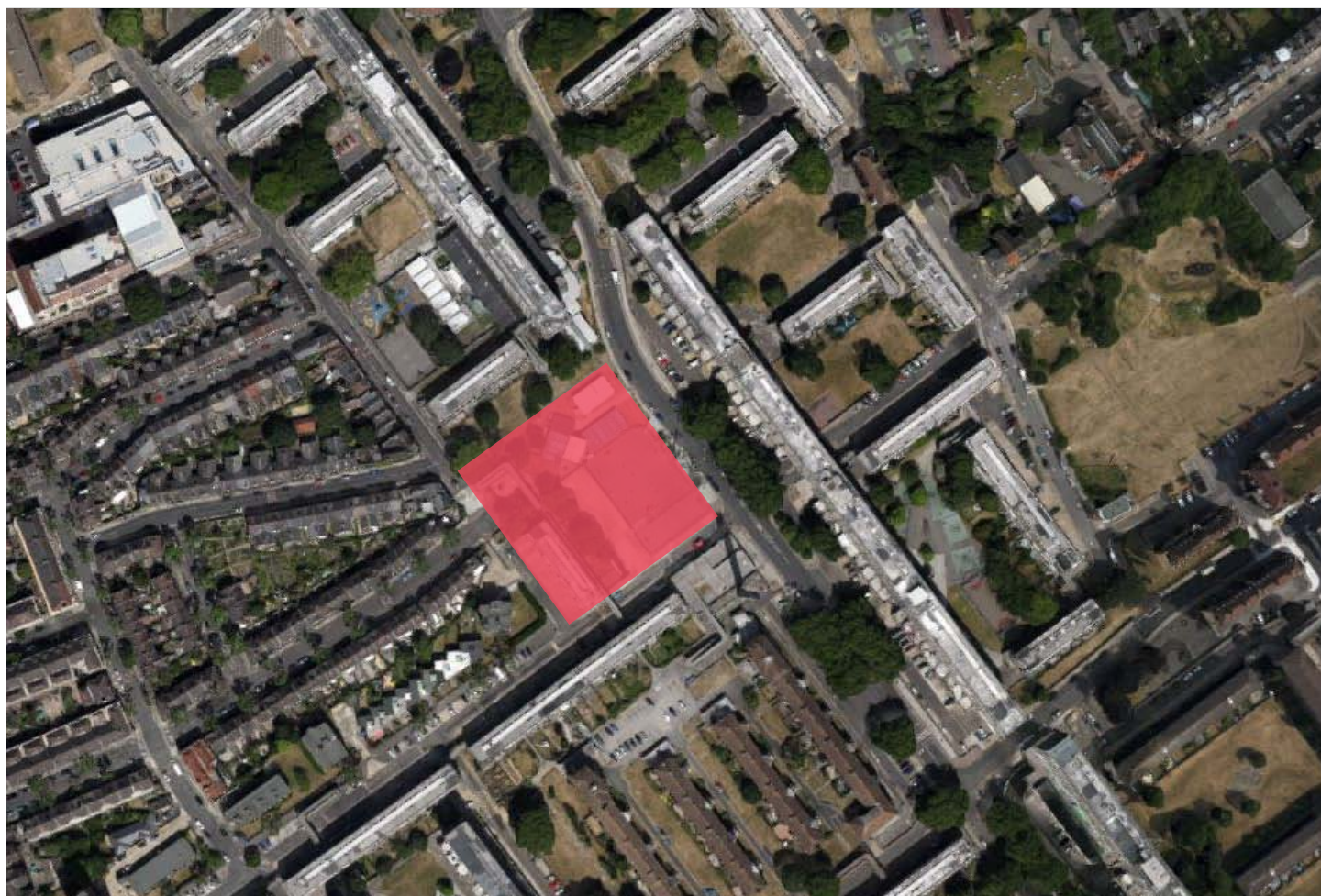


Figure 3: Existing site location

3.0 Design intent

The design of Plot 18 is in accordance with the requirements set out in the Aylesbury Area Action Plan (AAP).

Specific references in the AAP to requirements regarding the quality of the development with particular reference to daylight and sunlight are as follows.

A6.4.35 Skyline

A varied skyline can be achieved through the following:

- Varying the height of each building plot – there should be a minimum change in height of 1.5 metres for every 30 metres of roofline.
- Different expressions of roofs and tops of buildings by using varied materials and finishes.
- The introduction of projections on the building and roofline.
- Stepping back the façade at upper levels of the building. This can reduce tunnel effects, improve natural lighting at street level and provide roof terrace amenity space.

Section 3.2.3

'Higher residential densities near parks and open spaces will give greater opportunities for more residents to live close to, or enjoy a view over, open space. They will generate the value required to support the viability of the whole development'

A6.6 Blocks and Buildings

'The location of balconies must however be balanced with the need to provide daylight to lower levels flats and to the street.'

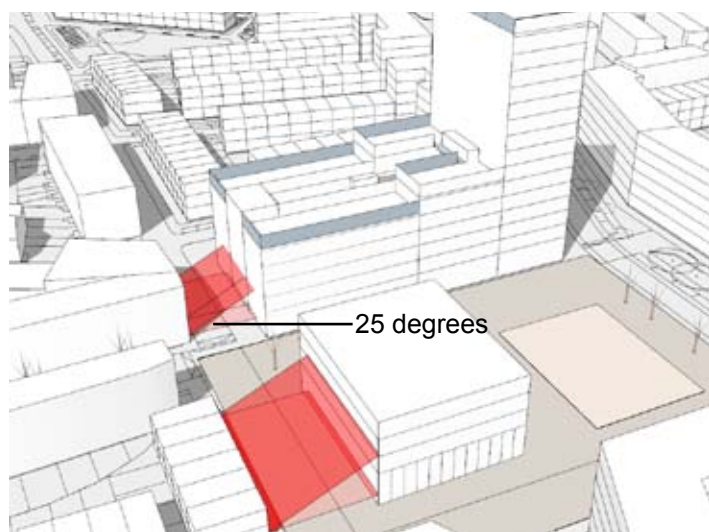


Figure 5: 25 degree test carried out at the beginning of the design process to assess the potential impact on the opposite buildings

The detailed designs of apartments have been tested at early stages in the design process to inform the designers about the performance of the units from a daylight/sunlight perspective. Changes have been made to preliminary designs to improve the performance of typical dwellings wherever possible. The shape and layout of the dwellings is informed by a desire to create high quality living spaces.

The design of Plot 18 has carefully been assessed to minimise any negative impact on the surrounding existing properties, especially for those within the Liverpool Grove Conservation Area.

Initial Daylight and Sunlight façade studies were carried out comparing a variety of options to find out the best solution which was able to minimise the impact of the existing building, but also maximising the light and the view of the sky within the new dwellings.

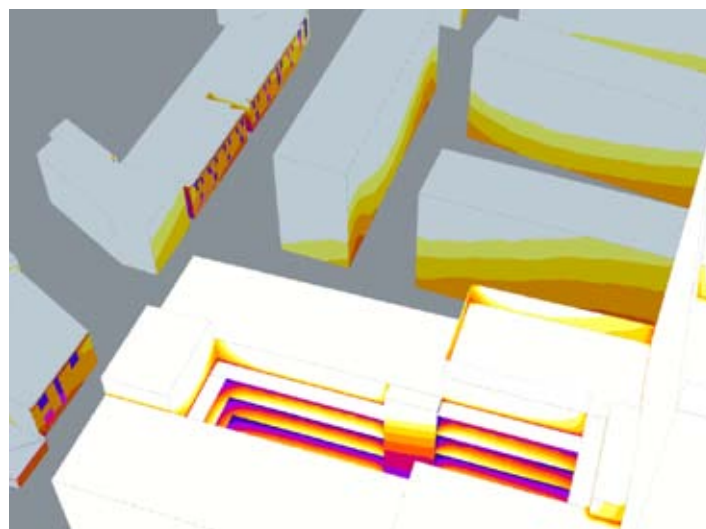


Figure 4: Daylight façade study - Initial analysis

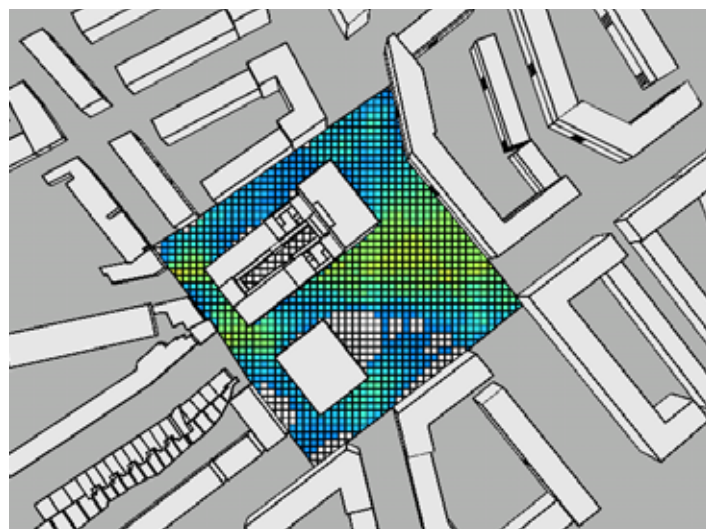


Figure 6: Sunlight levels on 21st March - Initial analysis

4.0 Planning policy

2015 Technical Update to the Residential Design Standards (2011)

London Borough of Southwark asks designers to ensure that the proposed development and the neighboring properties receive adequate daylight and sunlight levels. The Council provides guidance through its Supplementary Planning Document: Residential design standards adopted in October 2011, which contains the following policy guidance under section 2.7 Daylight and Sunlight:

2.7 Daylight and sunlight

Residential developments should maximise sunlight and daylight, both within the new development and to neighbouring properties. Development should seek to minimise overshadowing or blocking of light to adjoining properties. A lack of daylight can have negative impacts on health as well as making the development gloomy and uninviting.

Maximising sunlight and daylight also helps to make a building energy efficient by reducing the need for electric light and meeting some of the heating requirements through solar gain. The orientation of buildings can maximise passive solar gain to keep buildings warm in winter and cool in summer.

Developments should meet site layout requirements set out in the Building Research Establishment (BRE) Site Layout for Daylight and Sunlight – A Guide to Good Practice (1991).

The Council recommends BRE Guide 'Site Layout Planning for Sunlight and Daylight: A Guide to Good Practice' as the recognised standard against which daylight and sunlight provision within Plot 18 should be assessed.

Aylesbury Area Action Plan (2010)

The Aylesbury Area Action Plan favours the presence of balconies, but asks the designers to ensure that they are carefully designed to ensure daylight is provided to lower levels.

A6.6.30 Balconies

Balconies offer an opportunity to modulate and create visual interest on building façades, articulating frontages and providing outdoor amenity space for residents. Balconies also provide more active building frontages by allowing residents to overlook streets and open spaces below, which increases vitality and safety on the streets and helps to develop a sense of place. The location of balconies must however



Figure 7: View of Subplot 18a and Aylesbury Square at night

be balanced with the need to provide daylight to lower levels flats and to the street.

Section A6.8.17 of the document refers to the soft landscape. Trees and plants must take into account the street hierarchy, the need for shade and wind protection, and the need to maintain daylighting into people's homes.

The following section briefly describes the methodology outlined in BRE guidance and highlights all relevant standards against which Plot 18 has been assessed.

5.0 Methodology - Assessment criteria

5.1 Daylight - Impact of the new buildings on the existing ones

The Daylight and Sunlight Assessment, presented in this report, has been carried out in compliance with the methodology outlined in the Building Research Establishment (BRE) Guide 'Site Layout Planning for Sunlight and Daylight: A Guide to Good Practice (2011)' and the British Standard BS8206-2:2008 Lighting for buildings – Part 2: Code of practice for daylighting.

BRE Guide gives advice on site layout to achieve provision of daylight and sunlight both within buildings and in the open spaces between them. The BRE guide aims to aid designers in considering the relationship between new and existing buildings to ensure that each retains the potential to achieve good daylighting and sunlight levels.

BRE guidelines have been drafted primarily for use with low density suburban developments and should therefore be used flexibly when dealing with dense urban sites and extensions to existing buildings.

The Guide states in the introduction:

The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the guide should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design. In special circumstances the developer or planning authority may wish to use different target values. For example, in a 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.

5.1 Daylight – Impact of the new buildings on the existing ones

The design of a new development should safeguard potential for daylight to nearby buildings. Otherwise, obstruction caused by new built sites may make surrounding properties look gloomy and unattractive.

BRE guidelines are intended for use for living areas in adjoining dwellings where daylight is required. The methodology is based on guidelines set out in the 2011 BRE Handbook. The methodology to assess daylight impacts of the properties surrounding the Comprehensive Development is as follows:

Test 1: 25 Degree Line method. This test should only be used where the proposed development is of a reasonably uniform profile and is directly opposite the existing building. For this reason only where this condition is met the 25 degree rule has been applied

and if the new development subtends an angle of less than 25 degrees to the centre of the lowest window of an existing building, then it is unlikely to have a substantial effect on the daylight received by the existing dwelling. For an angle greater than 25 degrees or in the presence of development that has a non uniform profile, a more detailed assessment is needed to calculate the loss of daylight to the existing building.

Test 2: Vertical Sky Component method (VSC).

The VSC is a unit of measurement that represents the amount of available daylight from the sky, received at a particular window. It is measured on the outside face of the window. This unit is expressed as a percentage as it is the ratio between the amount of sky visible at the given reference point compared to the amount of light that would be available from a totally unobstructed hemisphere of sky. To put this unit of measurement into perspective, the maximum percentage value for a window with a completely unobstructed view through 90° in every direction is 40%.

In order to maintain good levels of daylight the BRE guidance recommend that the VSC of a window should be 27% or greater. However, the 2011 BRE Handbook makes allowance for different target values in cases where a higher degree of obstruction may be unavoidable such as historic city centres or modern high rise buildings. The guide states that the 27% value is:

“..purely advisory and different targets may be used on the special requirements of the proposed development or its location.”

Where the VSC is greater than 27%, meaning that enough daylight is still reaching the window of the existing building, additional calculations have been carried out further to assess the impact of the Comprehensive Development on the daylight provision at the existing properties.

Test 3: Comparison method. The comparison test considers the VSC results of the baseline condition and the VSC results of the Development in place. The 2011 BRE Handbook states that where the VSC with the Development completed is less than 27% the comparison with the existing situation should be analyzed and if the VSC is less than 0.8 times its former value, occupants of the existing building will notice a reduction in the amount of daylight. In order to provide an impact assessment on the existing properties the comparison test has been carried out in any case.

5.0 Methodology - Assessment criteria

5.2 Daylight - Assessment within the new buildings

5.2 Daylight - Assessment within the new buildings

The quality and quantity of daylighting in an interior space depends on two main factors: external environment and internal layout. External environment, e.g. obstruction from neighbouring buildings or topographical features has an impact on daylight provision whereas internal layout and windows' size affects daylight distribution within a living area.

Section 2.1 and Appendix C of the BRE guide provide several methods for calculating daylight levels within new developments.

According to the BRE guide and BS8206, only main living areas within a dwelling, i.e. kitchens, living/dining rooms and bedrooms, should be assessed against the criteria provided, as these are occupied for a long period throughout the day and daylighting is essential for carrying out tasks. Therefore, secondary spaces, e.g. circulation areas, bathrooms and storerooms, are excluded from this study.

Vertical Sky Component

The Vertical Sky Component (VSC) quantifies the amount of available daylight, received at a particular window and measured on the outer pane of the window. This is the ratio, expressed as a percentage, of the direct illuminance falling on a reference point (usually the centre of the window) to the simultaneous horizontal illuminance under an unobstructed sky (overcast sky conditions). The maximum value of VSC for a completed unobstructed vertical window pane is 40%.

According to BRE Guide, if VSC as measured at the centre of a window is at least 27% then the living space is expected to receive good daylight levels.

The VSC, however, is a general measure of potential for daylight in a space that does not take into consideration the function of the space being assessed and should be carried out at early design when rooms' layout is not yet determined and the optimum position of windows is being assessed. Therefore, VSC calculation has been omitted from this study.

Average Daylight Factor

The most effective way to assess quality and quantity of daylight within a living area is by calculating the Average Daylight Factor (ADF). The ADF, which measures the overall amount of daylight in a space, is the ratio of the average illuminance on the working plane in a room to the illuminance on an unobstructed horizontal surface outdoors, expressed as a percentage.

The ADF takes into account the VSC value, i.e. the amount of daylight received on windows, the size and number of windows, the diffuse visible transmittance of the glazing used, the maintenance factor and the reflectance of the room surfaces. Therefore, it is considered as a more detailed and representative measure of the daylight levels within a living area.

In housing, BS 8206-2 recommends minimum values of ADF of 2% for kitchens, 1.5% for living rooms and 1% for bedrooms.

Position of the No-Sky line

A measure to assess the distribution of daylight in a space is the percentage of area that lies beyond the no-sky line i.e. the area that receives no direct skylight. This is important as it indicates how good the distribution of daylight is in a room. If more than 20% of the working plane lies beyond the no-sky line poor daylight levels are expected within the space.

Table 5 summarises the assessment criteria as described in the BRE Guide that should be applied to new developments in order to ensure good daylight levels within the main living areas of residential units.

For the purposes of this study, only the Average Daylight Factor and No-Sky view methods described above have been considered. Contrary to the VSC that measures daylight levels only on the window pane, the ADF is a more complex and representative calculation as it takes into account the angle of visible sky reaching the windows as well as the room layout, use and surface reflectance.

Section 7 of this report provides analysis of the results, which are presented in Appendix C.

Measure of Interior Daylight	Benchmark	Daylight Criterion
Vertical Sky Component	27%	If VSC is at least 27% then conventional window design will usually give reasonable results
Average Daylight Factor (ADF)	2.0%	Minimum value of ADF for kitchens
	1.5%	Minimum value of ADF for living rooms
	1.0%	Minimum value of ADF for bedrooms
No-Sky View	80%	There will be a good distribution of light in the room if at least 80% of the working plane receives direct skylight

Table 5: Daylight Assessment Criteria

5.0 Methodology - Assessment criteria

5.3 Sunlight - Impact of the new buildings on the existing properties

Sunlight - Impact of the new buildings on the existing properties

The impact of the new development on the sunlight levels received by the neighbouring buildings has been carried out in accordance with the BRE Guide.

The methodology is based on guidelines set out in the 2011 BRE Handbook. Only windows facing 90° of due south have been considered for this kind of calculation. The methodology to assess sunlight impacts of the properties surrounding the Development is as follows.

APSH and WPSH method. The BRE have produced sunlight templates for London, Manchester and Edinburgh indicating the Annual Probable Sunlight Hours (APSH) for these regions. The London template has been selected for this study which has an APSH of 1,486 hours and a Winter Probable Sunlight Hours of 446 hours. The same VSC reference points are used for the calculation of the APSH and WPSH. It should be considered that sunlight is deemed less important in kitchens and bedrooms. The 2011 BRE Handbook states:

In houses, the main requirement for sunlight is in living rooms, where it is valued at any time of day, but especially in the afternoon.

The 2011 BRE Handbook also states:

..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.

The BS 8206-2 recommends that for a space to be reasonably sunlit:

- at least one main window wall should face within 90° of due south and
- the centre of at least one window to a main living room should receive 25% of annual probable sunlight hours, including at least 5% of annual probable sunlight hours in the winter months between 21 September and 21 March. If a room has multiple windows on the same wall or on adjacent walls, the highest value of APSH should be taken. If a room has two windows on opposite walls, the APSH due to each can be added together.

If the available sunlight hours are below the above thresholds then an additional assessment has been carried out.

Comparison method. The comparison test considers the APSH and WPSH results of the baseline condition and the APSH and WPSH results of the Development in place. The BRE guidance says that if the reduction in sunlight between the baseline condition and the future one results in an APSH and WPSH of at least 0.8 times its former value, then it is considered that the sunlight received is adequate.



Figure 8: View of Subplot 18a - Library entrance

5.0 Methodology - Assessment criteria

5.4 Sunlight - Assessment within the new buildings

5.4 Sunlight - Assessment within the new buildings

Sunlight is valued as it provides dwellings with light and warmth and it also allows for passive heating through solar gains that reduces heating energy consumption. Optimum arrangement of the site to produce the best orientation (within 90° of due south) and reduce overshadowing should be considered in order to take advantage of solar energy during winter time.

According to the BRE Guide, the main requirement for sunlight in housing is in living rooms, whereas in bedrooms and kitchens sunlight is viewed as less important. Therefore, BS 8206-2 recommends that for a space to be reasonably sunlit:

- at least one main window wall should face within 90° of due south and
- the centre of at least one window to a main living room should receive 25% of annual probable sunlight hours, including at least 5% of annual probable sunlight hours in the winter months between 21 September and 21 March. If a room has multiple windows on the same wall or on adjacent walls, the highest value of APSH should be taken. If a room has two windows on opposite walls, the APSH due to each can be added together.

The overall sunlighting potential of a large residential development may be initially assessed by counting how many dwellings have a window to a main living room facing south east or west. Site layout design should aim to maximise the number of dwellings with a main living room that meets the above recommendations.

However, according to the BRE Guide, at high-density developments it becomes difficult to avoid some dwellings being seriously obstructed or having a poor orientation. Where prolonged access to sunlight is available, measures to avoid overheating and unwanted glare from the sun should be considered.



Figure 9: Facade detail

5.0 Methodology - Assessment criteria

5.5 Overshadowing - Open spaces

5.5.1 Overshadowing - Existing open spaces

The methodology is based on guidelines set out in the 2011 BRE Handbook that states the following:

The availability of sunlight should be checked for all open spaces where it will be required. This would normally include: gardens (usually the main back garden of a house), parks and playing fields, children's playgrounds...

The BRE Guide recommends that for a garden or amenity to appear adequately sunlit throughout the year, at least half of it should receive at least two hours of sunlight on 21 March (Spring Equinox). The Guide suggests that where large buildings are proposed which may affect a number of amenity spaces it is useful to plot a shadow plan to show the location of shadows at different times of the day on 21 March. For this date the shadow range calculation has been carried out at hourly intervals throughout the day from 7:00 a.m. to 5:00 p.m.

The methodology to assess the sunlight impact of the amenity spaces is as follows:

Test 1: % of area which receives sun: The path of the sun is tracked and it is compared with the presence of the obstructions within the analyzed site. Sunlight provision is considered adequate if at least 50% of the amenity space receives two hours of sunlight on 21 March.

Test 2: comparison method: this analysis tests if the amenity space receives at least 80% of sunlight of its former value. If this is the case the BRE guidance states that the loss of sunlight is negligible.

The BRE Guide recommends that for a garden or amenity to appear adequately sunlit throughout the year, at least half of it should receive at least two hours of sunlight on 21 March.

For both the impact of the existing amenity spaces and outdoor spaces within Plot 18, an overshadowing assessment has been also carried on the 21 June (mid-summer's day).



Figure 10: View toward Aylesbury Square

6.0 Site model

The technical analysis was carried out by creating a three-dimensional model of the scheme and its surroundings in IES <VE> software.

The Daylight and Sunlight Assessment of Plot 18 and the impact on the surrounding buildings was based on up-to-date drawings provided by the design team on 28th March 2016.

The simulations were carried out considering two different models:

Model 1: Baseline condition (existing condition with the existing buildings on site)

Model 2: New Development Option (Development Parcel 18 with the surrounding existing buildings)

Floor layouts shown on the next pages highlight those units included in the daylight and sunlight study described in the following sections.

Daylight and Sunlight calculations were based on the following assumptions:

- The standard CIE (Commission Internationale de L'Eclairage – International Commission on Illumination) overcast sky was used

- The working plane was set at 0.85m above the floor as per the BRE guidance for dwellings

- A maintenance factor of 0.90 has been assumed (medium room direct/indirect clean twice per year)

- Clean, clear double glazing with a low emissivity coating was assumed with diffuse visible transmittance of 0.7 (Internal and external reflectance of 0.10)

- The following values were used for the room surfaces' reflectance to match the reflectance of the materials that will be selected by the architects: 0.60 for walls, 0.70 for ceilings and 0.40 for floors

- Calculations have not taken into account reflectance of external surfaces. This would improve results as light-coloured external surfaces would reflect light back to the living areas.

- The impact of the existing trees and the proposed planting on the skylight and sunlight were considered to be negligible. Therefore, trees and hedges were excluded from the calculation.

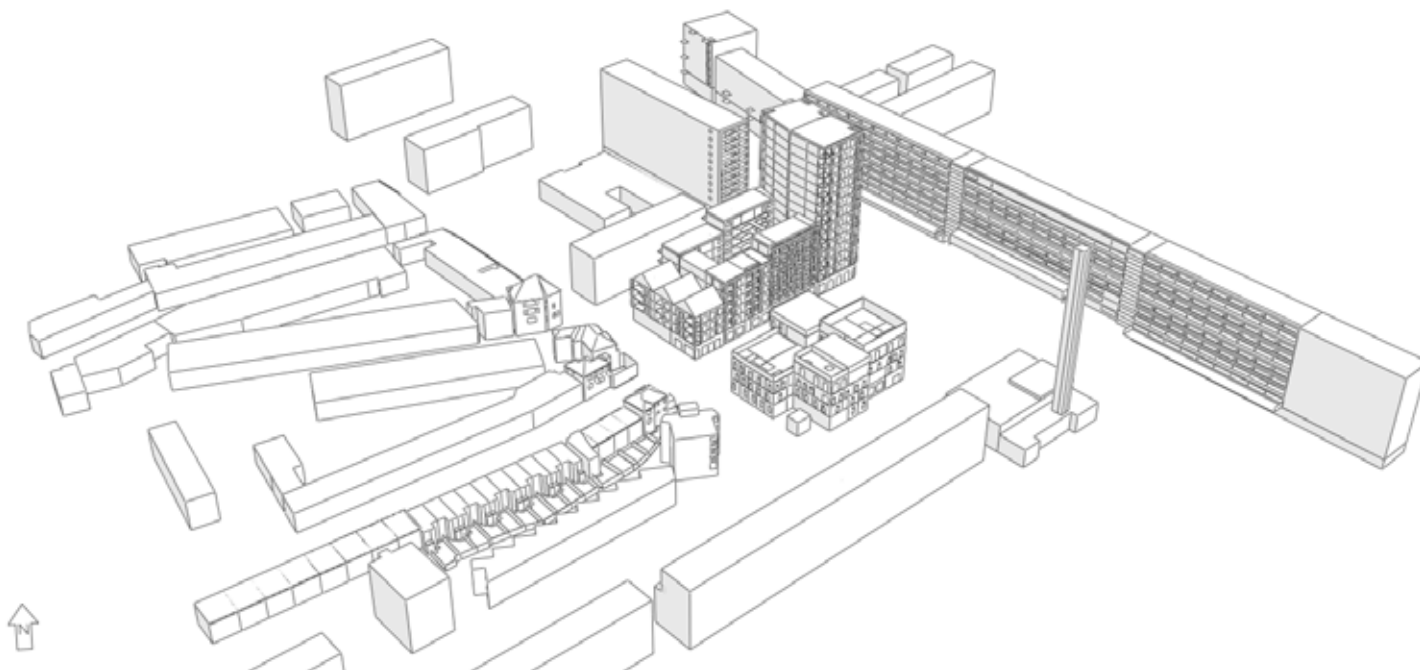


Figure 11: 3D view of the model created with IES Virtual Environment software

6.0 Site model

Code naming conventions: **B1-0101-Bedroom**

Block number	Unit number	Activity
B1	0101	Bedroom

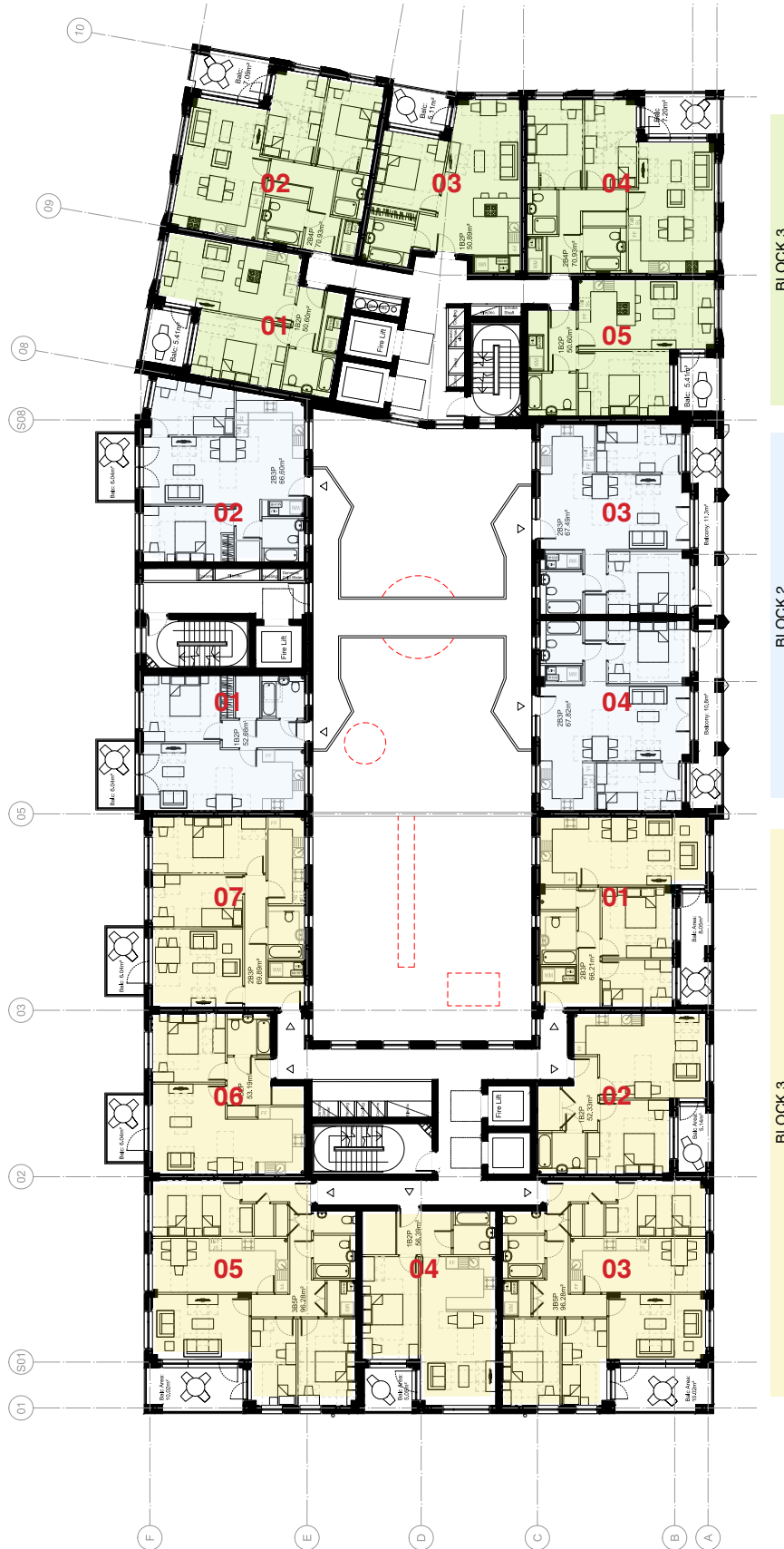


Figure 12: Typical Floor

6.0 Site model

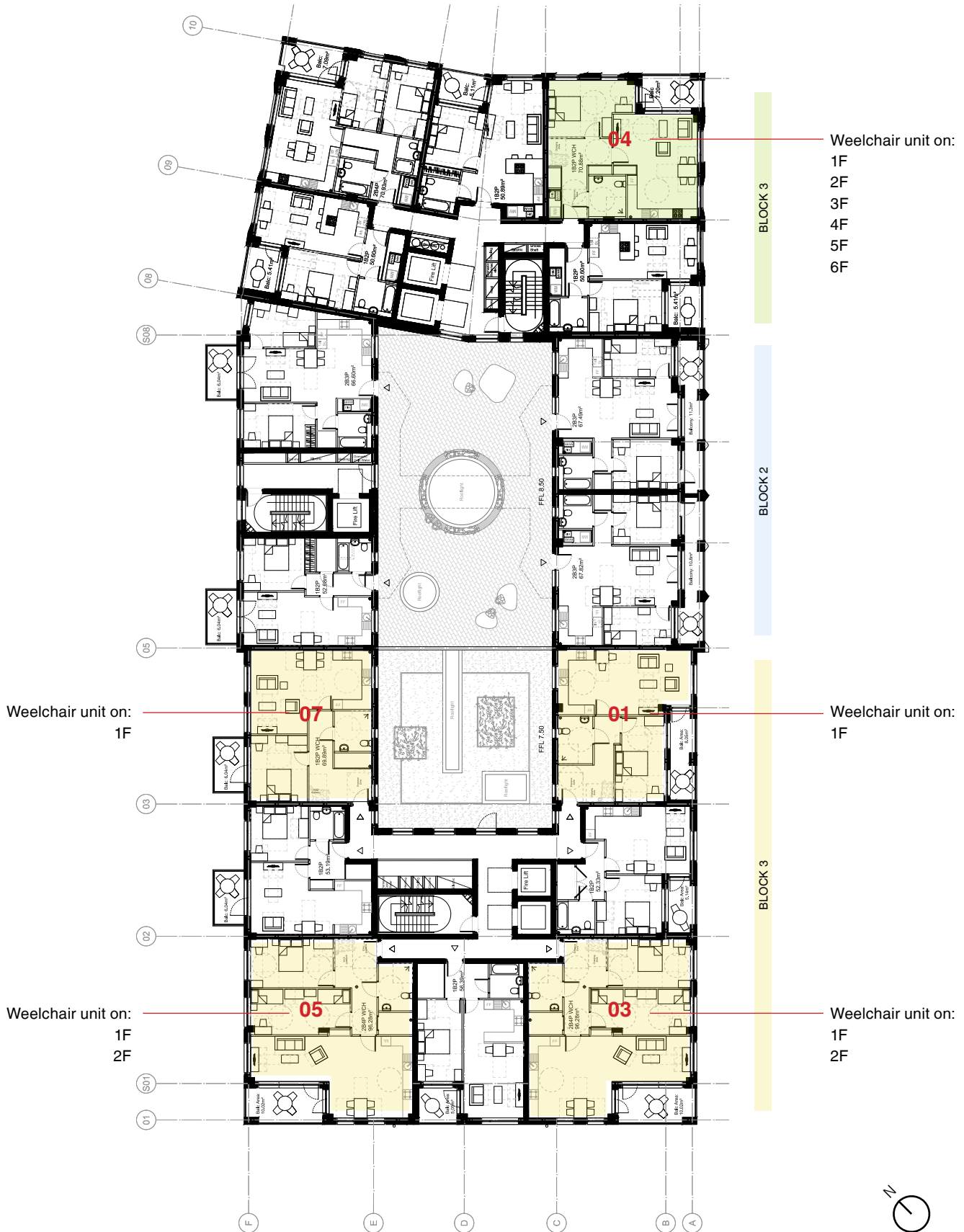


Figure 13: Location of wheelchair units

7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

In accordance with the BRE guide and the site inspection the following existing buildings required assessment.

Building 1	Dawes Street - Chadwell House
Building 2	Dawes Street
Building 3	Dawes Street
Building 4	Dawes Street
Building 5	Dawes Street
Building 6	Dawes Street
Building 7	Thurlow Street
Building 8	Thurlow Street
Building 9	Inville Road

The results of our VSC analysis are shown in full in Appendix D.

Because of the importance of the impact of the new development in terms of daylight, the comparison of the existing situation with the new one has been analysed even though the VSC on the existing buildings with the new Development in place complies with the requirements - VSC of at least 27% (Test 2).

The results indicate that most of the windows - 378 windows out of 486 - surrounding the site will continue to receive adequate daylight as defined by the BRE guidance.

In particular there will be 8 windows failing the daylight criteria in Building 4 in Dawes Street. They will directly face the proposed buildings, where the current situation shows no existing buildings in front of them. Of these failing windows only two - window 3 and window 4 - will experience a VSC reduction of almost 30%, the remainder will have marginal failures, with a reduction of no more than ca. 26%. The windows at the ground floor level are also part of commercial units, therefore the impact can be considered negligible.

20 windows out of 30 in Building 7 in Thurlow Street will be also negatively affected. This is due to the North Block and particularly to the Special Tower which will obstruct the light from the windows facing South. It should be noted that Building 7 is part of the Aylesbury Estate Regeneration Scheme and it is planned to be demolished in the coming years, therefore the negative impact of the above windows can be considered as negligible.

71 out of 295 windows in Building 8 will be adversely affected by the Development Parcel 18 and in particular by the North Block. In particular windows at the lower levels and windows below a recessed balcony will be negatively affected. The presence of balconies and recessed walls can significantly reduce the light entering below. Because the balcony cuts

out light from the top part of the sky, even a modest obstruction opposite may result in a large relative impact on the VSC.

As stated for Building 7 above, the impact of the affected windows in Building 8 can be considered negligible as it is part of the Aylesbury Regeneration Scheme and it is planned to be demolished.

9 windows out 58 in Building 9 will be negatively affected by the South Block. Three windows are located on the first floor and the remainder on the floor above, which consist of recessed walls and full height windows.

As for Building 7 and Building 8, the affected windows of Building 9 will have a negligible impact given that they are within the Aylesbury Estate Regeneration Scheme.

Table 6 presents a summary of the results. The table shows that 78% of the assessed openings will pass the criteria set by the BRE Guide and the remainder will fail as explained above.

The following pages show the location of the affected openings; they have been highlighted in a light yellow.

7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

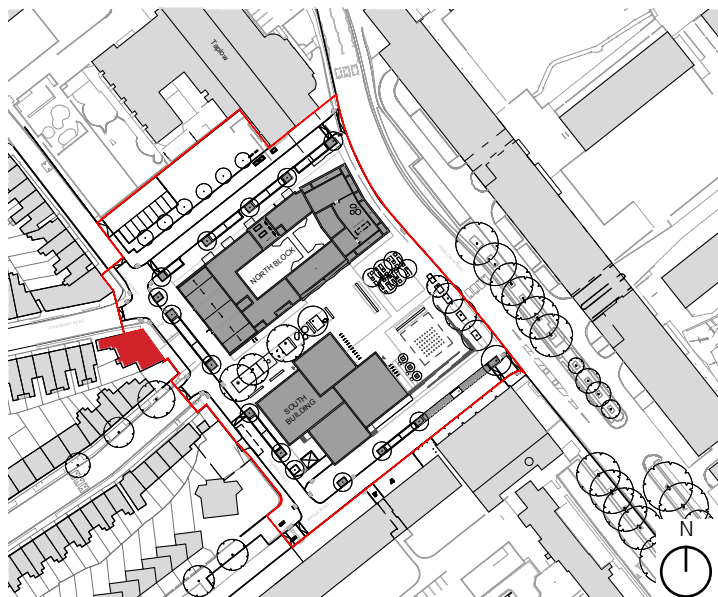
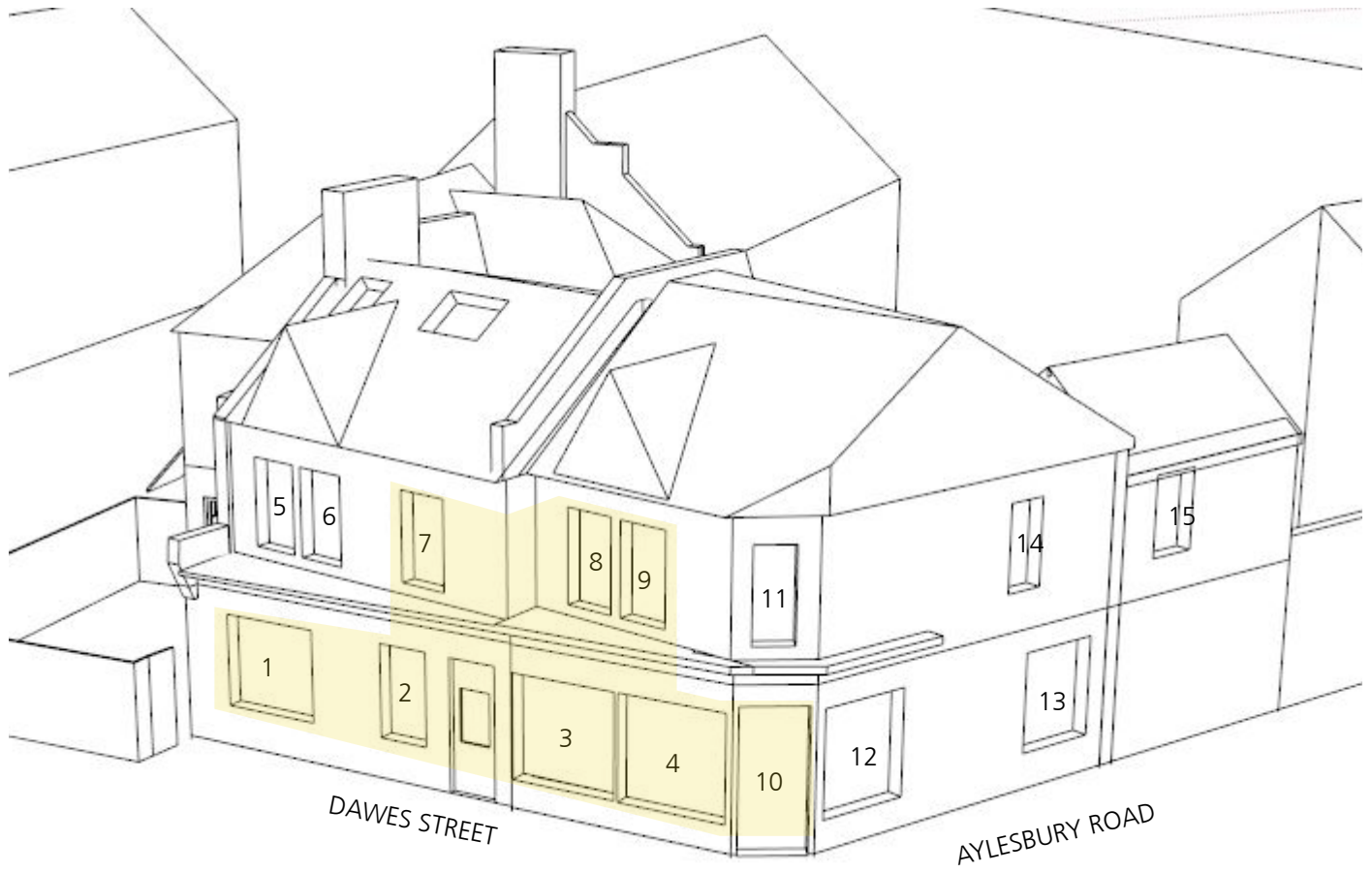
		Analysed windows	Number of passing rooms		Number of failing rooms		
Building 1	GF	13	13	100%	0	0%	
	1F	5	5	100%	0	0%	
	2F	5	5	100%	0	0%	
	3F	5	5	100%	0	0%	
	Total	28	28	100%	0	0%	
Building 2	GF	6	6	100%	0	0%	
	1F	9	9	100%	0	0%	
	Total	15	15	100%	0	0%	
Building 3	GF	4	4	100%	0	0%	
	1F	6	6	100%	0	0%	
	Total	10	10	100%	0	0%	
Building 4	GF	7	2	29%	5	71%	
	1F	8	5	63%	3	38%	
	Total	15	7	47%	8	53%	
Building 5	GF	6	6	100%	0	0%	
	1F	7	7	100%	0	0%	
	2F	7	7	100%	0	0%	
	Total	20	20	100%	0	0%	
Building 6	GF	2	2	100%	0	0%	
	1F	4	4	100%	0	0%	
	Total	6	6	100%	0	0%	
Building 7	GF	3	1	33%	2	67%	
	1F	3	1	33%	2	67%	
	2F	3	1	33%	2	67%	
	3F	3	1	33%	2	67%	
	4F	3	1	33%	2	67%	
	5F	3	1	33%	2	67%	
	6F	3	1	33%	2	67%	
	7F	3	1	33%	2	67%	
	8F	3	1	33%	2	67%	
	9F	3	1	33%	2	67%	
Total	30	10	33%	20	67%		
Building 8	8A	GF	9	0	0%	9	100%
		1F	10	2	20%	8	80%
		2F	10	1	10%	9	90%
		3F	12	1	8%	11	92%
		4F	12	12	100%	0	0%
		5F	12	3	25%	9	75%
		6F	12	3	25%	9	75%
		7F	12	12	100%	0	0%
	8F	12	4	33%	8	67%	
	Total	101	38	38%	63	62%	
	8B	GF	10	9	90%	1	10%
		1F	11	11	100%	0	0%
		2F	11	8	73%	3	27%
3F		12	10	83%	2	17%	
4F		12	12	100%	0	0%	
5F		12	11	92%	1	8%	
6F		12	11	92%	1	8%	
7F		12	12	100%	0	0%	
8F	12	12	100%	0	0%		
Total	104	96	92%	8	8%		
8C	GF	10	10	100%	0	0%	
	1F	10	10	100%	0	0%	
	2F	10	10	100%	0	0%	
	3F	10	10	100%	0	0%	
	4F	10	10	100%	0	0%	
	5F	10	10	100%	0	0%	
	6F	10	10	100%	0	0%	
	7F	10	10	100%	0	0%	
	8F	10	10	100%	0	0%	
Total	90	90	100%	0	0%		
Building 9	GF	16	13	81%	3	19%	
	1F	19	13	68%	6	32%	
	2F	16	16	100%	0	0%	
	3F	16	16	100%	0	0%	
Total	67	58	87%	9	13%		
		486	378	78%	108	22%	

Table 6: Daylight Assessment - Impact on the existing properties - Summary of the results

7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

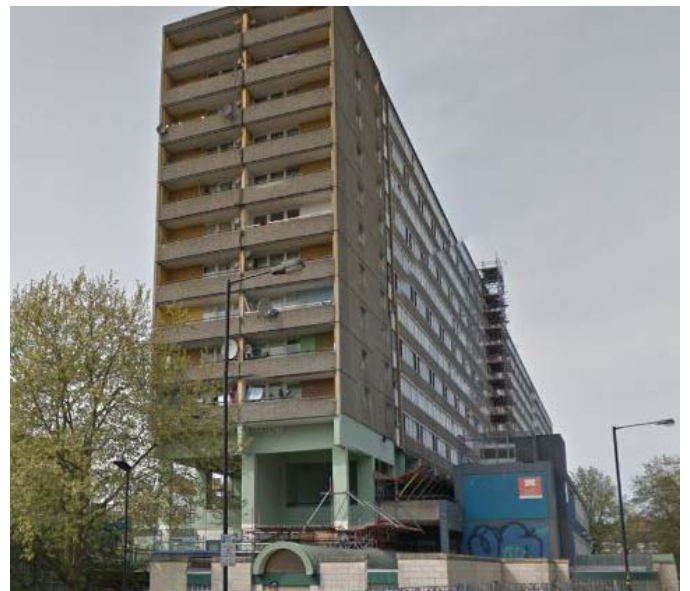
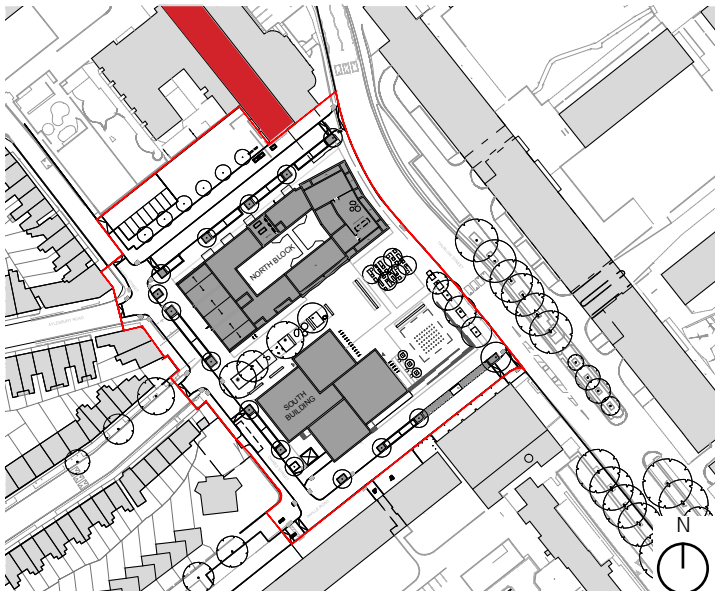
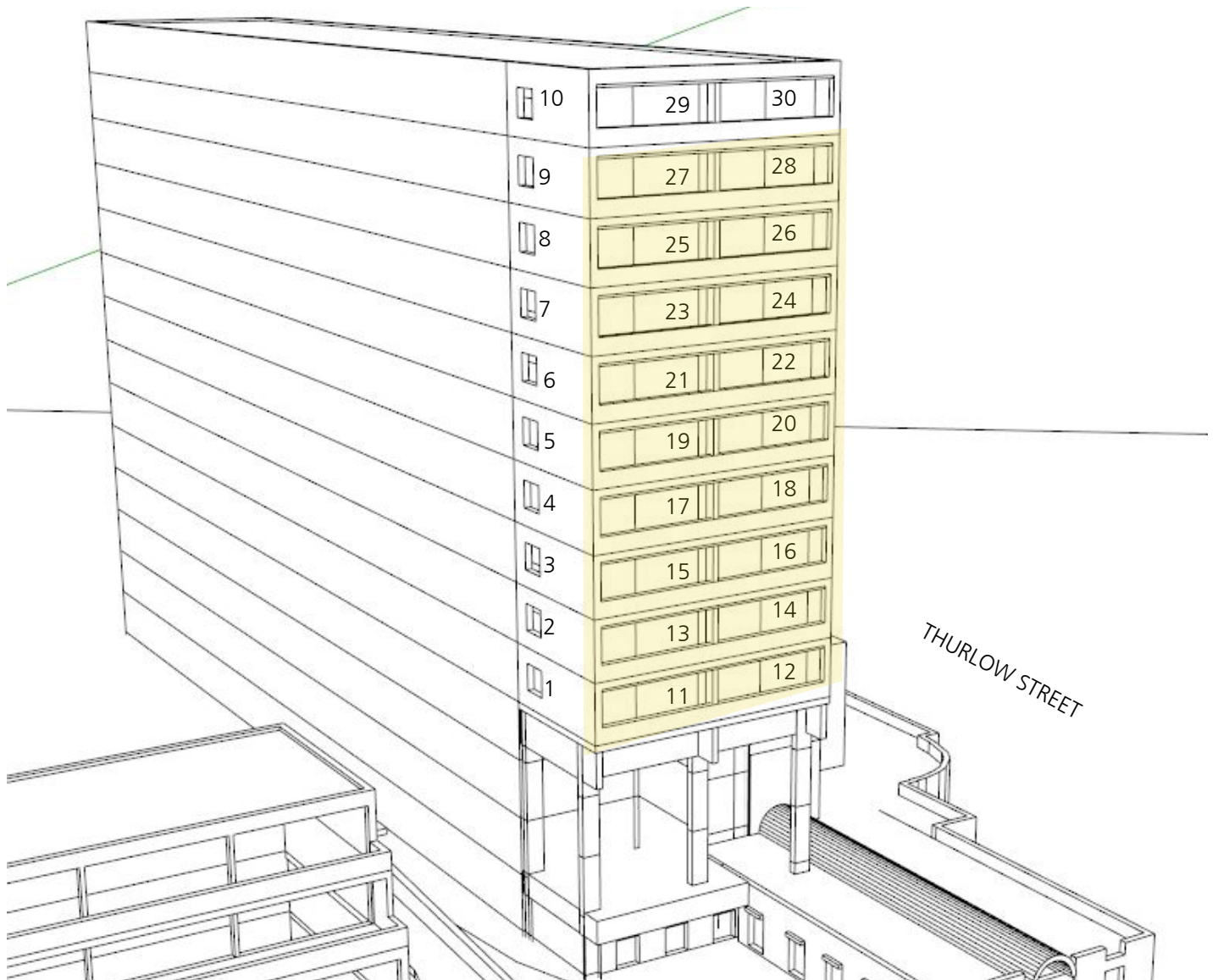
Building 4 - Dawes Street



7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

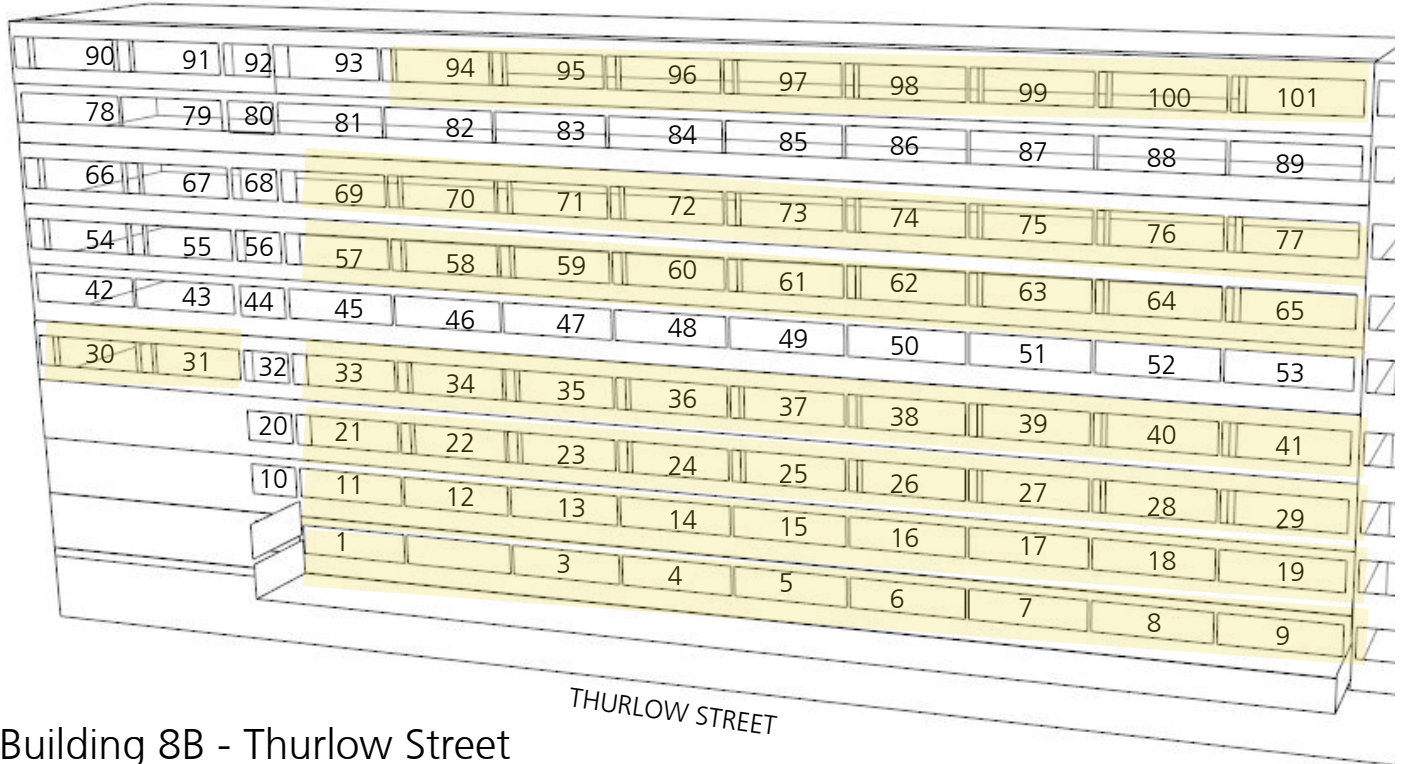
Building 7 - Thurlow Street



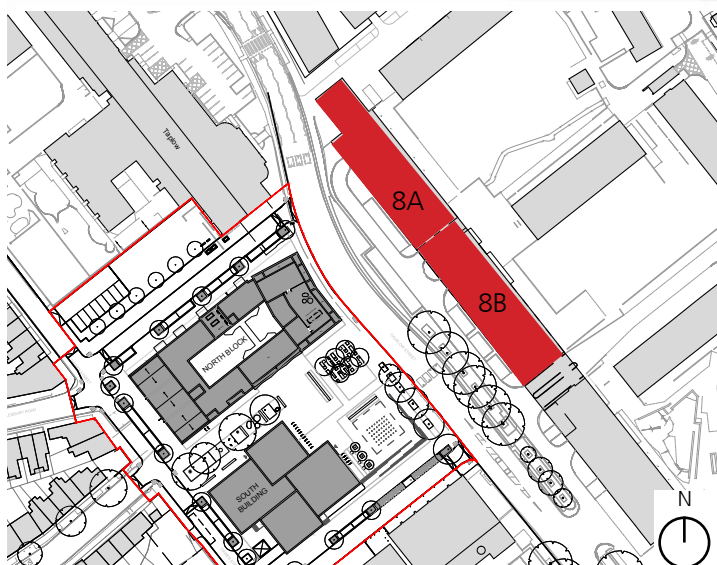
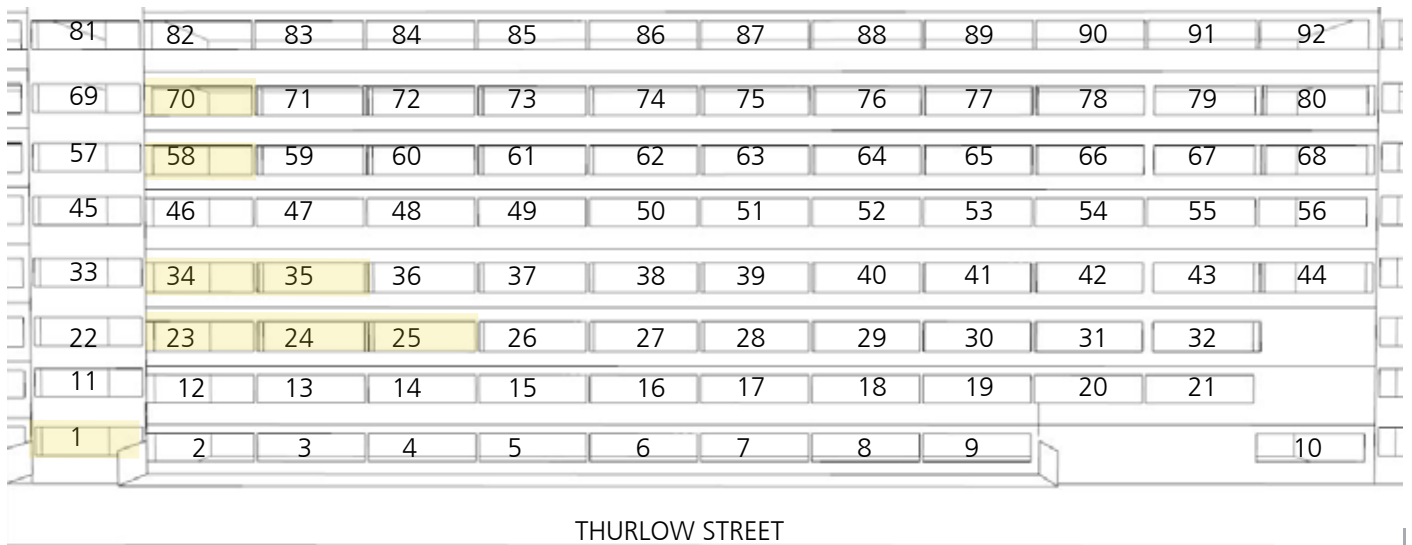
7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

Building 8A - Thurlow Street



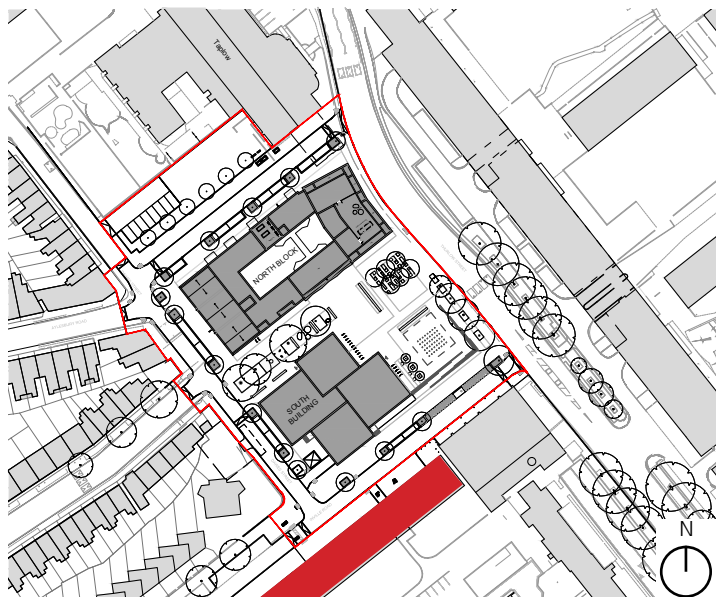
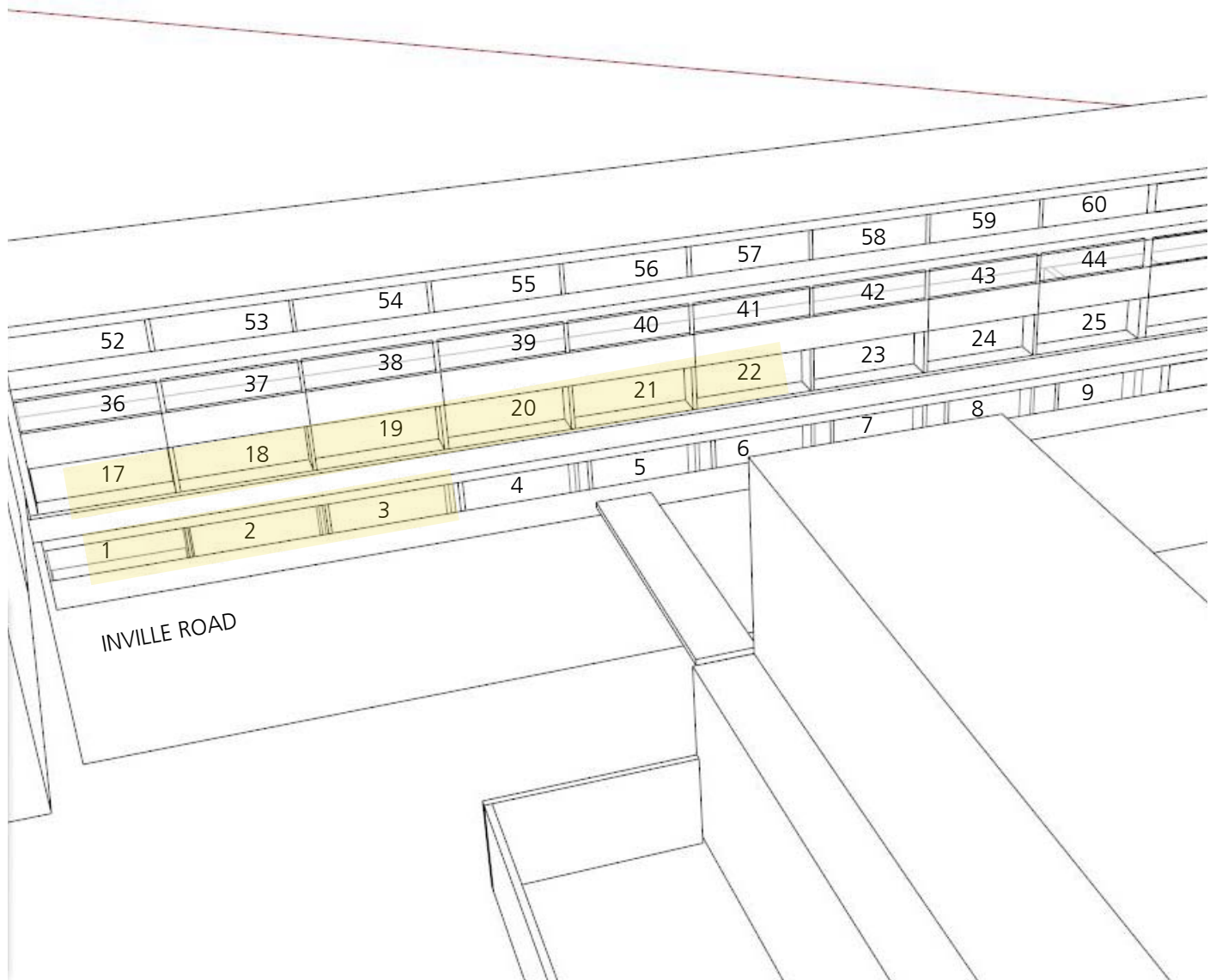
Building 8B - Thurlow Street



7.0 Daylight assessment

7.1 Impact on existing surrounding buildings

Building 9 - Inville Road



7.0 Daylight assessment

7.2 Assessment of the new development

A Daylight Assessment has been undertaken for the residential units in the North Block. All the units - rather than representative units - have been analysed.

Following the methodology described in section 5.2 - Assessment within the new buildings - the Average Daylight Factor (ADF) analysis has been undertaken.

The BRE Guide refers to BS 8206-2 to set the minimum daylight levels for each space. Each space has been assessed against the following criteria:

- Kitchens: minimum ADF: 2%
- Living rooms and dining rooms: minimum ADF: 1.5%
- Bedrooms: minimum ADF: 1%

Detailed results are presented in Appendix C and include a column indicating if the units achieve at least 5% ADF; this value indicates when a space is particularly well lit.

The sky-line test has also been carried out for the same units.

The location and the numbering of the units is shown in Section 6 of this document.

Table 7 presents a summary of the daylight analysis results, in terms of daylight provision (Average Daylight Factor) and daylight distribution (View of the Sky). A total number of 324 rooms across the scheme have been assessed against the BRE criteria.

7.2.1 Average Daylight Factor

A total of 297 rooms pass the ADF criteria, which in terms of percentage corresponds to 92% of the tested spaces.

The achievement of this particularly good result has been possible by working closely with the architects. Multiple iterations have been run to find the best solution achieving acceptable lighting values and taking into account all the project related constraints.

The North Block consists in Community Facility and Commercial use at the ground floor level and 122 residential units above. The residential units are distributed into three sub-blocks as shown in Section 6 of this report.

There are 6 rooms in Block 1 that will fail the ADF criteria. From the first to the sixth floor, the bedroom of unit 1 will achieve .ca 0.7% not meeting the target of 1%. This is due to the combined effect of the balcony above, the presence of opposite existing buildings and to the shape of the room itself. Given that the opposite building is planned to be demolished, it is expected that daylight levels within

the room will improve, therefore achieving acceptable daylight levels.

Block 2 will have 11 rooms failing the DF criteria. The kitchen and the living room in unit 1 will fail on the first and second floor. This is due to the presence of the balcony above the main window and the fact that the window of the kitchen faces the other portion of the building. The room is also deep and needs to achieve 2%. For Unit 2, the living room at the first floor and the kitchens from the first to the fourth floor also fail the criteria. The reason of the failures are similar to the kitchen and living room of Unit one. Unit 2 is also located close to Block 3 and the window of the kitchen will be particularly affected by the corner. Units 3 and 4 will both see the kitchens not meeting the target.

The layout of these units has been tested comparing several options and the final layout is the result of the best compromise achieved with the design team. Although some of the kitchens fail, the illuminance levels have been maximised. In particular, the deck access has been reduced and reshaped, the window size of the kitchens has been increased and some glazed area has been provided above the main entrance door of the units.

The results for Block 3 show 10 out of 70 rooms failing the BRE criteria. At the first floor the kitchen and the living room of Units 1 and 2 do not meet the target because of the combined effect of the shape of the room and the presence of the South Block in front of the main window. The bedroom of unit 2 at the first floor will also fail, given the opposite South Block and the fact that there is a balcony above the window. The kitchen and living room of Unit 6 on the first, second and third floor will fail. The L shape of the room, the fact that there is a balcony above the two windows, the presence of opposite buildings and the higher target of the space (2%), are all factors that influence the result. Lastly, the two rooms in Unit 7 show that the target will not be met on the first and second floor. It is expected that in the following years there will be an improvement when the existing building at North will be demolished. Some strategies have also been adopted: the deck access, previously proposed, has been eliminated, the internal layout has been modified and the width and the depth of the balcony has been discussed with the design team.

Overall, most of the rooms will achieve good daylight levels. There will be seven 27 out of 297 rooms not achieving the minimum values recommended by BRE. Some of these failing spaces will improve their condition with the demolition of the existing buildings within the regeneration area.

The following figure shows the location of the failing rooms described above.

7.0 Daylight assessment

7.2 Assessment of the new development

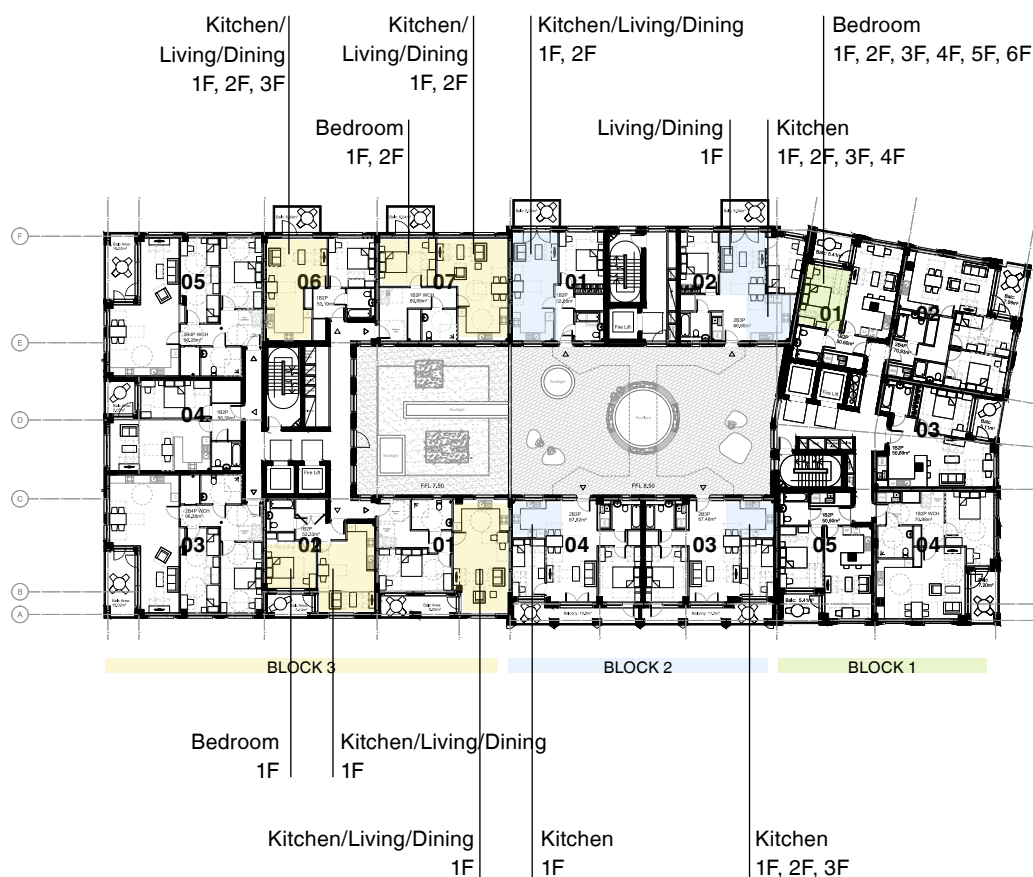


Figure 14: Location of rooms failing the DF criteria. This figure shows the First Floor plan which includes the wheelchair units as shown in Section 6. The floors above have a different configuration. The model that has been analyzed is based on the drawings provided on 28th March 2016, two weeks before the planning application. The design team has then changed the location of one of the wheelchair units. In particular, Unit 7 in Block 3 has been moved on the second floor above Unit 1. The failing rooms on the first and second floor of Unit 7 are not part of a wheelchair dwelling anymore.

7.2.2 No-Sky Line

The No-Sky Line divides the areas of the working plane which can receive direct skylight, from those which cannot. It is a measure of the distribution of daylight in a room. To achieve acceptable conditions, the BRE guide recommends that the view of the sky is met on at least 80% of the area.

A total of 33 rooms will not achieve this criterion.

6 spaces in Block 1, located on the lower floors of the Special Tower, do not pass the target. In particular, the kitchen and living room area of Unit 3 achieve less than 80% of view of the sky from the first to the fourth floor.

In Block 2 there are 12 failing rooms, 9 of them are kitchens located on the first three floors. The distance to the opposite facade of the building does not allow the light to be sufficiently distributed in these spaces. These results have been discussed from the very beginning of the project and given the high number of constrains, it has been decided to minimize the failure with the strategies described previously.

15 rooms in Block 3 fail, of which 8 are located on the first floor and the remainder are on the second floor. They fail because of opposite buildings and in most of the cases because they are deep rooms, in which case the distribution of the skylight can be difficult to achieve.

Overall, most of the rooms will achieve good values for this test. 86% of the spaces pass the criteria and 14% fail. As noted for the Average Daylight Factor calculation, it is expected that the units located at north and east will perform better following the demolition of the existing properties within the Aylesbury Estate Regeneration Scheme.

The following figures show the location of the failing rooms.

7.0 Daylight assessment

7.2 Assessment of the new development



Figure 15: Location of the rooms failing the No-Sky Line test on the First Floor.



Figure 16: Location of the rooms failing the No-Sky Line for the units above the First Floor

7.0 Daylight assessment

7.2 Assessment of the new development

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail
BLOCK 1	1F	B1-0101-Bedroom1	Bedroom	0.6%	1%	Fail	no	92%	8%	Pass
	1F	B1-0101-Kitchen Living Dining	Kitchen/Living/Dining	2.3%	2%	Pass	no	99%	1%	Pass
	1F	B1-0102-Bedroom1	Bedroom	3.3%	1%	Pass	no	76%	24%	Fail
	1F	B1-0102-Bedroom2	Bedroom	4.3%	1%	Pass	no	97%	3%	Pass
	1F	B1-0102-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass
	1F	B1-0103-Bedroom1	Bedroom	1.0%	1%	Pass	no	76%	24%	Fail
	1F	B1-0103-Kitchen Living Dining	Kitchen/Living/Dining	2.0%	2%	Pass	no	53%	47%	Fail
	1F	B1-0104-Bedroom1	Bedroom	4.3%	1%	Pass	no	95%	5%	Pass
	1F	B1-0104-Kitchen Living Dining	Kitchen/Living/Dining	4.7%	2%	Pass	no	100%	0%	Pass
	1F	B1-0105-Bedroom1	Bedroom	1.1%	1%	Pass	no	100%	0%	Pass
	1F	B1-0105-Kitchen Living Dining	Kitchen/Living/Dining	2.7%	2%	Pass	no	100%	0%	Pass
		11	11	Passing rooms	10		0	Passing rooms		8
2F	B1-0201-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
2F	B1-0201-Kitchen Living Dining	Kitchen/Living/Dining	2.4%	2%	Pass	no	100%	0%	Pass	
2F	B1-0202-Bedroom1	Bedroom	3.6%	1%	Pass	no	85%	15%	Pass	
2F	B1-0202-Bedroom2	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
2F	B1-0202-Kitchen Living Dining	Kitchen/Living/Dining	4.2%	2%	Pass	no	100%	0%	Pass	
2F	B1-0203-Bedroom1	Bedroom	1.3%	1%	Pass	no	98%	2%	Pass	
2F	B1-0203-Kitchen Living Dining	Kitchen/Living/Dining	2.2%	2%	Pass	no	59%	41%	Fail	
2F	B1-0204-Bedroom1	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
2F	B1-0204-Kitchen Living Dining	Kitchen/Living/Dining	5.0%	2%	Pass	yes	100%	0%	Pass	
2F	B1-0205-Bedroom1	Bedroom	1.2%	1%	Pass	no	100%	0%	Pass	
2F	B1-0205-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		1	Passing rooms		10
3F	B1-0301-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
3F	B1-0301-Kitchen Living Dining	Kitchen/Living/Dining	2.6%	2%	Pass	no	100%	0%	Pass	
3F	B1-0302-Bedroom1	Bedroom	3.8%	1%	Pass	no	98%	2%	Pass	
3F	B1-0302-Bedroom2	Bedroom	4.9%	1%	Pass	no	100%	0%	Pass	
3F	B1-0302-Kitchen Living Dining	Kitchen/Living/Dining	4.5%	2%	Pass	no	100%	0%	Pass	
3F	B1-0303-Bedroom1	Bedroom	1.6%	1%	Pass	no	100%	0%	Pass	
3F	B1-0303-Kitchen Living Dining	Kitchen/Living/Dining	2.3%	2%	Pass	no	64%	36%	Fail	
3F	B1-0304-Bedroom1	Bedroom	4.9%	1%	Pass	no	100%	0%	Pass	
3F	B1-0304-Kitchen Living Dining	Kitchen/Living/Dining	5.3%	2%	Pass	yes	100%	0%	Pass	
3F	B1-0305-Bedroom1	Bedroom	1.3%	1%	Pass	no	100%	0%	Pass	
3F	B1-0305-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		1	Passing rooms		10
4F	B1-0401-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
4F	B1-0401-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
4F	B1-0402-Bedroom1	Bedroom	4.1%	1%	Pass	no	100%	0%	Pass	
4F	B1-0402-Bedroom2	Bedroom	5.1%	1%	Pass	yes	100%	0%	Pass	
4F	B1-0402-Kitchen Living Dining	Kitchen/Living/Dining	4.9%	2%	Pass	no	100%	0%	Pass	
4F	B1-0403-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass	
4F	B1-0403-Kitchen Living Dining	Kitchen/Living/Dining	2.5%	2%	Pass	no	78%	22%	Fail	
4F	B1-0404-Bedroom1	Bedroom	5.2%	1%	Pass	yes	100%	0%	Pass	

Table 7: Daylight Assessment - Residential units in the North Block - Summary of the results

8.0 Sunlight assessment

8.1 Impact on existing surrounding properties

Sunlight is an important issue to consider for the quality of an internal space. The orientation of windows and the position of a building on a site will have an impact on the amount of sunlight this receives but will also have an effect on the sunlight neighbouring buildings receive. Unlike daylight, which is non-directional and assumes that light from the sky is uniform, the availability of sunlight is dependent on the orientation of the window or area of ground being assessed relative to the position of due south.

In accordance with the BRE Guide, only windows facing within 90 degrees of due south need to be assessed, therefore the windows of the following buildings have been analysed:

Building 2	Dawes Street
Building 3	Dawes Street
Building 5	Dawes Street
Building 7	Thurlow Street
Building 8	Thurlow Street

The results of the sunlight analysis are shown in full in Appendix .

Table 8 summarises the sunlight assessment for the surrounding existing properties.

The results indicate that most of the buildings surrounding the site will continue to receive adequate sunlight as defined by the BRE guidance.

271 windows pass the Percentage Sunlight Hours test: they will receive adequate sunlight hours during the full year (25% of sunlight hours) and during the winter period (5% of sunlight hours).

When windows fail the APSH test, the comparison with the existing situation is needed to understand the amount of losses (negative impact) or possible gains (positive impact) achieved after the development. The comparison test has been undertaken for all the windows, including those achieving the APSH criteria.

Buildings 2, 3 and 5 will not be negatively affected by Plot 18.

Building 7 will have 14 windows adversely affected due the Special Tower that will be built in front of it. However, these windows are part of the building which is planned to be demolished in the following phases of Aylesbury Estate Regeneration Scheme.

Building 8 has been sub-divided into three blocks. 70 windows in Blocks 8A and 8B will not achieve the sunlight levels required by BRE. Most of these openings are located below deep and continuous balconies.

Balconies and overhangs above an existing window tend to block sunlight, especially in summer. Even a modest obstruction opposite may result in a large relative impact on the sunlight received. As the BRE guide 'Site layout planning for daylight and sunlight' states:

One way to demonstrate this would be to carry out an additional calculation of the APSH, for both the existing and proposed situations, without the balcony in place. For example, if the proposed APSH with the balcony was under 0.8 times the existing value with the balcony, but the same ratio for the values without the balcony was well over 0.8, this would show that the presence of the balcony, rather than the size of the new obstruction, was the main factor in the relative loss of sunlight.

Building 8 is also part of the Aylesbury Estate Regeneration Scheme. As a result of this, it is likely that the building will be demolished and the impact of all the windows can therefore be considered as negligible.

In sum, the sunlight assessment shows that most of the analysed windows will receive adequate APSH values, in accordance with the recommendations set by the BRE Guide.

There are 271 windows passing the sunlight criteria, equal to 76% of the total number of openings. 84 out of 355 windows fail the test. These are located in two buildings which are both part of the Aylesbury Estate Regeneration Scheme and they will be demolished as long as the scheme will go ahead. It can be concluded that there will be no negative impact on site following the construction of Plot 18.

8.0 Sunlight assessment

8.1 Impact on existing surrounding properties

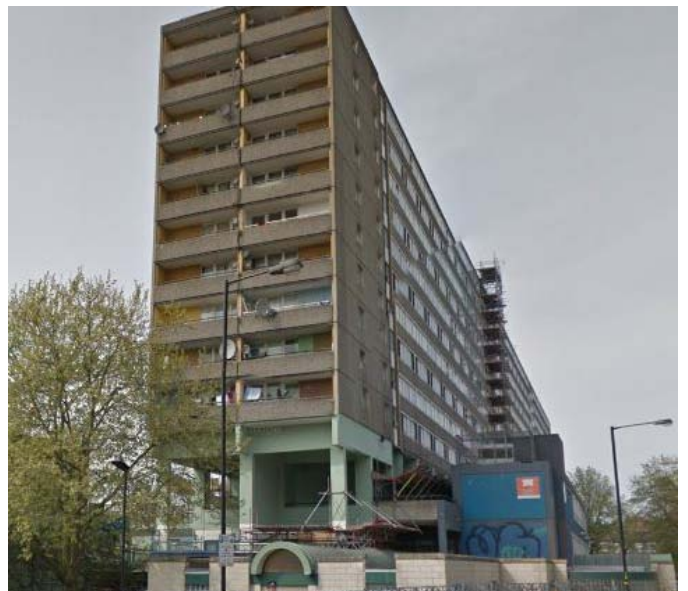
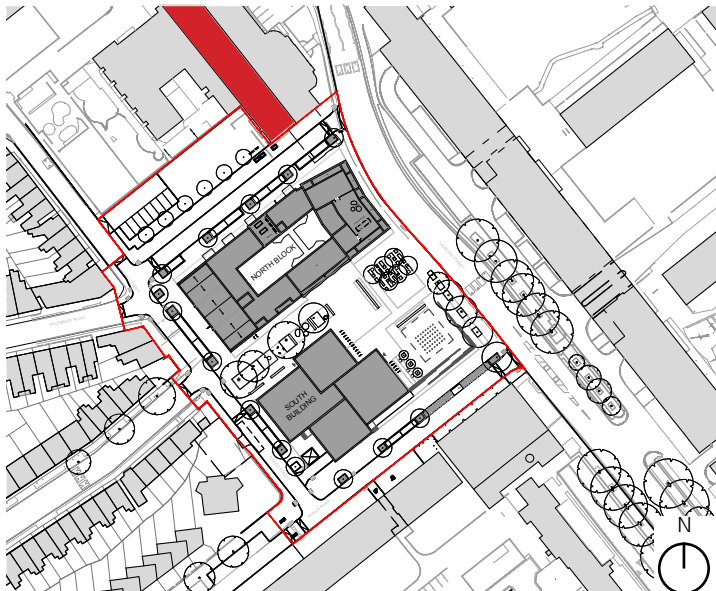
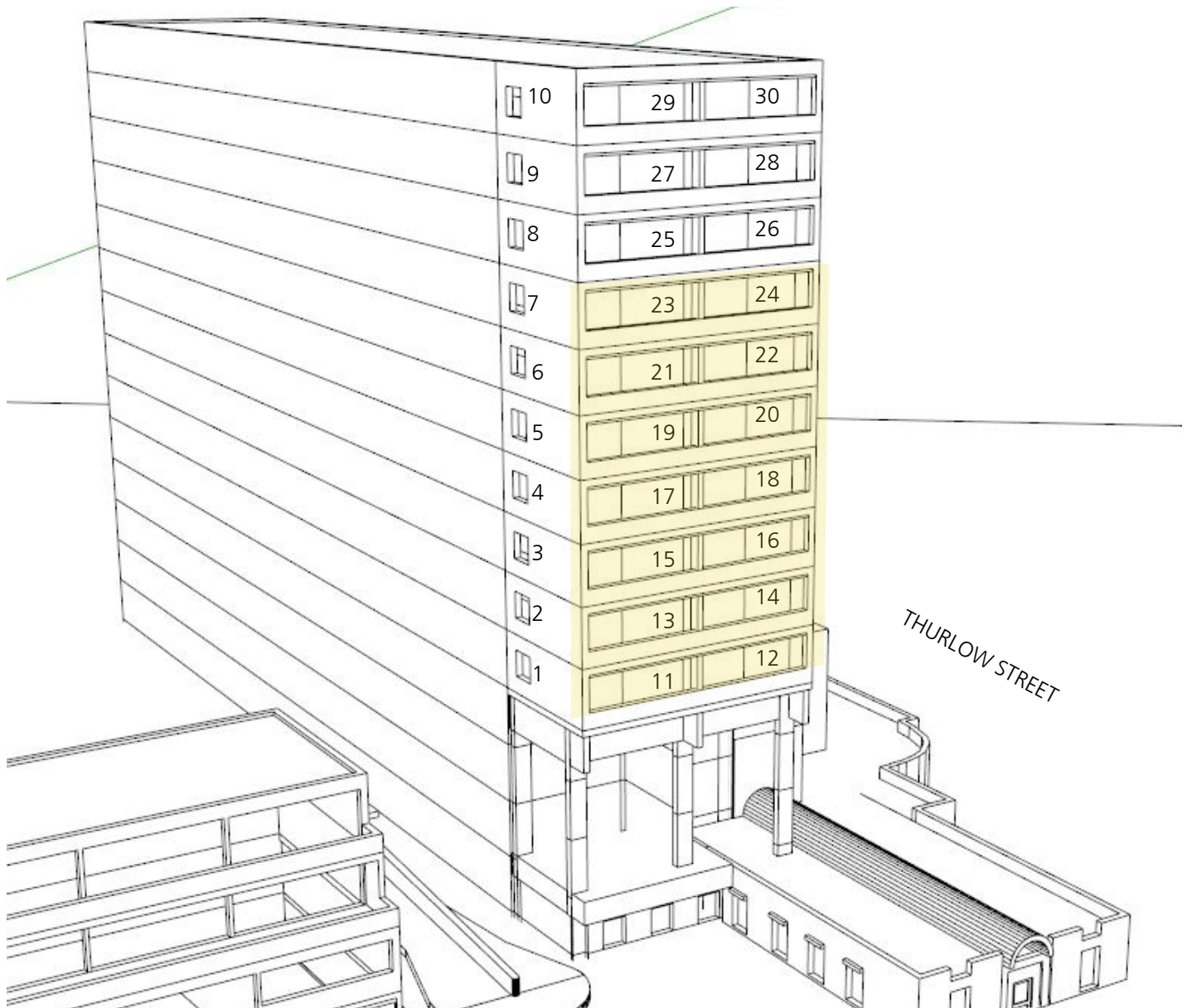
		Analysed windows		Number of passing windows		Number of failing windows		
Building 2	GF	4	4	100%	0	0%		
	1F	4	4	100%	0	0%		
	Total	8	8	100%	0	0%		
Building 3	GF	3	3	100%	0	0%		
	1F	5	5	100%	0	0%		
	Total	8	8	100%	0	0%		
Building 5	GF	4	4	100%	0	0%		
	1F	5	5	100%	0	0%		
	2F	5	5	100%	0	0%		
	Total	14	14	100%	0	0%		
Building 7	GF	3	1	33%	2	67%		
	1F	3	1	33%	2	67%		
	2F	3	1	33%	2	67%		
	3F	3	1	33%	2	67%		
	4F	3	1	33%	2	67%		
	5F	3	1	33%	2	67%		
	6F	3	1	33%	2	67%		
	7F	3	3	100%	0	0%		
	8F	3	3	100%	0	0%		
	9F	3	3	100%	0	0%		
	Total	30	16	53%	14	47%		
Building 8	8A	GF	9	9	100%	0	0%	
		1F	10	10	100%	0	0%	
		2F	10	1	10%	9	90%	
		3F	12	1	8%	11	92%	
		4F	12	12	100%	0	0%	
		5F	12	1	8%	11	92%	
		6F	12	1	8%	11	92%	
		8F	12	1	8%	11	92%	
	Total	101	48	48%	53	52%		
	8B	GF	10	10	100%	0	0%	
		1F	11	11	100%	0	0%	
		2F	11	7	64%	4	36%	
		3F	12	8	67%	4	33%	
		4F	12	12	100%	0	0%	
		5F	12	9	75%	3	25%	
6F		12	9	75%	3	25%		
8F		12	12	100%	0	0%		
Total	104	87	84%	17	16%			
8C	GF	10	10	100%	0	0%		
	1F	10	10	100%	0	0%		
	2F	10	10	100%	0	0%		
	3F	10	10	100%	0	0%		
	4F	10	10	100%	0	0%		
	5F	10	10	100%	0	0%		
	6F	10	10	100%	0	0%		
	8F	10	10	100%	0	0%		
Total	90	90	100%	0	0%			
		355	271	76%	84	24%		

Table 8: Sunlight Assessment - Impact on the existing properties - Summary of the results

8.0 Sunlight assessment

8.1 Impact on existing surrounding properties

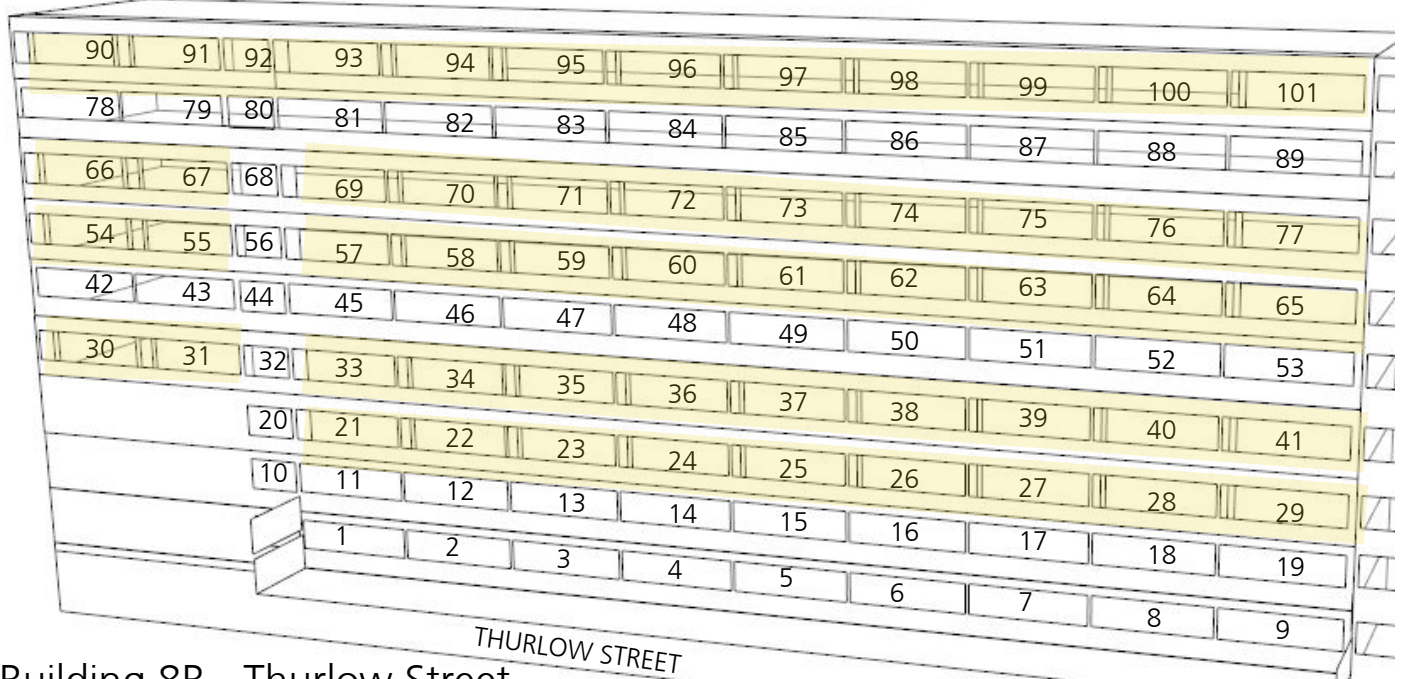
Building 7 - Thurlow Street



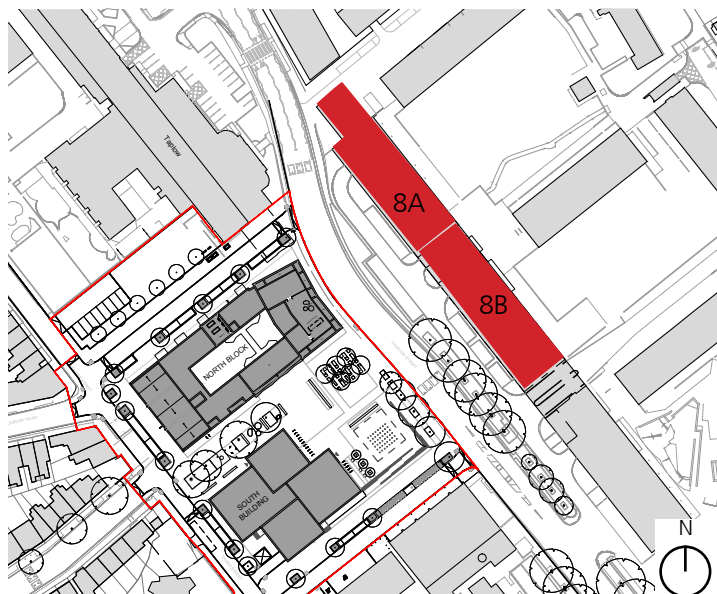
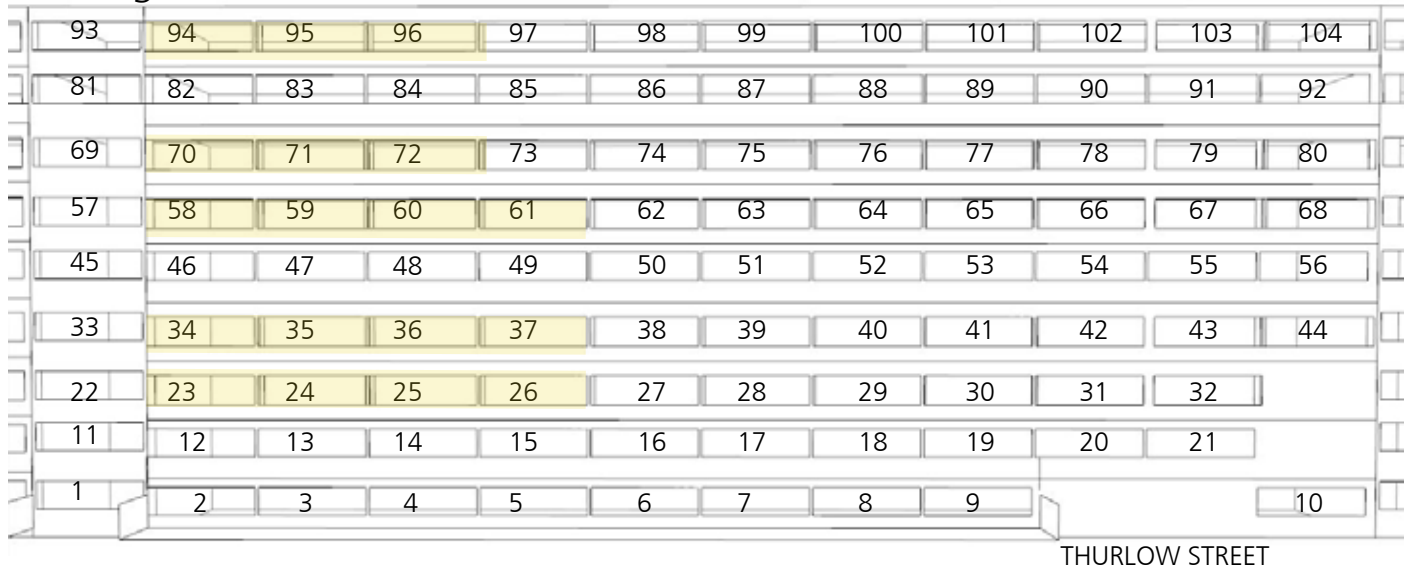
8.0 Sunlight assessment

8.1 Impact on existing surrounding properties

Building 8A - Thurlow Street



Building 8B - Thurlow Street



8.0 Sunlight assessment

8.2 Assessment of the new development

The main requirement for sunlight in houses is in living rooms, where it is valued at any time day but especially in the afternoon. Where possible these should have at least one window that faces 90° of due south.

As sunlight provision depends highly on the units' orientation, for a development of this size, BRE recognize that not all living areas will achieve compliance due to orientation constrains. Therefore, the BRE guidance applies mainly to South facing living rooms, as rooms that face significantly north of due east or west are unlikely to meet the BRE standards.

A total of 117 living rooms that have at least a window facing due South were assessed. Table 9 summarises the performance of the assessed units. Detailed results can be found in Appendix D.

The Sunlight Assessment shows that all the rooms that have been tested achieve the APSH target.

		Analysed windows	Number of passing windows		Number of failing windows	
Block 1	1F	4	4	100%	0	0%
	2F	4	4	100%	0	0%
	3F	4	4	100%	0	0%
	4F	4	4	100%	0	0%
	5F	4	4	100%	0	0%
	6F	4	4	100%	0	0%
	7F	4	4	100%	0	0%
	8F	4	4	100%	0	0%
	9F	4	4	100%	0	0%
	10F	4	4	100%	0	0%
	11F	4	4	100%	0	0%
	12F	4	4	100%	0	0%
	13F	4	4	100%	0	0%
	14F	4	4	100%	0	0%
	Total	56	56	100%	0	0%
Block 2	1F	4	4	100%	0	0%
	2F	4	4	100%	0	0%
	3F	4	4	100%	0	0%
	4F	4	4	100%	0	0%
	5F	4	4	100%	0	0%
	6F	4	4	100%	0	0%
	Total	24	24	100%	0	0%
Block 3	1F	10	10	100%	0	0%
	2F	10	10	100%	0	0%
	3F	7	7	100%	0	0%
	4F	5	5	100%	0	0%
	5F	5	5	100%	0	0%
	Total	37	37	100%	0	0%
		117	117	100%	0	0%

Table 9: Sunlight Assessment - Residential units in the North Block - Summary of the results

9.0 Overshadowing assessment

9.1 Impact on existing surrounding buildings

The recommendations set out in the BRE guide explain how to ensure that spaces between buildings are not permanently in shade for a large part of the year.

Fences over 1.5 m tall are also factored into the calculations. The external spaces which have been assessed are shown in the following pages.

Table 10 below summarises the results of the Sunlight Assessment on the external areas.

The analysis shows that most of the amenity spaces achieve good levels of sunlight after the development without significant changes to the current situation.

There is only one external area which will be adversely affected by Plot 18: Space 1.

The current situation consists in a staircase which gets access to one of the properties included in the Aylesbury Estate Regeneration Scheme.

The area is within the Liverpool Grove Conservation Area as shown in figure below. Initial calculations were carried out spotting the most critical points of the development. Special attention was paid to the design of the elevations and height of the Subplot 18b façade directly facing this area.

Residents have also been informed and the shadow range analysis has been shown to them.

The following pages show the results of the analysis along with the location of each analysed space.

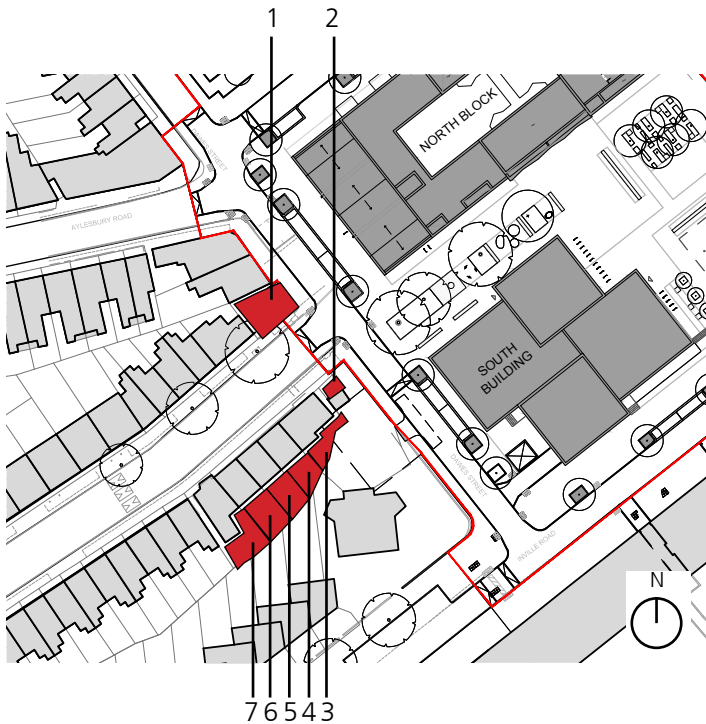


Figure 17 - Location of the analysed spaces

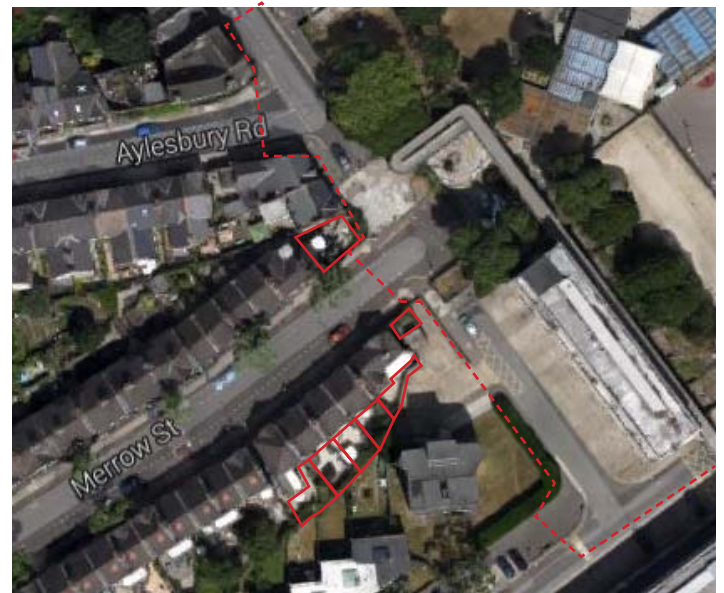


Figure 18 - Site map

Type of space	Existing condition		Proposed condition		Difference	Condition
	21 st March	21 st June	21 st March	21 st June		
	Area with at least 2 hours of sun (%)	Area with at least 2 hours of sun (%)	Area with at least 2 hours of sun (%)	Area with at least 2 hours of sun (%)		
External space 1	87.58%	100%	3.16%	61.15%	96%	Fail
External space 2	0.00%	22%	0.00%	17.27%	0%	Pass
External space 3	36.17%	100%	34.87%	100.00%	3.6%	Pass
External space 4	47.10%	100%	43.59%	100.00%	7.4%	Pass
External space 5	47.25%	100%	45.17%	100.00%	4.4%	Pass
External space 6	48.10%	100%	53.41%	100.00%	-11.0%	Pass
External space 7	53.84%	100%	57.28%	100.00%	-6.4%	Pass
					Passing spaces	6

Table 10: Sunlight Assessment - Impact on the external amenity spaces - Summary of the results

9.0 Overshadowing assessment

9.1 Impact on existing surrounding buildings

21st March

Colours in images 19 and 20 below show the areas which receive at least two hours of sun on 21st March

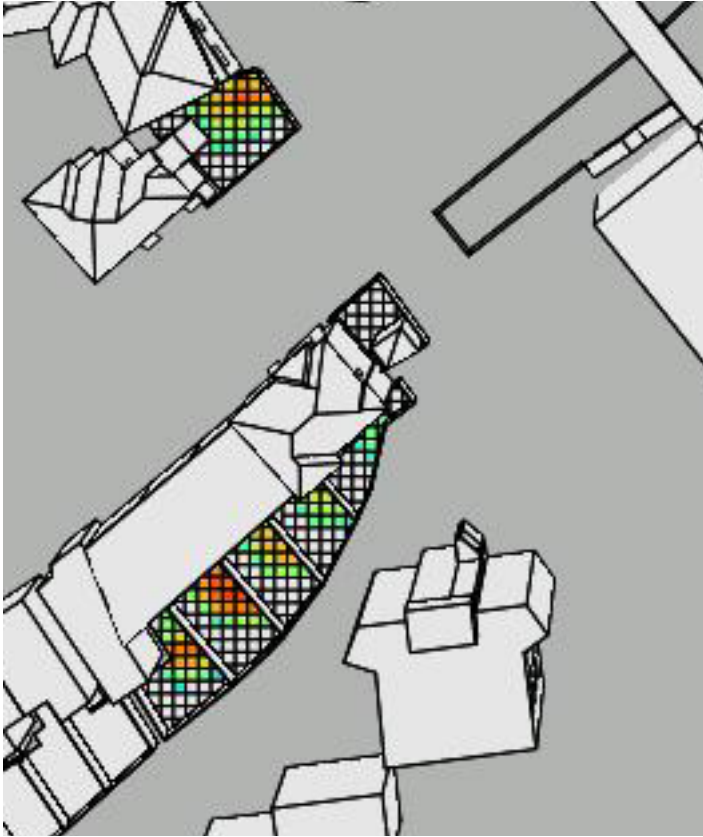


Figure 19 - Existing scenario - 21 March

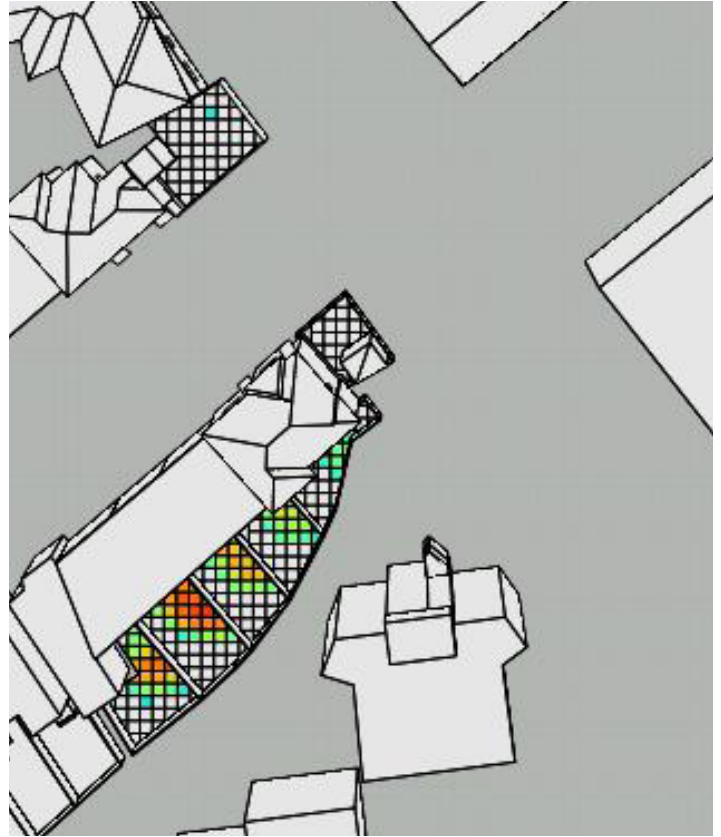


Figure 20 - Proposed scenario - 21 March

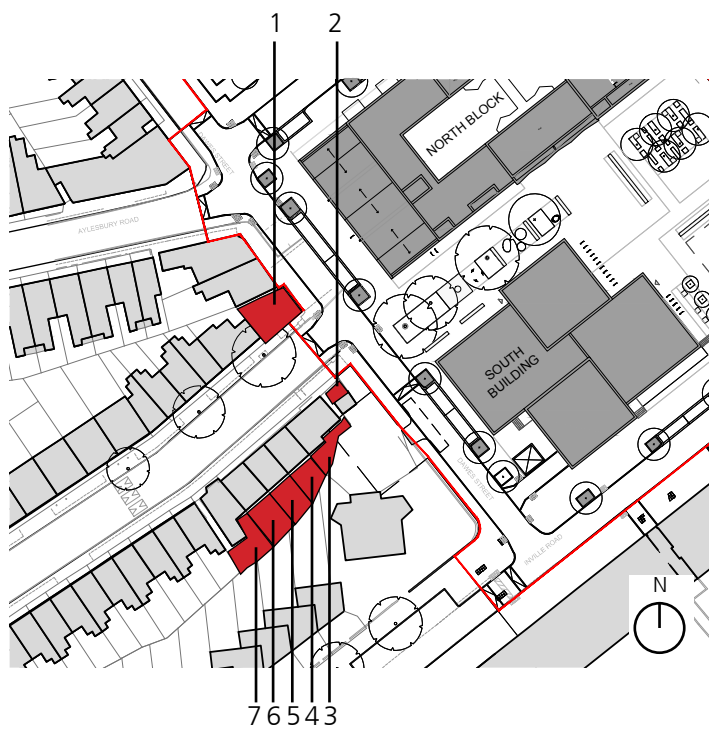


Figure 21 - Location of the analysed spaces

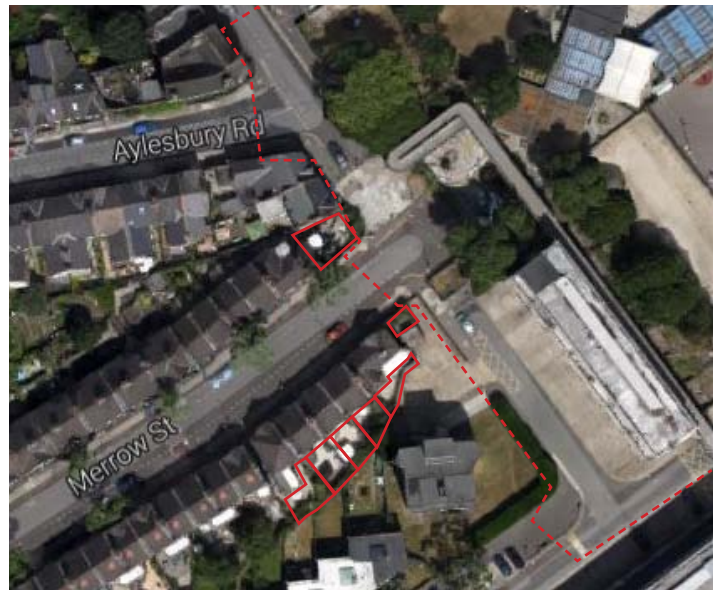


Figure 22 - Site map

9.0 Overshadowing assessment

9.1 Impact on existing surrounding buildings

21st June

Colours in images 23 and 24 below show the areas which receive at least two hours of sun on 21st June

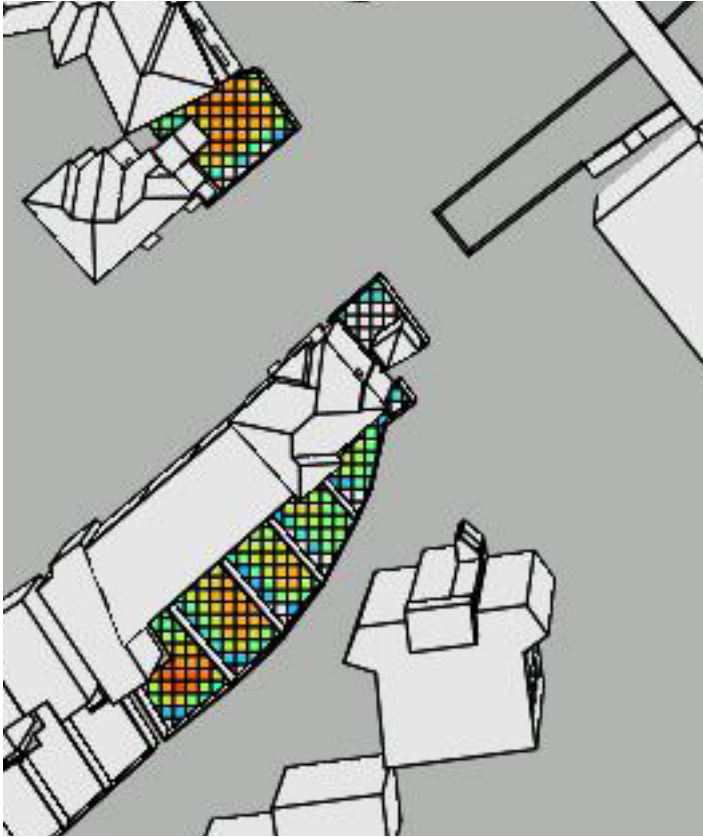


Figure 23 - Existing scenario - 21 June

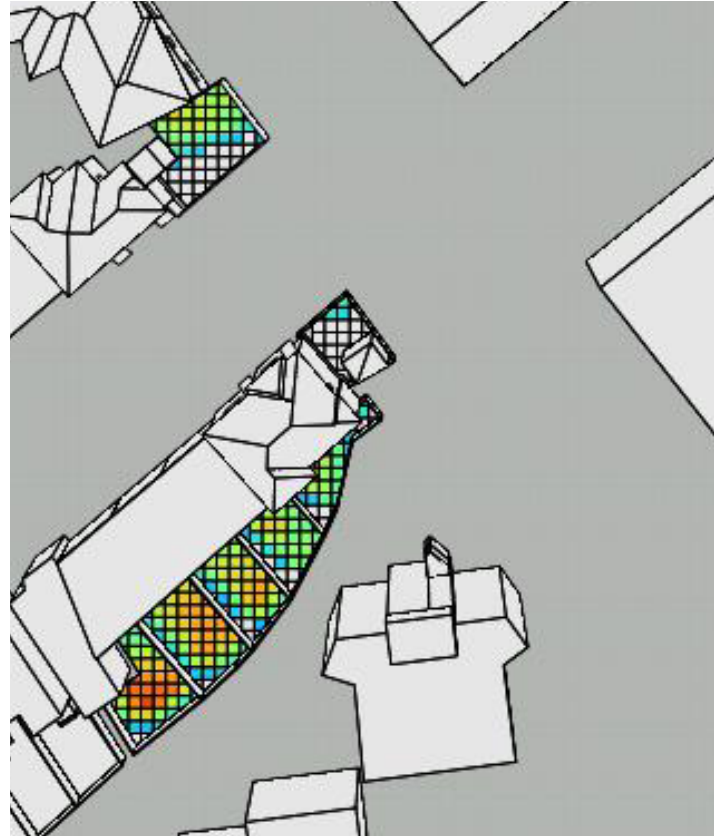


Figure 24 - Proposed scenario - 21 June

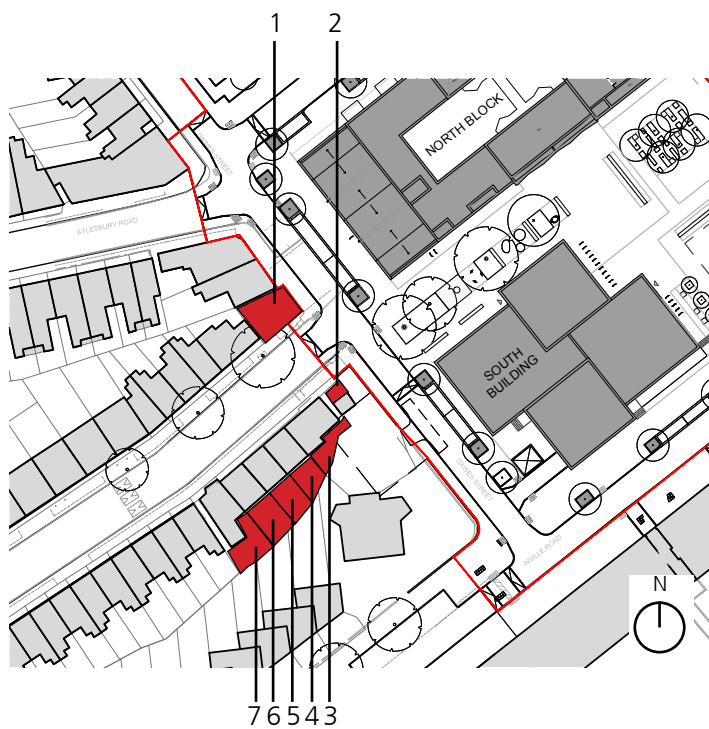


Figure 25 - Location of the analysed spaces



Figure 26 - Site map

9.0 Overshadowing assessment

9.2 Assessment of the new development

A Sunlight Assessment has been undertaken for Aylesbury Square. Initial analyses were carried out at to inform the landscape architects and the design team of the North Block and the South Block.

The area achieves very good sunlight levels throughout the year.

The space in front of the Special Tower was found particularly adequate for sitting, therefore an appropriate space has been located as shown in figure below.

Section 6 of the DAS document describes the architectural decisions for Aylesbury Square.

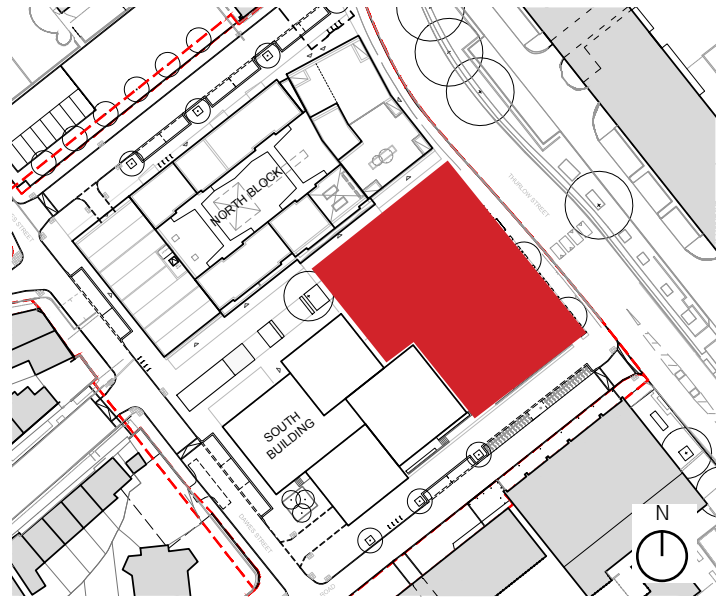


Figure 27 - Aylesbury Square



Figure 28 - Aylesbury Square - Illustrative Plan

10.0 Conclusions

A Daylight, Sunlight and Overshadowing Assessment has been undertaken by HTA Design LLP, gauging the likely impact of the development on the surrounding buildings and within the development.

During the demolition and construction phases, there are not expected to be significant impacts.

When Plot 18 will be constructed, the results of the impact on the surrounding buildings shows that the majority of the properties will not be adversely affected by the development.

Because of the importance of the impact of the new development in terms of daylight, the comparison of the existing situation with the new one has been analysed even though the VSC on the existing buildings with the new Development in place complies with the requirements - VSC of at least 27%.

The results indicate that most of the windows - 378 windows out of 486 - surrounding the site will continue to receive adequate daylight as defined by the BRE guidance. The remainder will be mostly located in buildings which are part of the Aylesbury Estate Regeneration Scheme. There are only 8 failing windows located in the building opposite to the North Block in Dawes Street, which is part of the Liverpool Grove Conservation Area. This is due to the fact the currently there is no building opposite to it. These windows are mostly part of commercial units and therefore the impact can be considered as negligible.

A Daylight Assessment has been undertaken for the residential units in the North Block. All the units - rather than representative units - have been analysed.

Following the methodology described in section 5.2 - Assessment within the new buildings - the Average Daylight Factor (ADF) analysis has been undertaken.

Most of the rooms will achieve good daylight levels. There will be seven 27 out of 297 rooms not achieving the minimum values recommended by BRE. The remaining rooms, which represent 92% of total number of tested spaces, will pass the criteria. Some of these failing spaces will improve their condition with the demolition of the existing buildings within the regeneration area.

The Sunlight analysis has been undertaken to assess the impact of Plot 18 on the surroundings.

There are 271 windows passing the sunlight criteria, equal to 76% of the total number of openings. 84 out of 355 windows fail the test. These are located in two buildings which are both part of the Aylesbury Estate Regeneration Scheme and they will be demolished as long as the scheme will go ahead. It can be concluded that there will be no negative impact on the site following the construction of Plot 18.

The Sunlight Assessment has been also carried out for the dwelling within Plot 18. Only the main living rooms facing 90 degrees of due South have been analysed.

The analysis shows that all the rooms will pass the APSH criteria.

Sunlight levels on the existing external spaces have been calculated to assess if there is any impact following the construction of Plot 18.

Only one external area will be adversely affected by Plot 18.

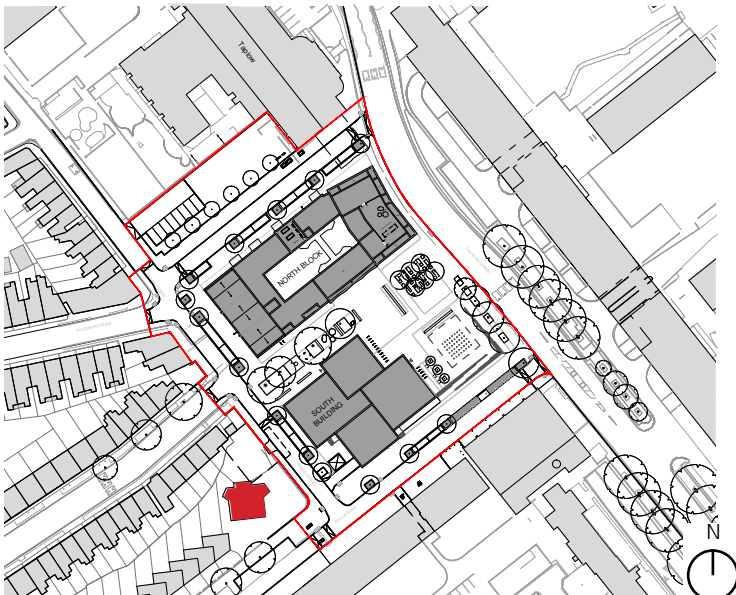
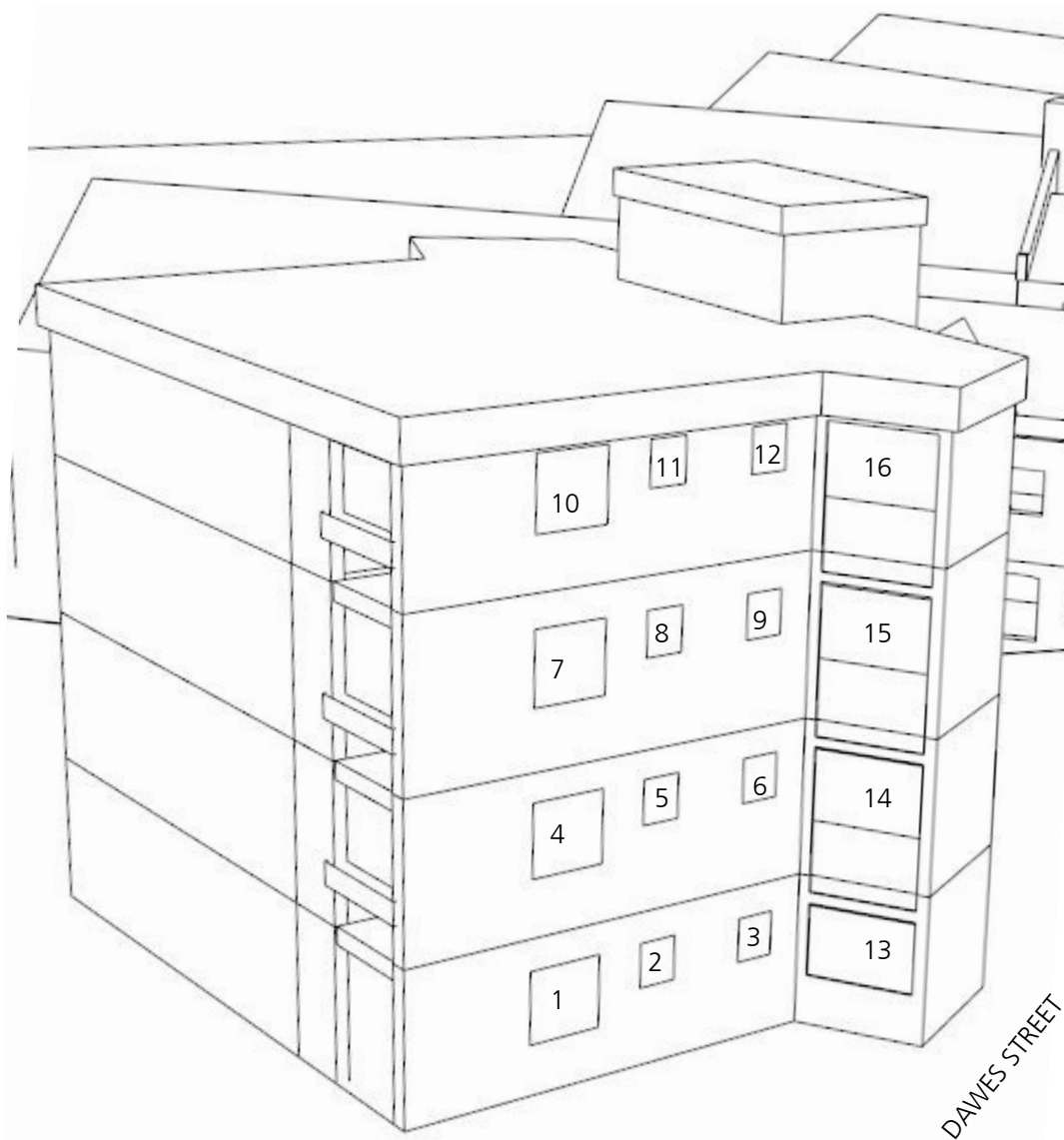
The space is within the Liverpool Grove Conservation Area as shown on figure below. Initial calculations were carried out spotting the most critical points of the development. Special attention was paid on the design of the elevations and height of Subplot 18b façade directly facing this area. Given the nature of the space and of the proposed development, and the fact that a new street and a new sky-line will be proposed in front of the building improving the quality of site, this failure can be considered as acceptable.

The Sunlight calculations were carried out for Aylesbury Square. The space achieves very good results throughout the year and the values were shared with the landscape team to guide their decisions.

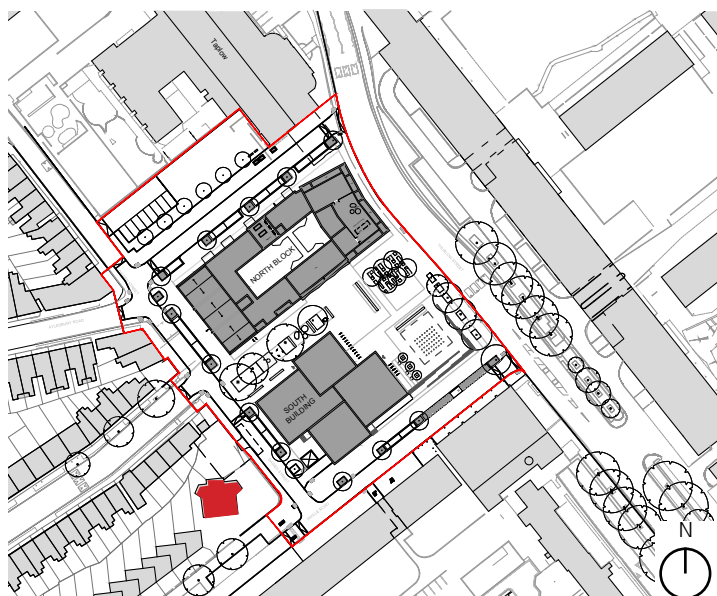
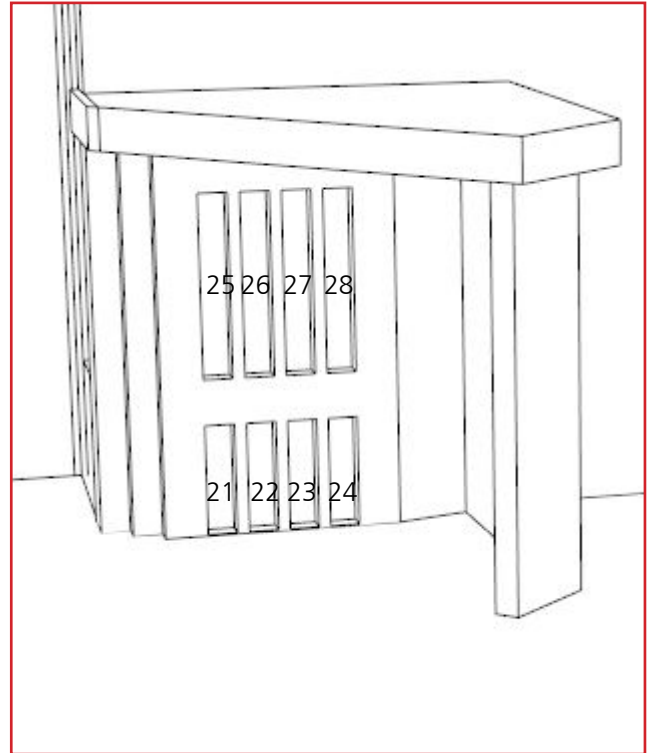
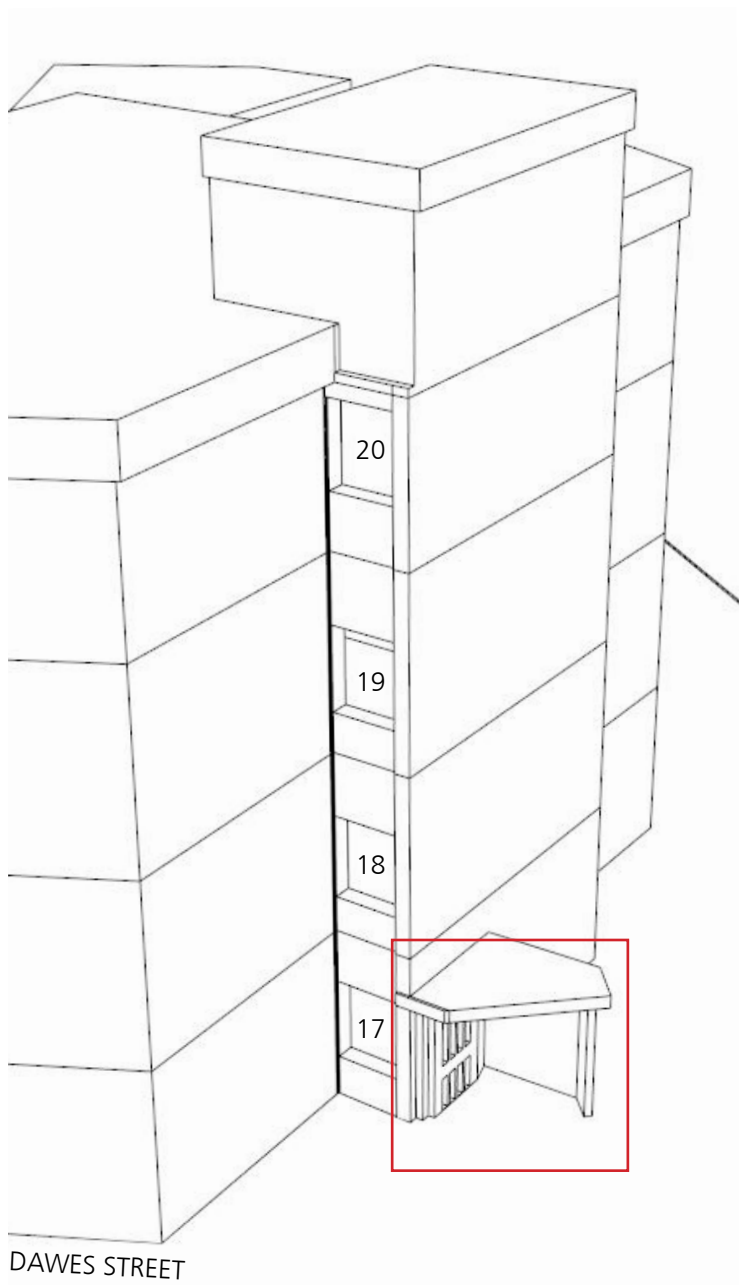
Appendix A

Detailed Daylight/Sunlight results - Impact on the surrounding buildings

Building 1 - Dawes Street - Chadwell House



Building 1 - Dawes Street - Chadwell House

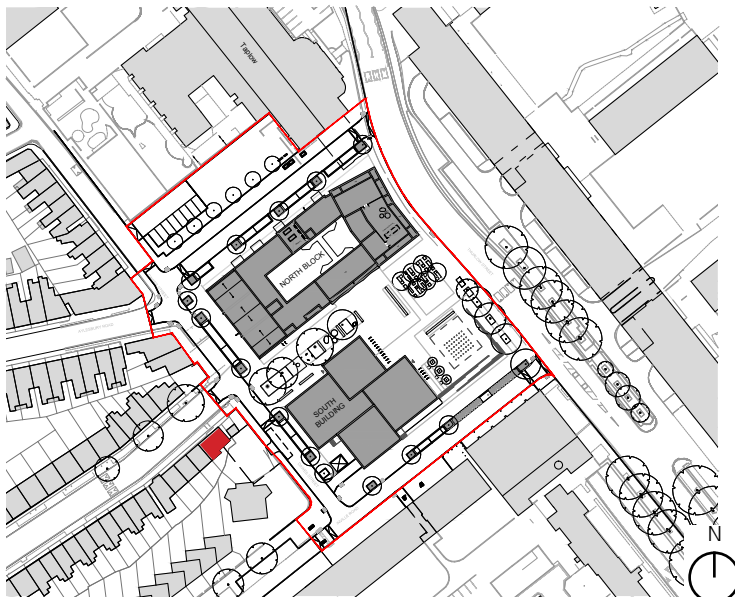
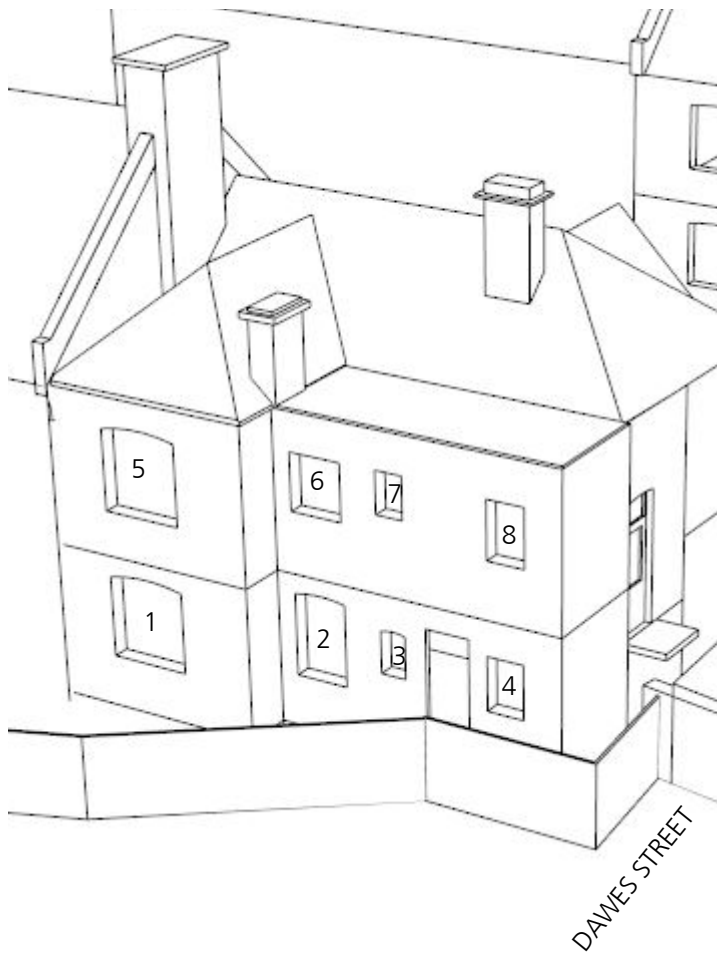


Building 1 - Dawes Street - Chadwell House

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 1 - Dawes Street - Chadwell House					
GF	1	29.26	30.11	2.9%	Pass
GF	2	29.28	29.65	1.3%	Pass
GF	3	28.27	28.96	2.4%	Pass
GF	13	26.28	26.94	2.5%	Pass
GF	17	15.96	15.15	-5.1%	Pass
GF	21	20.22	18.55	-8.3%	Pass
GF	22	18.82	17.12	-9.0%	Pass
GF	23	16.42	14.69	-10.5%	Pass
GF	24	14.54	12.77	-12.2%	Pass
GF	25	14.37	12.65	-12.0%	Pass
GF	26	11.73	9.59	-18.2%	Pass
GF	27	9.65	7.75	-19.7%	Pass
GF	28	7.12	5.88	-17.4%	Pass
	13	Passing windows			13
1F	4	33.19	31.91	-3.9%	Pass
1F	5	31.98	31.44	-1.7%	Pass
1F	6	29.61	30.75	3.9%	Pass
1F	14	28.44	28.87	1.5%	Pass
1F	18	17.75	16.43	-7.4%	Pass
	5	Passing windows			5
2F	7	35.92	34.55	-3.8%	Pass
2F	8	35.18	33.84	-3.8%	Pass
2F	9	31.52	31.52	0.0%	Pass
2F	15	31.18	31.18	0.0%	Pass
2F	19	19.28	17.76	-7.9%	Pass
	5	Passing windows			5
3F	10	37.53	36.93	-1.6%	Pass
3F	11	37.26	36.22	-2.8%	Pass
3F	12	34.8	33.21	-4.6%	Pass
3F	16	35.09	35.32	35.1%	Pass
3F	20	21.85	20.33	-7.0%	Pass
	5	Passing windows			5
Number of passing windows					28

Building 2 - Dawes Street



Building 2 - Dawes Street - Chadwell House

DAYLIGHT

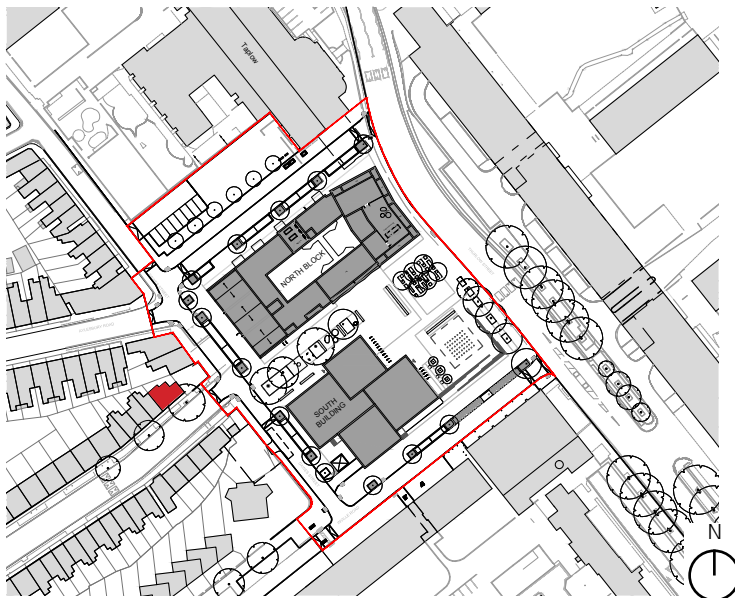
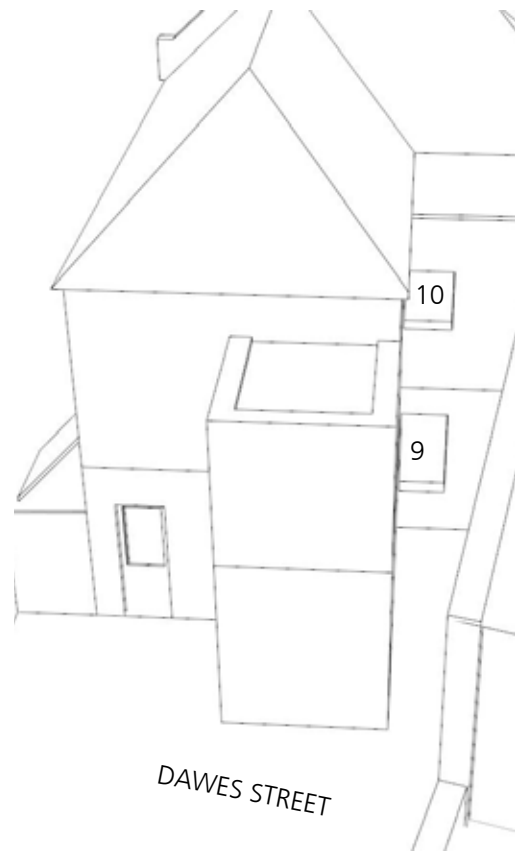
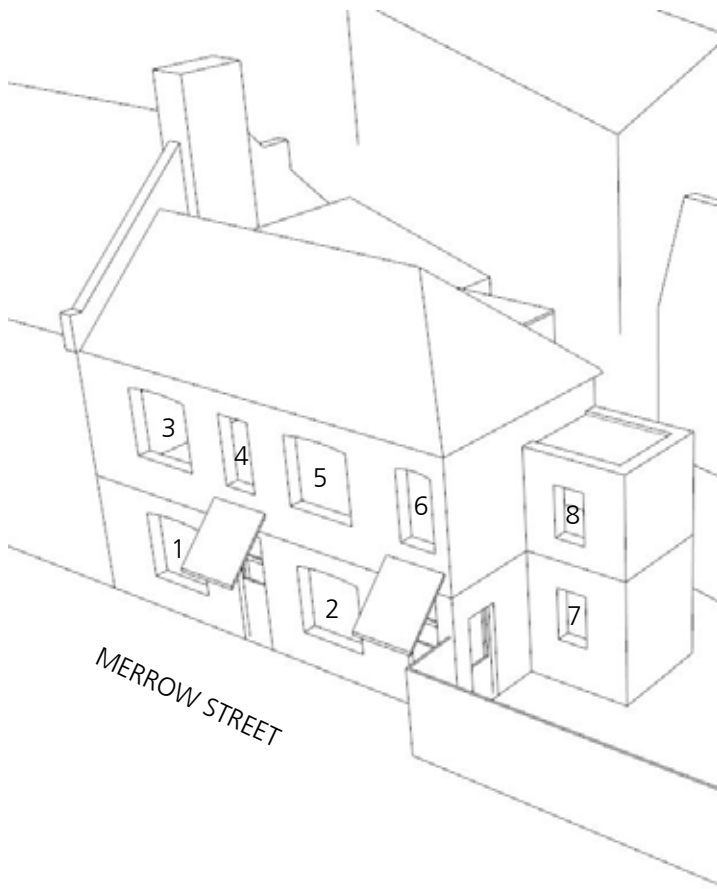
Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 2 - Dawes Street					
GF	1	25.18	24.91	-1.1%	Pass
GF	2	20.3	20.62	1.6%	Pass
GF	3	25.22	25.45	0.9%	Pass
GF	4	26.98	27.32	1.3%	Pass
GF	10	33.79	32.85	-2.8%	Pass
GF	11	34.22	33.08	-3.3%	Pass
	6	Passing windows			6
1F	5	28.2	27.66	-1.9%	Pass
1F	6	22.82	22.2	-2.7%	Pass
1F	7	28.82	28	-2.8%	Pass
1F	8	29.78	30.1	1.1%	Pass
1F	9	32.02	28.66	-10.5%	Pass
1F	12	29.24	28.63	-2.1%	Pass
1F	13	35.29	34.23	-3.0%	Pass
1F	14	31.04	31.45	1.3%	Pass
1F	15	35.58	34.83	-2.1%	Pass
	9	Passing windows			9
Number of passing windows					15

Building 2 - Dawes Street - Chadwell House

SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
Building 2 - Dawes Street												
			Proposed condition			Existing condition						
GF	1	SE	44.76%	41.35%	Pass	45.38%	-1.4%	Pass	41.35%	0.0%	Pass	Pass
GF	2	SE	25.03%	8.85%	Pass	24.98%	0.2%	Pass	8.85%	0.0%	Pass	Pass
GF	3	SE	35.56%	25.22%	Pass	35.31%	0.7%	Pass	25.27%	-0.2%	Pass	Pass
GF	4	SE	40.95%	35.16%	Pass	47.12%	-13.1%	Pass	41.17%	-14.6%	Pass	Pass
	4		Passing windows			Passing windows						4
1F	5	SE	47.96%	47.10%	Pass	47.47%	1.0%	Pass	45.28%	4.0%	Pass	Pass
1F	6	SE	30.20%	15.93%	Pass	29.51%	2.3%	Pass	14.12%	12.8%	Pass	Pass
1F	7	SE	41.66%	30.73%	Pass	40.97%	1.7%	Pass	28.91%	6.3%	Pass	Pass
1F	8	SE	46.66%	41.17%	Pass	47.13%	-1.0%	Pass	41.17%	0.0%	Pass	Pass
	4		Passing windows			Passing windows						4
Building 1 - Number of passing windows												8

Building 3 - Dawes Street - Chadwell House



Building 3 - Dawes Street - Chadwell House

DAYLIGHT

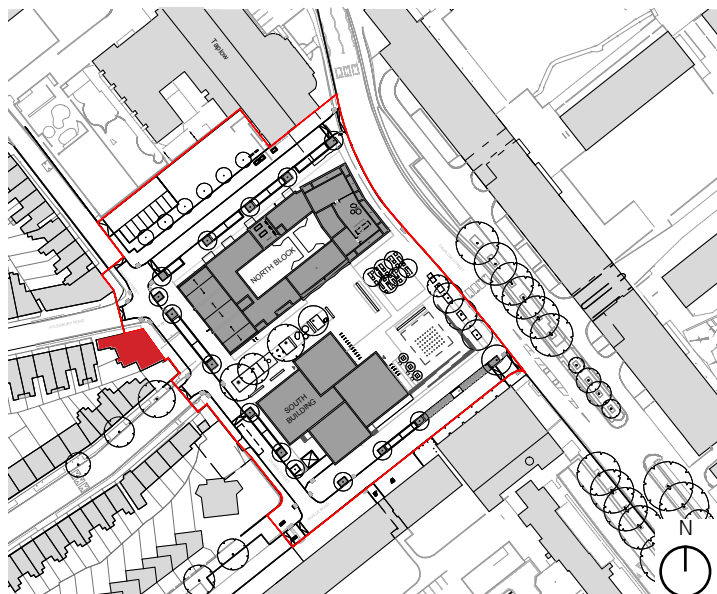
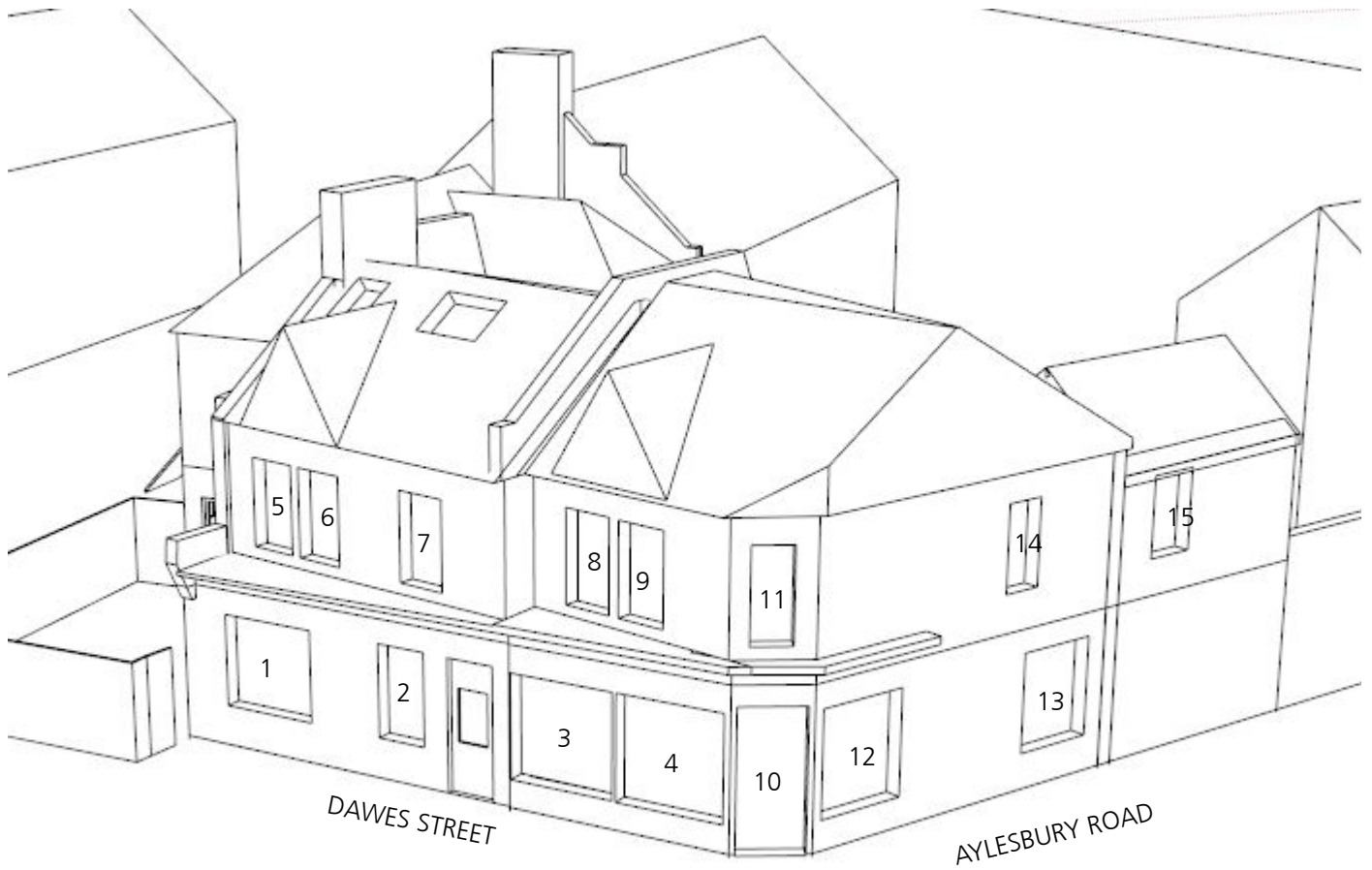
Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 3 - Dawes Street					
GF	1	32.12	32.59	1.5%	Pass
GF	2	31.91	31.1	-2.5%	Pass
GF	7	23.7	23.05	-2.7%	Pass
GF	9	8.48	7.07	-16.6%	Pass
	4	Passing windows			4
1F	3	33.4	35.37	5.9%	Pass
1F	4	35.93	35.53	-1.1%	Pass
1F	5	35.83	34.99	-2.3%	Pass
1F	6	35.98	34.98	-2.8%	Pass
1F	8	26.21	25.72	-1.9%	Pass
1F	10	15.63	14.08	-9.9%	Pass
	6	Passing windows			6
Number of passing windows					10

Building 3 - Dawes Street - Chadwell House

SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
Building 3 - Dawes Street												
			Proposed condition			Existing condition						
GF	1	SE	57.20%	65.52%	Pass	58.00%	-1.4%	Pass	65.52%	0.0%	Pass	Pass
GF	2	SE	54.69%	54.69%	Pass	41.15%	32.9%	Pass	54.69%	0.0%	Pass	Pass
GF	7	SE	28.30%	19.03%	Pass	29.69%	-4.7%	Pass	19.03%	0.0%	Pass	Pass
	3		Passing windows			Passing windows						3
1F	3	SE	59.45%	71.87%	Pass	59.84%	-0.7%	Pass	71.04%	1.2%	Pass	Pass
1F	4	SE	59.45%	72.05%	Pass	59.74%	-0.5%	Pass	41.00%	75.7%	Pass	Pass
1F	5	SE	58.48%	71.41%	Pass	59.95%	-2.5%	Pass	71.41%	0.0%	Pass	Pass
1F	6	SE	57.75%	72.23%	Pass	58.83%	-1.8%	Pass	70.41%	2.6%	Pass	Pass
1F	8	SE	34.05%	27.50%	Pass	34.35%	-0.9%	Pass	25.68%	7.1%	Pass	Pass
	5		Passing windows			Passing windows						5
Building 1 - Number of passing windows												8

Building 4 - Dawes Street

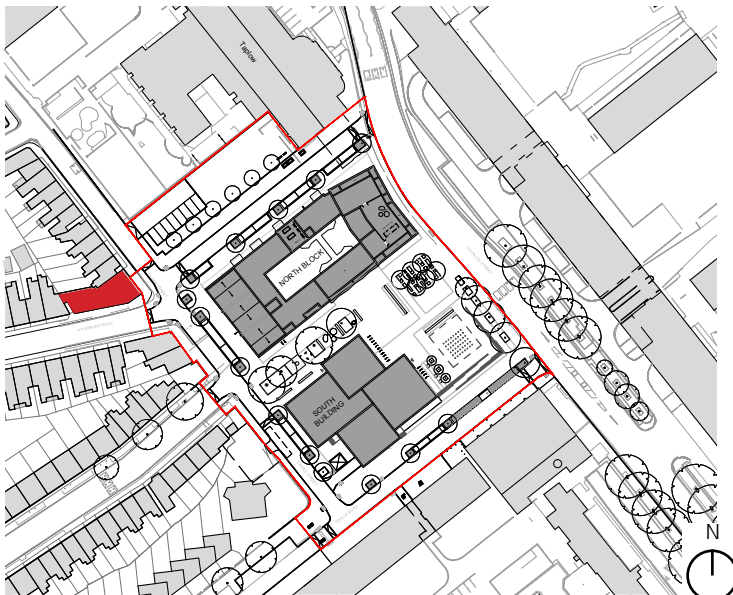
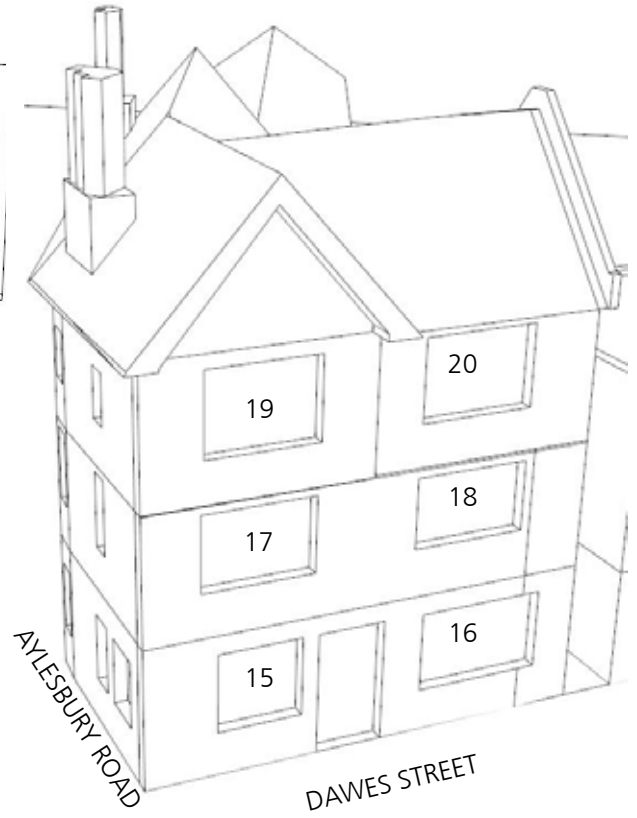
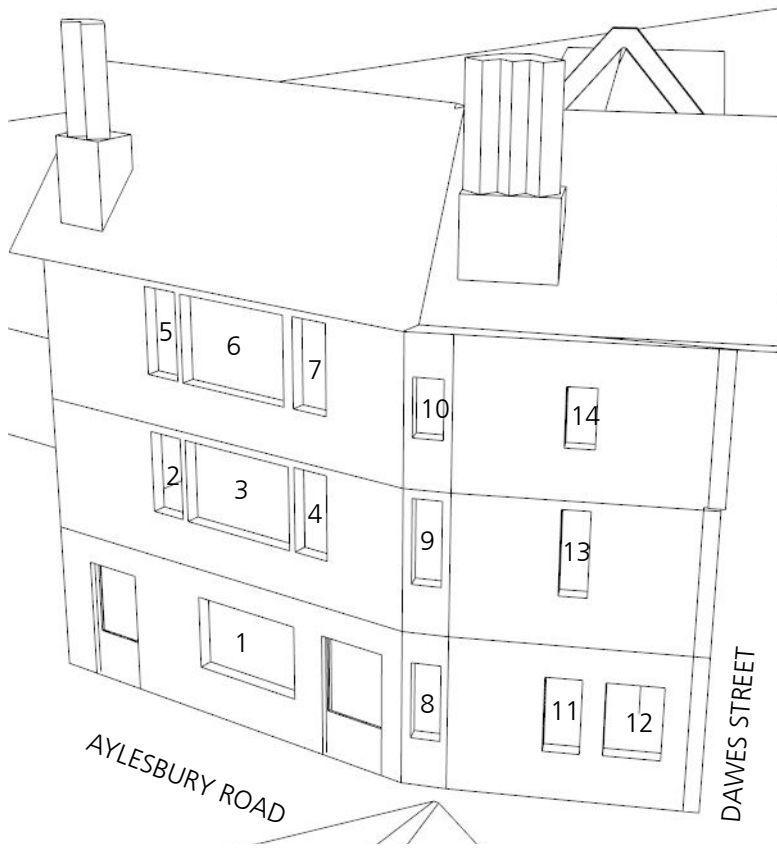


Building 4 - Dawes Street - Chadwell House

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 4 - Dawes Street					
GF	1	32.24	23.82	-26.1%	Fail
GF	2	32.24	23.84	-26.1%	Fail
GF	3	32.06	22.7	-29.2%	Fail
GF	4	31.83	22.77	-28.5%	Fail
GF	10	30.17	23.8	-21.1%	Fail
GF	12	29.1	27.5	-5.5%	Pass
GF	13	27.89	26.09	-6.5%	Pass
	7	Passing windows			2
1F	5	33.51	26.85	-19.9%	Pass
1F	6	32.73	26.33	-19.6%	Pass
1F	7	33.48	26.15	-21.9%	Fail
1F	8	29.62	22.25	-24.9%	Fail
1F	9	32.8	25.42	-22.5%	Fail
1F	11	32.69	26.46	-19.1%	Pass
1F	14	29.72	29.51	-0.7%	Pass
1F	15	29.26	28.34	-3.1%	Pass
	8	Passing windows			5
Number of passing windows					7

Building 5 - Dawes Street



Building 5 - Dawes Street - Chadwell House

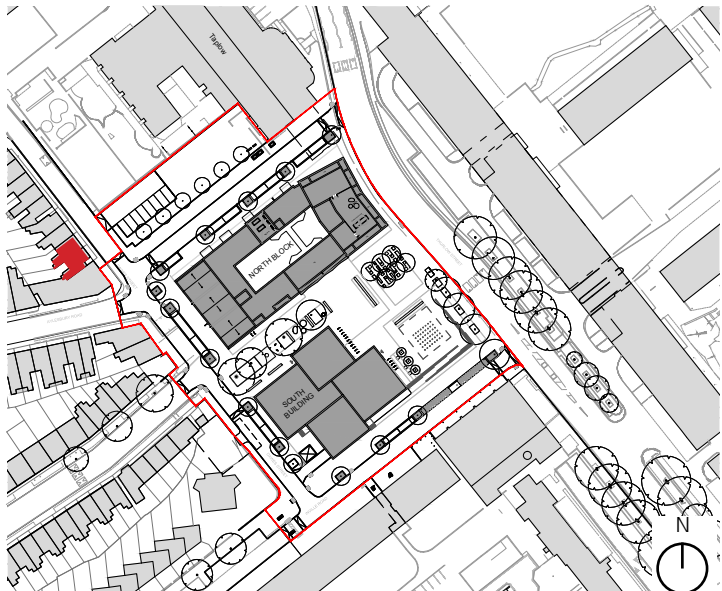
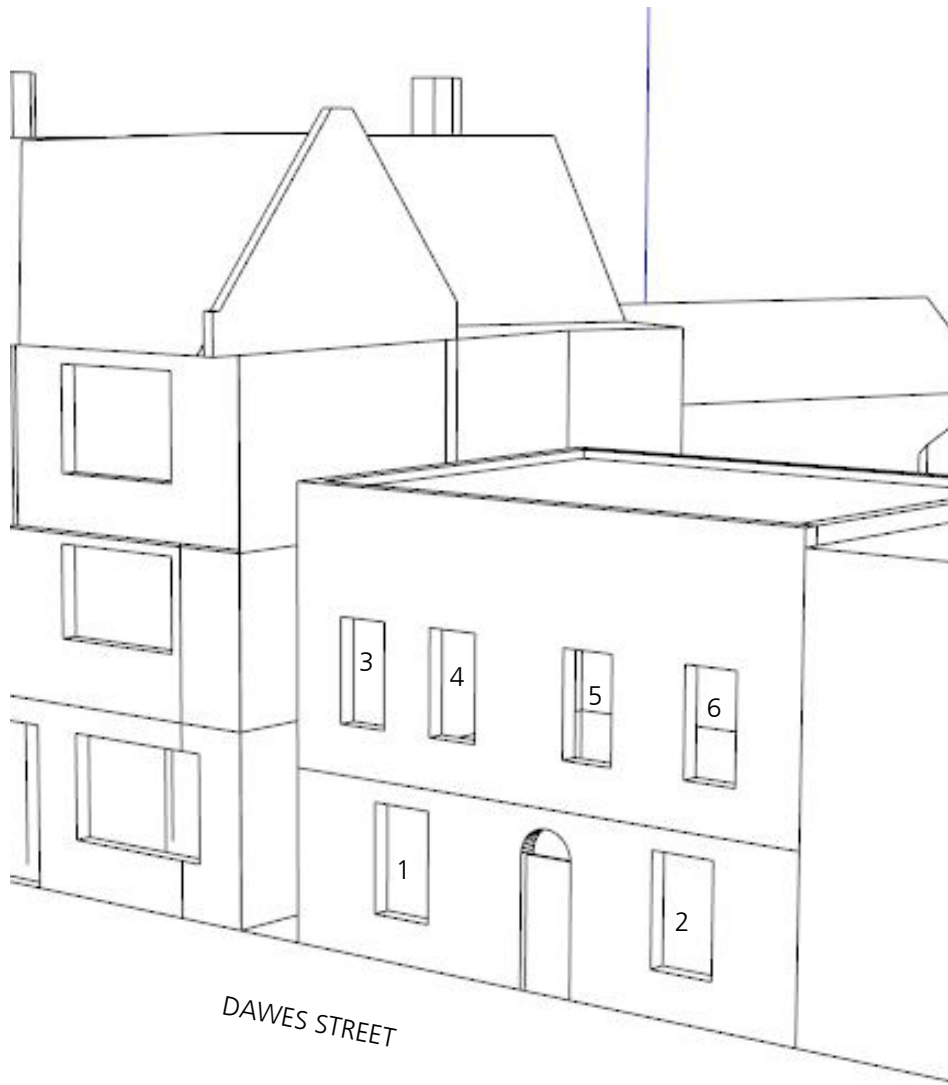
DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 5 - Dawes Street					
GF	1	36.42	35.37	-2.9%	Pass
GF	8	34.09	31.44	-7.8%	Pass
GF	11	33.68	30.85	-8.4%	Pass
GF	12	33.86	30.8	-9.0%	Pass
GF	15	28.48	23.58	-17.2%	Pass
GF	16	26.32	23.25	-11.7%	Pass
	6	Passing windows			6
1F	2	38.45	37.82	-1.6%	Pass
1F	3	38.26	37.64	-1.6%	Pass
1F	4	38.09	37.48	-1.6%	Pass
1F	9	37.55	35.73	-4.8%	Pass
1F	13	36.94	34.92	-5.5%	Pass
1F	17	30.82	26.51	-14.0%	Pass
1F	18	29.15	26.72	-8.3%	Pass
	7	Passing windows			7
2F	5	38.45	37.84	-1.6%	Pass
2F	6	38.58	37.83	-1.9%	Pass
2F	7	38.29	37.72	-1.5%	Pass
2F	10	38.43	37.05	-3.6%	Pass
2F	14	37.52	36.12	-3.7%	Pass
2F	19	32.87	29.48	-10.3%	Pass
2F	20	30.82	28.77	-6.7%	Pass
	7	Passing windows			7
Number of passing windows					20

Building 5 - Dawes Street SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
Building 5 - Dawes Street			Proposed condition			Existing condition						
GF	1	SE	66.01%	73.89%	Pass	71.26%	-7.4%	Pass	79.31%	-6.8%	Pass	Pass
GF	8	SE	53.89%	61.50%	Pass	61.33%	-12.1%	Pass	64.20%	-4.2%	Pass	Pass
GF	11	SE	51.71%	58.97%	Pass	60.37%	-14.3%	Pass	63.37%	-6.9%	Pass	Pass
GF	12	SE	52.29%	60.53%	Pass	60.90%	-14.1%	Pass	64.90%	-6.7%	Pass	Pass
	4		Passing windows			Passing windows						4
1F	2	SE	72.83%	88.86%	Pass	76.04%	-4.2%	Pass	91.14%	-2.5%	Pass	Pass
1F	3	SE	72.63%	88.70%	Pass	75.88%	-4.3%	Pass	91.01%	-2.5%	Pass	Pass
1F	4	SE	72.11%	88.07%	Pass	75.40%	-4.4%	Pass	89.98%	-2.1%	Pass	Pass
1F	9	SE	63.46%	80.45%	Pass	68.29%	-7.1%	Pass	80.61%	-0.2%	Pass	Pass
1F	13	SE	60.87%	79.33%	Pass	67.78%	-10.2%	Pass	82.66%	-4.0%	Pass	Pass
	5		Passing windows			Passing windows						5
2F	5	SE	73.13%	96.24%	Pass	75.64%	-3.3%	Pass	99.88%	-3.6%	Pass	Pass
2F	6	SE	73.23%	96.18%	Pass	75.84%	-3.4%	Pass	99.14%	-3.0%	Pass	Pass
2F	7	SE	72.85%	96.16%	Pass	75.63%	-3.7%	Pass	97.98%	-1.9%	Pass	Pass
2F	10	SE	67.55%	87.30%	Pass	72.04%	-6.2%	Pass	89.09%	-2.0%	Pass	Pass
2F	14	SE	74.87%	81.00%	Pass	81.30%	-7.9%	Pass	85.60%	-5.4%	Pass	Pass
	5		Passing windows			Passing windows						5
Building 1 - Number of passing windows												14

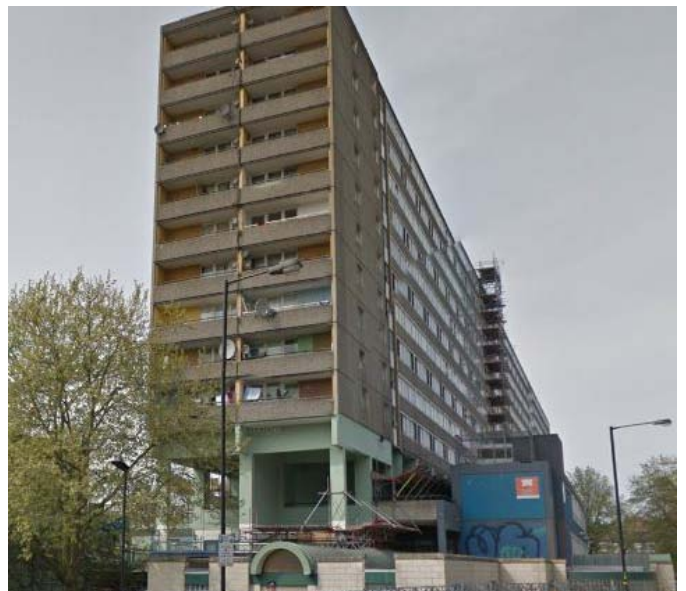
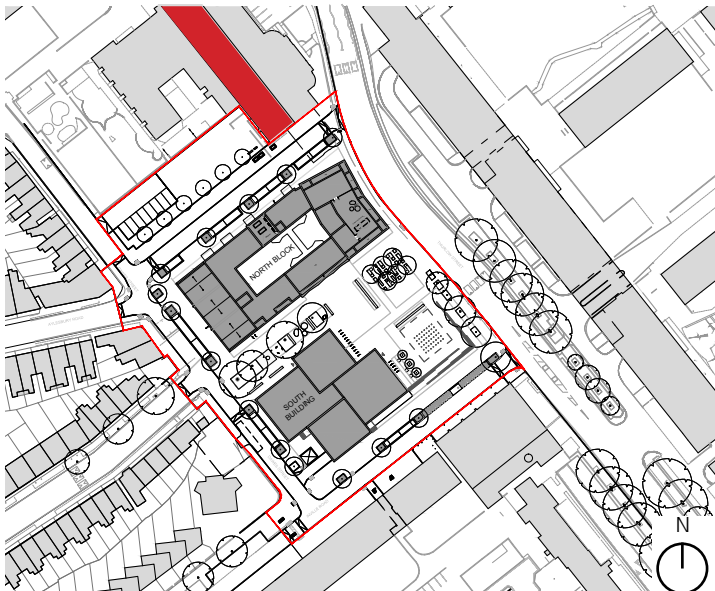
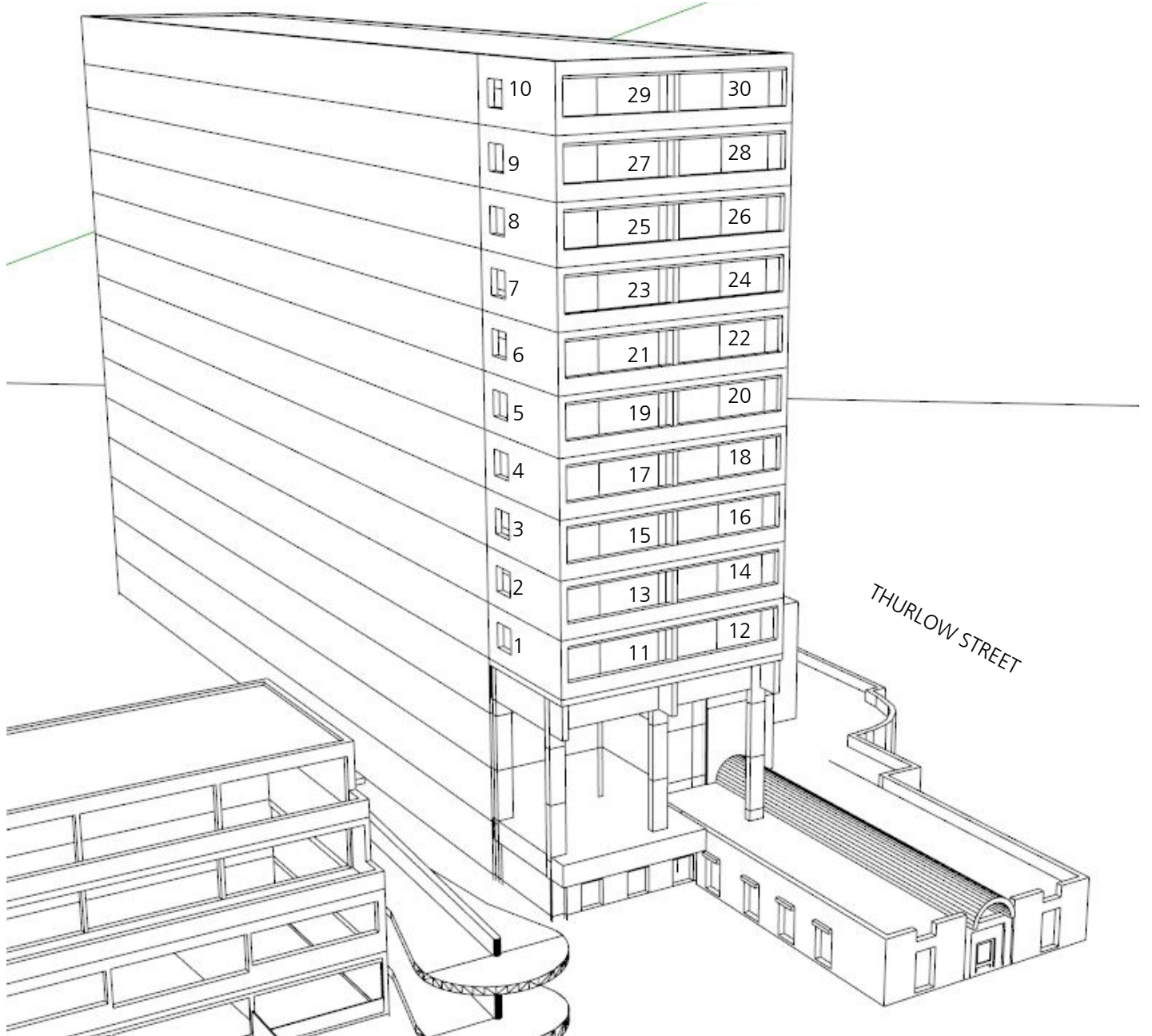
Building 6 - Dawes Street



Building 6 - Dawes Street - Chadwell House
 DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 6 - Dawes Street					
GF	1	24.73	22.68	-8.3%	Pass
GF	2	24.08	24.64	2.3%	Pass
	2	Passing windows			2
1F	3	25.26	24.58	-2.7%	Pass
1F	4	25.59	24.85	-2.9%	Pass
1F	5	26.21	24.89	-5.0%	Pass
1F	6	26.65	25.52	-4.2%	Pass
	4	Passing windows			4
Number of passing windows					6

Building 7 - Thurlow Street



Building 7 - Dawes Street - Chadwell House

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 7 - Thurlow Street					
1F	1	32.94	30.39	-7.7%	Pass
1F	11	22.96	7.06	-69.3%	Fail
1F	12	23.44	8.43	-64.0%	Fail
	3	Passing windows			1
2F	2	37.3	35.05	-6.0%	Pass
2F	13	23.27	9.67	-58.4%	Fail
2F	14	24.08	10.41	-56.8%	Fail
	3	Passing windows			1
3F	3	39.31	38.18	-2.9%	Pass
3F	15	23	11.16	-51.5%	Fail
3F	16	24.6	11.9	-51.6%	Fail
	3	Passing windows			1
4F	4	39.4	38.56	-2.1%	Pass
4F	17	24.3	13.67	-43.7%	Fail
4F	18	24.3	13.27	-45.4%	Fail
	3	Passing windows			1
5F	5	39.49	38.93	-1.4%	Pass
5F	19	24.82	14.08	-43.3%	Fail
5F	20	25.8	13.29	-48.5%	Fail
	3	Passing windows			1
6F	6	39.58	39.3	-0.7%	Pass
6F	21	24.37		-100.0%	Fail
6F	22	24.4	15.2	-37.7%	Fail
	3	Passing windows			1
7F	7	39.77	39.41	-0.9%	Pass
7F	23	24.58	14.6	-40.6%	Fail
7F	24	24.58	14.7	-40.2%	Fail
	3	Passing windows			1
8F	8	39.81	39.46	-0.9%	Pass
8F	25	25.35	16.02	-36.8%	Fail
8F	26	25.63	15.45	-39.7%	Fail
	3	Passing windows			1

Building 7 - Dawes Street - Chadwell House

DAYLIGHT

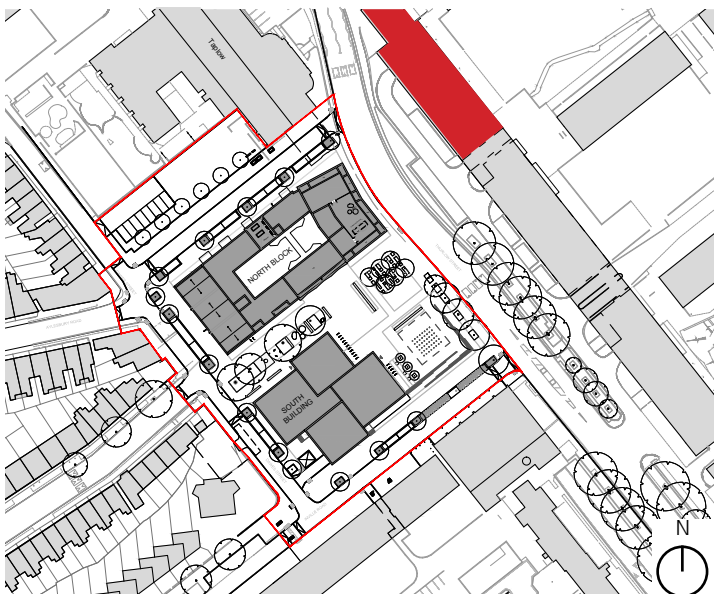
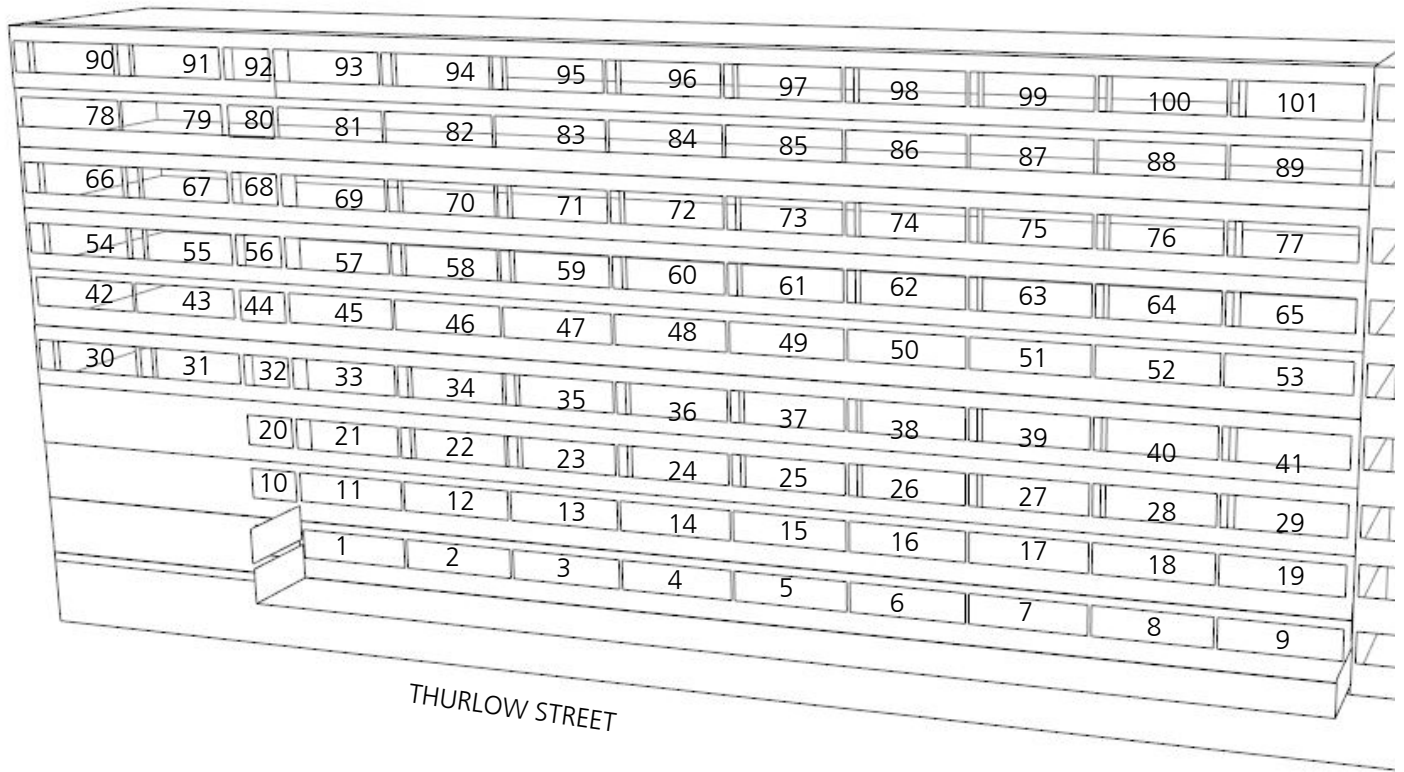
Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition	
9F	9	39.84	39.46	-1.0%	Pass	
9F	27	25.06	15.89	-36.6%	Fail	
9F	28	25.75	14.97	-41.9%	Fail	
3					Passing windows	1
10F	10	39.87	39.5	-0.9%	Pass	
10F	29	24.76	15.75	-36.4%	Fail	
10F	30	25.75	14.97	-41.9%	Fail	
3					Passing windows	1
Number of passing windows					10	

Building 7 - Dawes Street - Chadwell House

SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/ Gains	Condition (Annual)	Winter APSH	Losses/ Gains	Condition (Winter)	Condition
Building 7 - Thurlow Street												
			Proposed condition			Existing condition						
GF	1	SW	42.08%	16.64%	Pass	53.34%	-21.1%	Fail	45.24%	-63.2%	Fail	Pass
GF	11	SE	10.68%	3.68%	Fail	30.85%	-65.4%	Fail	41.07%	-91.0%	Fail	Fail
GF	12	SE	11.58%	5.79%	Fail	31.56%	-63.3%	Fail	41.63%	-86.1%	Fail	Fail
3			Passing windows			1			Passing windows			1
1F	2	SW	52.05%	39.91%	Pass	62.20%	-16.3%	Pass	66.49%	-40.0%	Fail	Pass
1F	13	SE	12.72%	5.54%	Fail	32.34%	-60.7%	Fail	42.16%	-86.9%	Fail	Fail
1F	14	SE	13.89%	8.41%	Fail	33.30%	-58.3%	Fail	42.99%	-80.4%	Fail	Fail
3			Passing windows			1			Passing windows			1
2F	3	SW	60.02%	60.55%	Pass	66.75%	-10.1%	Pass	78.18%	-22.6%	Fail	Pass
2F	15	SE	14.71%	10.57%	Fail	32.74%	-60.7%	Fail	43.20%	-75.5%	Fail	Fail
2F	16	SE	15.92%	13.46%	Fail	34.23%	-53.5%	Fail	44.83%	-70.0%	Fail	Fail
3			Passing windows			1			Passing windows			1
3F	4	SW	65.45%	71.85%	Pass	67.87%	-3.6%	Pass	78.18%	-8.1%	Pass	Pass
3F	17	SE	19.16%	20.62%	Fail	33.43%	-42.7%	Fail	43.47%	-52.6%	Fail	Fail
3F	18	SE	19.33%	21.28%	Fail	34.96%	-44.7%	Fail	45.52%	-53.3%	Fail	Fail
3			Passing windows			1			Passing windows			1
4F	5	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
4F	19	SE	23.32%	28.43%	Fail	35.47%	-34.3%	Fail	45.53%	-37.6%	Fail	Fail
4F	20	SE	22.24%	27.29%	Fail	36.41%	-38.9%	Fail	47.93%	-43.1%	Fail	Fail
3			Passing windows			1			Passing windows			1
5F	6	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
5F	21	SE	24.13%	29.03%	Fail	36.05%	-33.1%	Fail	45.53%	-36.2%	Fail	Fail
5F	22	SE	22.79%	27.39%	Fail	35.82%	-36.4%	Fail	47.98%	-42.9%	Fail	Fail
3			Passing windows			1			Passing windows			1
6F	7	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
6F	23	SE	23.81%	29.03%	Fail	37.17%	-35.9%	Fail	45.54%	-36.3%	Fail	Fail
6F	24	SE	23.81%	27.66%	Fail	37.17%	-35.9%	Fail	47.98%	-42.4%	Fail	Fail
3			Passing windows			1			Passing windows			1
7F	8	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
7F	25	SE	25.00%	29.03%	Pass	34.04%	-26.6%	Fail	45.54%	-36.3%	Fail	Pass
7F	26	SE	25.10%	27.78%	Pass	36.58%	-31.4%	Fail	47.98%	-42.1%	Fail	Pass
3			Passing windows			3			Passing windows			3
8F	9	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
8F	27	SE	25.01%	29.05%	Pass	35.83%	-30.2%	Fail	45.56%	-36.2%	Fail	Pass
8F	28	SE	25.00%	27.78%	Pass	36.58%	-31.7%	Fail	47.98%	-42.1%	Fail	Pass
3			Passing windows			3			Passing windows			3
9F	10	SW	68.06%	78.18%	Pass	68.06%	0.0%	Pass	78.18%	0.0%	Pass	Pass
9F	29	SE	25.01%	27.91%	Pass	30.12%	-17.0%	Pass	44.42%	-37.2%	Fail	Pass
9F	30	SE	25.00%	27.80%	Pass	35.93%	-30.4%	Fail	47.98%	-42.1%	Fail	Pass
3			Passing windows			3			Passing windows			3
Building 1 - Number of passing windows											16	

Building 8A - Thurlow Street



Building 8A - Dawes Street - Chadwell House
 DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 8A - Thurlow Street					
GF	1	29.54	22.23	-24.7%	Fail
GF	2	30.4	22.76	-25.1%	Fail
GF	3	32.25	23.68	-26.6%	Fail
GF	4	32.09	23.83	-25.7%	Fail
GF	5	33.17	23.16	-30.2%	Fail
GF	6	33.86	23.38	-31.0%	Fail
GF	7	34.41	24.1	-30.0%	Fail
GF	8	33.1	24.6	-25.7%	Fail
GF	9	35.43	26.13	-26.2%	Fail
	9	Passing windows			0
1F	10	28.81	24.03	-16.6%	Pass
1F	11	30.79	24.31	-21.0%	Fail
1F	12	31.67	24.01	-24.2%	Fail
1F	13	32.72	24.75	-24.4%	Fail
1F	14	33.73	24.77	-26.6%	Fail
1F	15	34.48	24.46	-29.1%	Fail
1F	16	35.1	24.84	-29.2%	Fail
1F	17	35.76	25.05	-29.9%	Fail
1F	18	36.18	25.87	-28.5%	Fail
1F	19	36.88	27.68	-24.9%	Pass
	10	Passing windows			2
2F	20	29.85	24.03	-19.5%	Pass
2F	21	10.57	6.57	-37.8%	Fail
2F	22	11.33	6.91	-39.0%	Fail
2F	23	11.91	7.11	-40.3%	Fail
2F	24	12.39	7.06	-43.0%	Fail
2F	25	13.12	7.41	-43.5%	Fail
2F	26	13.43	7.4	-44.9%	Fail
2F	27	13.78	7.6	-44.8%	Fail
2F	28	14.15	7.38	-47.8%	Fail
2F	29	14.14	7.69	-45.6%	Fail
	10	Passing windows			1

Building 8A - Dawes Street - Chadwell House
DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
3F	30	13.06	10.14	-22.4%	Fail
3F	31	14.63	10.87	-25.7%	Fail
3F	32	32.71	26.89	-17.8%	Pass
3F	33	16.19	9.91	-38.8%	Fail
3F	34	16.72	10.4	-37.8%	Fail
3F	35	17.16	10.1	-41.1%	Fail
3F	36	18.25	10.5	-42.5%	Fail
3F	37	19.2	10.93	-43.1%	Fail
3F	38	20.13	10.48	-47.9%	Fail
3F	39	20.3	10.95	-46.1%	Fail
3F	40	20.48	12.16	-40.6%	Fail
3F	41	20.79	12.91	-37.9%	Fail
	12	Passing windows			1
4F	42	30.99	27.36	-11.7%	Pass
4F	43	31.77	27.09	-14.7%	Pass
4F	44	32.76	27.22	-16.9%	Pass
4F	45	33.42	27.82	-16.8%	Pass
4F	46	34.27	27.95	-18.4%	Pass
4F	47	35.14	28.18	-19.8%	Pass
4F	48	35.99	28.13	-21.8%	Pass
4F	49	36.66	28.22	-23.0%	Pass
4F	50	36.99	27.94	-24.5%	Pass
4F	51	37.5	27.9	-25.6%	Pass
4F	52	38.1	28.68	-24.7%	Pass
4F	53	38.26	29.85	-22.0%	Pass
	12	Passing windows			12

Building 8A - Dawes Street - Chadwell House
DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
5F	54	15.15	12.24	-19.2%	Pass
5F	55	16.32	13.09	-19.8%	Pass
5F	56	33.75	28.86	-14.5%	Pass
5F	57	17.45	12.27	-29.7%	Fail
5F	58	18.42	11.8	-35.9%	Fail
5F	59	19.13	11.85	-38.1%	Fail
5F	60	19.6	11.93	-39.1%	Fail
5F	61	20.54	11.93	-41.9%	Fail
5F	62	21	12.01	-42.8%	Fail
5F	63	21	11.64	-44.6%	Fail
5F	64	21.49	13.17	-38.7%	Fail
5F	65	21.2	13.96	-34.2%	Fail
	12	Passing windows			3

6F	66	16.52	13.71	-17.0%	Pass
6F	67	17.32	14.12	-18.5%	Pass
6F	68	34.62	30.42	-12.1%	Pass
6F	69	18.13	12.98	-28.4%	Fail
6F	70	19.13	12.75	-33.4%	Fail
6F	71	19.59	12.75	-34.9%	Fail
6F	72	20.19	12.69	-37.1%	Fail
6F	73	21	12.53	-40.3%	Fail
6F	74	21.11	12.23	-42.1%	Fail
6F	75	21.62	12.7	-41.3%	Fail
6F	76	21.41	14.22	-33.6%	Fail
6F	77	21.59	14.34	-33.6%	Fail
	12	Passing windows			3

Building 8A - Dawes Street - Chadwell House

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
7F	78	34.39	31.77	-7.6%	Pass
7F	79	34.89	31.95	-8.4%	Pass
7F	80	35.4	31.99	-9.6%	Pass
7F	81	35.95	31.98	-11.0%	Pass
7F	82	37.05	31.14	-16.0%	Pass
7F	83	36.92	31.08	-15.8%	Pass
7F	84	37.72	30.82	-18.3%	Pass
7F	85	37.87	30.6	-19.2%	Pass
7F	86	38.41	30.41	-20.8%	Pass
7F	87	38.52	30.43	-21.0%	Pass
7F	88	39.05	31.39	-19.6%	Pass
7F	89	39.07	31.92	-18.3%	Pass
	12	Passing windows			12
8F	90	19.76	17.4	-11.9%	Pass
8F	91	19.8	17.71	-10.6%	Pass
8F	92	36.35	32.68	-10.1%	Pass
8F	93	21.32	17.33	-18.7%	Pass
8F	94	21.93	16.5	-24.8%	Fail
8F	95	22.17	16.54	-25.4%	Fail
8F	96	22.4	16.13	-28.0%	Fail
8F	97	22.6	16.24	-28.1%	Fail
8F	98	23.02	15.09	-34.4%	Fail
8F	99	23.3	15.7	-32.6%	Fail
8F	100	23.19	16.35	-29.5%	Fail
8F	101	22.87	17.4	-23.9%	Fail
	12	Passing windows			4
Number of passing windows					38

Building 8A - Dawes Street - Chadwell House

SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
Building 8A - Thurlow Street												
			Proposed condition			Existing condition						
GF	1	SW	34.19%	35.99%	Pass	47.75%	-28.4%	Fail	64.76%	-44.4%	Fail	Pass
GF	2	SW	35.46%	35.79%	Pass	49.82%	-28.8%	Fail	65.56%	-45.4%	Fail	Pass
GF	3	SW	36.20%	38.37%	Pass	51.78%	-30.1%	Fail	69.26%	-44.6%	Fail	Pass
GF	4	SW	35.51%	40.11%	Pass	52.44%	-32.3%	Fail	68.75%	-41.7%	Fail	Pass
GF	5	SW	35.36%	43.12%	Pass	53.37%	-33.7%	Fail	68.56%	-37.1%	Fail	Pass
GF	6	SW	35.01%	44.15%	Pass	53.56%	-34.6%	Fail	68.51%	-35.6%	Fail	Pass
GF	7	SW	35.77%	48.97%	Pass	54.11%	-33.9%	Fail	67.61%	-27.6%	Fail	Pass
GF	8	SW	38.50%	55.93%	Pass	55.68%	-30.9%	Fail	69.24%	-19.2%	Pass	Pass
GF	9	SW	42.34%	59.86%	Pass	57.56%	-26.4%	Fail	69.55%	-13.9%	Pass	Pass
			Passing windows			Passing windows						9
1F	10	SW	36.27%	33.95%	Pass	47.91%	-24.3%	Fail	60.79%	-44.2%	Fail	Pass
1F	11	SW	37.43%	36.93%	Pass	49.71%	-24.7%	Fail	65.21%	-43.4%	Fail	Pass
1F	12	SW	37.83%	37.47%	Pass	51.94%	-27.2%	Fail	67.30%	-44.3%	Fail	Pass
1F	13	SW	37.77%	39.36%	Pass	53.12%	-28.9%	Fail	69.99%	-43.8%	Fail	Pass
1F	14	SW	36.96%	41.46%	Pass	54.68%	-32.4%	Fail	72.92%	-43.1%	Fail	Pass
1F	15	SW	38.22%	44.35%	Pass	55.84%	-31.6%	Fail	73.98%	-40.1%	Fail	Pass
1F	16	SW	37.88%	46.39%	Pass	55.06%	-32.5%	Fail	72.45%	-36.0%	Fail	Pass
1F	17	SW	37.69%	50.63%	Pass	55.26%	-31.8%	Fail	70.61%	-28.3%	Fail	Pass
1F	18	SW	41.73%	57.92%	Pass	57.79%	-27.8%	Fail	71.49%	-19.0%	Pass	Pass
1F	19	SW	43.89%	62.61%	Pass	59.15%	-25.8%	Fail	72.73%	-13.9%	Pass	Pass
			Passing windows			Passing windows						10
2F	20	SW	36.30%	34.10%	Pass	47.90%	-24.2%	Fail	60.84%	-44.0%	Fail	Pass
2F	21	SW	14.07%	13.66%	Fail	23.11%	-39.1%	Fail	34.78%	-60.7%	Fail	Fail
2F	22	SW	14.07%	13.66%	Fail	23.11%	-39.1%	Fail	34.78%	-60.7%	Fail	Fail
2F	23	SW	13.89%	14.43%	Fail	24.17%	-42.5%	Fail	37.17%	-61.2%	Fail	Fail
2F	24	SW	15.03%	17.60%	Fail	25.24%	-40.5%	Fail	38.79%	-54.6%	Fail	Fail
2F	25	SW	14.53%	19.02%	Fail	24.92%	-41.7%	Fail	38.96%	-51.2%	Fail	Fail
2F	26	SW	13.96%	21.44%	Fail	24.80%	-43.7%	Fail	39.28%	-45.4%	Fail	Fail
2F	27	SW	14.32%	24.60%	Fail	25.23%	-43.2%	Fail	39.50%	-37.7%	Fail	Fail
2F	28	SW	16.38%	28.96%	Fail	26.84%	-39.0%	Fail	40.92%	-29.2%	Fail	Fail
2F	29	SW	12.89%	22.38%	Fail	23.45%	-45.0%	Fail	32.60%	-31.3%	Fail	Fail
			Passing windows			Passing windows						1
3F	30	SW	13.28%	12.09%	Fail	18.23%	-27.2%	Fail	24.96%	-51.6%	Fail	Fail
3F	31	SW	13.28%	12.09%	Fail	18.23%	-27.2%	Fail	24.96%	-51.6%	Fail	Fail
3F	32	SW	36.40%	34.20%	Pass	48.10%	-24.3%	Fail	60.90%	-43.8%	Fail	Pass
3F	33	SW	12.36%	12.53%	Fail	20.47%	-39.6%	Fail	32.66%	-61.6%	Fail	Fail
3F	34	SW	14.07%	13.66%	Fail	23.11%	-39.1%	Fail	34.78%	-60.7%	Fail	Fail
3F	35	SW	13.89%	14.43%	Fail	24.17%	-42.5%	Fail	37.17%	-61.2%	Fail	Fail
3F	36	SW	15.03%	17.60%	Fail	25.24%	-40.5%	Fail	38.79%	-54.6%	Fail	Fail
3F	37	SW	14.53%	19.02%	Fail	24.92%	-41.7%	Fail	38.96%	-51.2%	Fail	Fail
3F	38	SW	13.96%	21.44%	Fail	24.80%	-43.7%	Fail	39.28%	-45.4%	Fail	Fail
3F	39	SW	14.32%	24.60%	Fail	25.23%	-43.2%	Fail	39.50%	-37.7%	Fail	Fail
3F	40	SW	16.38%	28.96%	Fail	26.84%	-39.0%	Fail	40.92%	-29.2%	Fail	Fail
3F	41	SW	12.89%	22.38%	Fail	23.45%	-45.0%	Fail	32.60%	-31.3%	Fail	Fail
			Passing windows			Passing windows						1
4F	42	SW	44.17%	32.63%	Pass	51.71%	-14.6%	Pass	52.36%	-37.7%	Fail	Pass
4F	43	SW	44.36%	36.06%	Pass	52.87%	-16.1%	Pass	57.27%	-37.0%	Fail	Pass
4F	44	SW	44.18%	37.82%	Pass	54.02%	-18.2%	Pass	61.79%	-38.8%	Fail	Pass
4F	45	SW	44.38%	38.08%	Pass	55.75%	-20.4%	Fail	65.89%	-42.2%	Fail	Pass
4F	46	SW	44.13%	39.09%	Pass	56.46%	-21.8%	Fail	67.38%	-42.0%	Fail	Pass
4F	47	SW	43.10%	40.04%	Pass	57.38%	-24.9%	Fail	70.60%	-43.3%	Fail	Pass
4F	48	SW	44.83%	44.36%	Pass	60.05%	-25.3%	Fail	75.38%	-41.2%	Fail	Pass
4F	49	SW	43.00%	45.34%	Pass	59.34%	-27.5%	Fail	75.76%	-40.2%	Fail	Pass
4F	50	SW	40.55%	46.34%	Pass	59.07%	-31.4%	Fail	76.08%	-39.1%	Fail	Pass
4F	51	SW	41.37%	50.61%	Pass	60.34%	-31.4%	Fail	75.98%	-33.4%	Fail	Pass
4F	52	SW	44.08%	58.07%	Pass	61.09%	-27.8%	Fail	76.74%	-24.3%	Fail	Pass
4F	53	SW	46.06%	65.83%	Pass	61.92%	-25.6%	Fail	78.18%	-15.8%	Pass	Pass
			Passing windows			Passing windows						12
5F	54	SW	15.37%	13.16%	Fail	19.98%	-23.1%	Fail	25.22%	-47.8%	Fail	Fail
5F	55	SW	15.37%	13.16%	Fail	21.03%	-26.9%	Fail	22.71%	-42.1%	Fail	Fail
5F	56	SW	44.18%	37.82%	Pass	54.02%	-18.2%	Pass	61.72%	-38.7%	Fail	Pass
5F	57	SW	16.48%	17.37%	Fail	23.17%	-28.9%	Fail	33.94%	-48.8%	Fail	Fail
5F	58	SW	18.23%	18.17%	Fail	25.72%	-29.1%	Fail	35.64%	-49.0%	Fail	Fail
5F	59	SW	17.78%	18.99%	Fail	26.51%	-32.9%	Fail	38.60%	-50.8%	Fail	Fail
5F	60	SW	18.67%	21.10%	Fail	27.57%	-32.3%	Fail	40.43%	-47.8%	Fail	Fail
5F	61	SW	17.08%	20.72%	Fail	26.74%	-36.1%	Fail	40.02%	-48.2%	Fail	Fail
5F	62	SW	16.22%	21.55%	Fail	26.79%	-39.5%	Fail	40.51%	-46.8%	Fail	Fail
5F	63	SW	17.05%	24.57%	Fail	27.46%	-37.9%	Fail	40.56%	-39.4%	Fail	Fail
5F	64	SW	18.17%	29.36%	Fail	27.86%	-34.8%	Fail	41.08%	-28.5%	Fail	Fail
5F	65	SW	15.30%	24.85%	Fail	24.46%	-37.4%	Fail	32.60%	-23.8%	Fail	Fail
			Passing windows			Passing windows						1

Building 8A - Dawes Street - Chadwell House

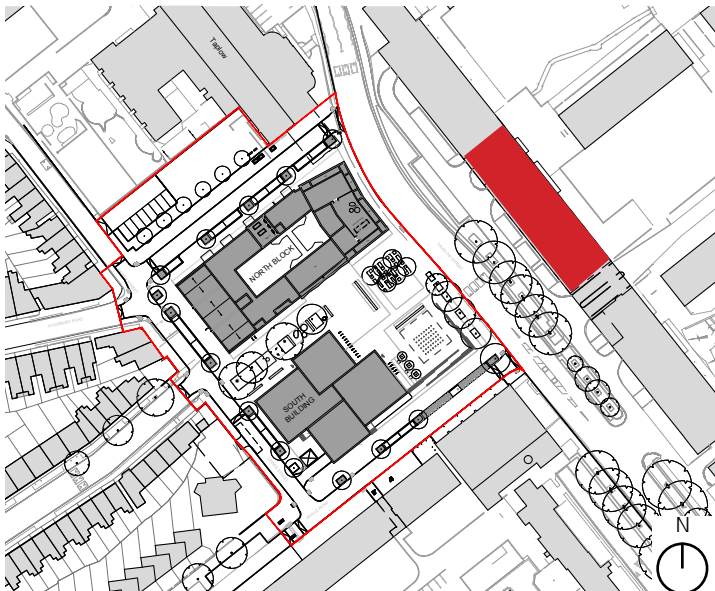
SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
6F	66	SW	16.55%	15.35%	Fail	21.07%	-21.5%	Fail	27.19%	-43.5%	Fail	Fail
6F	67	SW	16.55%	15.35%	Fail	21.07%	-21.5%	Fail	27.19%	-43.5%	Fail	Fail
6F	68	SW	44.18%	37.82%	Pass	54.02%	-18.2%	Pass	61.72%	-38.7%	Fail	Pass
6F	69	SW	16.48%	16.07%	Fail	23.65%	-30.3%	Fail	34.09%	-52.9%	Fail	Fail
6F	70	SW	18.23%	15.87%	Fail	26.63%	-31.5%	Fail	36.67%	-56.7%	Fail	Fail
6F	71	SW	17.70%	16.14%	Fail	27.21%	-35.0%	Fail	38.97%	-58.6%	Fail	Fail
6F	72	SW	18.98%	19.37%	Fail	28.17%	-32.6%	Fail	40.43%	-52.1%	Fail	Fail
6F	73	SW	17.60%	20.22%	Fail	27.26%	-35.4%	Fail	40.02%	-49.5%	Fail	Fail
6F	74	SW	17.01%	21.89%	Fail	27.40%	-37.9%	Fail	40.86%	-46.4%	Fail	Fail
6F	75	SW	17.79%	25.64%	Fail	28.17%	-36.8%	Fail	41.61%	-38.4%	Fail	Fail
6F	76	SW	18.39%	29.24%	Fail	28.07%	-34.5%	Fail	41.34%	-29.3%	Fail	Fail
6F	77	SW	14.76%	22.94%	Fail	24.56%	-39.9%	Fail	32.60%	-29.6%	Fail	Fail
12			Passing windows			Passing windows			Passing windows			1
7F	78	SW	50.03%	38.26%	Pass	56.71%	-11.8%	Pass	55.76%	-31.4%	Fail	Pass
7F	79	SW	50.24%	38.80%	Pass	57.98%	-13.3%	Pass	59.09%	-34.3%	Fail	Pass
7F	80	SW	50.96%	40.71%	Pass	59.61%	-14.5%	Pass	63.37%	-35.8%	Fail	Pass
7F	81	SW	51.88%	43.12%	Pass	60.71%	-14.5%	Pass	66.22%	-34.9%	Fail	Pass
7F	82	SW	52.00%	45.49%	Pass	61.97%	-16.1%	Pass	70.52%	-35.5%	Fail	Pass
7F	83	SW	51.32%	45.47%	Pass	62.98%	-18.5%	Pass	73.98%	-38.5%	Fail	Pass
7F	84	SW	50.97%	46.36%	Pass	63.61%	-19.9%	Pass	76.37%	-39.3%	Fail	Pass
7F	85	SW	48.53%	46.22%	Pass	62.70%	-22.6%	Fail	76.43%	-39.5%	Fail	Pass
7F	86	SW	47.65%	46.38%	Pass	62.93%	-24.3%	Fail	76.37%	-39.3%	Fail	Pass
7F	87	SW	48.57%	52.38%	Pass	63.90%	-24.0%	Fail	77.78%	-32.7%	Fail	Pass
7F	88	SW	49.22%	59.51%	Pass	64.05%	-23.2%	Fail	78.18%	-23.9%	Fail	Pass
7F	89	SW	50.61%	65.80%	Pass	64.38%	-21.4%	Fail	78.18%	-15.8%	Pass	Pass
12			Passing windows			Passing windows			Passing windows			12
8F	90	SW	20.15%	21.45%	Fail	23.35%	-13.7%	Pass	29.85%	-28.0%	Fail	Fail
8F	91	SW	20.88%	17.57%	Fail	24.10%	-13.4%	Pass	25.99%	-32.4%	Fail	Fail
8F	92	SW	50.96%	40.71%	Pass	59.61%	-14.5%	Pass	63.37%	-35.8%	Fail	Pass
8F	93	SW	20.53%	22.05%	Fail	25.24%	-18.7%	Pass	34.37%	-35.8%	Fail	Fail
8F	94	SW	22.40%	21.68%	Fail	28.21%	-20.6%	Fail	36.53%	-40.7%	Fail	Fail
8F	95	SW	21.26%	20.31%	Fail	28.32%	-24.9%	Fail	37.68%	-46.1%	Fail	Fail
8F	96	SW	21.38%	21.26%	Fail	28.84%	-25.9%	Fail	39.02%	-45.5%	Fail	Fail
8F	97	SW	20.23%	21.14%	Fail	28.53%	-29.1%	Fail	39.11%	-45.5%	Fail	Fail
8F	98	SW	20.03%	21.70%	Fail	28.67%	-30.1%	Fail	39.32%	-44.8%	Fail	Fail
8F	99	SW	20.85%	25.23%	Fail	29.26%	-28.7%	Fail	40.13%	-37.1%	Fail	Fail
8F	100	SW	21.56%	28.81%	Fail	29.12%	-26.0%	Fail	39.75%	-27.5%	Fail	Fail
8F	101	SW	18.49%	23.65%	Fail	25.49%	-27.5%	Fail	30.89%	-23.4%	Fail	Fail
12			Passing windows			Passing windows			Passing windows			1
Building 1 - Number of passing windows											48	

Building 8B - Thurlow Street

93	94	95	96	97	98	99	100	101	102	103	104
81	82	83	84	85	86	87	88	89	90	91	92
69	70	71	72	73	74	75	76	77	78	79	80
57	58	59	60	61	62	63	64	65	66	67	68
45	46	47	48	49	50	51	52	53	54	55	56
33	34	35	36	37	38	39	40	41	42	43	44
22	23	24	25	26	27	28	29	30	31	32	
11	12	13	14	15	16	17	18	19	20	21	
1	2	3	4	5	6	7	8	9			10

THURLOW STREET



Building 8B - Thurlow Street

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 8B - Thurlow Street					
GF	1	34.93	26.08	-25.3%	Fail
GF	2	36.25	27.67	-23.7%	Pass
GF	3	36.75	29.16	-20.7%	Pass
GF	4	36.93	30.27	-18.0%	Pass
GF	5	37.4	31.14	-16.7%	Pass
GF	6	37.5	31.88	-15.0%	Pass
GF	7	34.39	33.14	-3.6%	Pass
GF	8	37.42	33.64	-10.1%	Pass
GF	9	37.16	33.93	-8.7%	Pass
GF	10	37.27	35.4	-5.0%	Pass
	10	Passing windows			9
1F	11	36.77	28.16	-23.4%	Pass
1F	12	36.49	27.84187	-23.7%	Pass
1F	13	37.03	29.36479	-20.7%	Pass
1F	14	37.36	30.6352	-18.0%	Pass
1F	15	37.07	30.87931	-16.7%	Pass
1F	16	37.78	32.113	-15.0%	Pass
1F	17	37.35	35.4825	-5.0%	Pass
1F	18	37.33	34.3436	-8.0%	Pass
1F	19	37.76	34.47488	-8.7%	Pass
1F	20	37.69	34.48635	-8.5%	Pass
1F	21	38.56	36.632	-5.0%	Pass
	11	Passing windows			11

Building 8B - Thurlow Street

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
2F	22	37.74	28.67	-24.0%	Pass
2F	23	20.06	14.4	-28.2%	Fail
2F	24	21.26	15.78	-25.8%	Fail
2F	25	20.98	16.76	-20.1%	Fail
2F	26	21.57	17.8	-17.5%	Pass
2F	27	21.57	17.66	-18.1%	Pass
2F	28	21.39	19.19	-10.3%	Pass
2F	29	21.51	19.17	-10.9%	Pass
2F	30	21.78	20.05	-7.9%	Pass
2F	31	21.34	20.38	-4.5%	Pass
2F	32	20.89	19.9	-4.7%	Pass
	11	Passing windows			8
3F	33	38.17	29.68	-22.2%	Pass
3F	34	21.35	15.08	-29.4%	Fail
3F	35	21.26	16.87	-20.6%	Fail
3F	36	21.8	17.51	-19.7%	Pass
3F	37	21.59	18.32	-15.1%	Pass
3F	38	21.89	19.24	-12.1%	Pass
3F	39	21.71	19.67	-9.4%	Pass
3F	40	21.68	20.02	-7.7%	Pass
3F	41	22.28	20.47	-8.1%	Pass
3F	42	22.28	20.45	-8.2%	Pass
3F	43	21.37	21.12	-1.2%	Pass
3F	44	21.26	20.85	-1.9%	Pass
	12	Passing windows			10

Building 8B - Thurlow Street

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
4F	45	38.63	30.75	-20.4%	Pass
4F	46	38.72	31.72	-18.1%	Pass
4F	47	38.93	33.11	-14.9%	Pass
4F	48	38.97	33.9	-13.0%	Pass
4F	49	39.04	34.62	-11.3%	Pass
4F	50	37.08	35.18	-5.1%	Pass
4F	51	38.81	35.77	-7.8%	Pass
4F	52	38.76	36.22	-6.6%	Pass
4F	53	38.98	36.79	-5.6%	Pass
4F	54	38.91	37.09	-4.7%	Pass
4F	55	38.92	38.11	-2.1%	Pass
4F	56	38.87	37.28	-4.1%	Pass
	12	Passing windows			12
5F	57	38.86	31.09	-20.0%	Pass
5F	58	21.73	15.99	-26.4%	Fail
5F	59	22.3	26.58	19.2%	Pass
5F	60	22.17	26.09	17.7%	Pass
5F	61	22.45	25.75	14.7%	Pass
5F	62	22.01	25.25	14.7%	Pass
5F	63	22.65	24.71	9.1%	Pass
5F	64	22.45	24.02	7.0%	Pass
5F	65	22.61	23.74	5.0%	Pass
5F	66	22.46	23.74	5.7%	Pass
5F	67	22.39	23.17	3.5%	Pass
5F	68	21.5	21.78	1.3%	Pass
	12	Passing windows			11

Building 8B - Thurlow Street

DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
6F	69	39.14	31.9	-18.5%	Pass
6F	70	21.81	16.06	-26.4%	Fail
6F	71	22.59	18.25	-19.2%	Pass
6F	72	22.17	18.25	-17.7%	Pass
6F	73	22.92	19.55	-14.7%	Pass
6F	74	22.29	20.27	-9.1%	Pass
6F	75	22.66	21.07	-7.0%	Pass
6F	76	22.45	21.33	-5.0%	Pass
6F	77	22.65	21.36	-5.7%	Pass
6F	78	22.61	21.81	-3.5%	Pass
6F	79	22.39	22.11	-1.3%	Pass
6F	80	21.62	21.63	0.0%	Pass
	12	Passing windows			11

7F	81	39.11	32.76	-16.2%	Pass
7F	82	39.51	33.65	-14.8%	Pass
7F	83	39.27	34.43	-12.3%	Pass
7F	84	39.75	36.09	-9.2%	Pass
7F	85	39.21	36.47	-7.0%	Pass
7F	86	39.41	36.95	-6.2%	Pass
7F	87	39.39	37.03	-6.0%	Pass
7F	88	39.53	37.73	-4.6%	Pass
7F	89	39.49	37.71	-4.5%	Pass
7F	90	40.17	38.46	-4.3%	Pass
7F	91	38.92	38.23	-1.8%	Pass
7F	92	38.87	38.16	-1.8%	Pass
	12	Passing windows			12

Building 8B - Thurlow Street
 DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
8F	93	39.32	33.49	-14.8%	Pass
8F	94	19.0785	16.59	-13.0%	Pass
8F	95	21.81	18.45	-15.4%	Pass
8F	96	22.59	18.83	-16.6%	Pass
8F	97	22.17	19.68	-11.2%	Pass
8F	98	22.92	20.06	-12.5%	Pass
8F	99	22.66	20.5	-9.5%	Pass
8F	100	22.45	20.91	-6.9%	Pass
8F	101	22.65	20.93	-7.6%	Pass
8F	102	22.61	20.23	-10.5%	Pass
8F	103	22.39	20.57	-8.1%	Pass
8F	104	21.62	20.33	-6.0%	Pass
	12	Passing windows			12
Number of passing windows					96

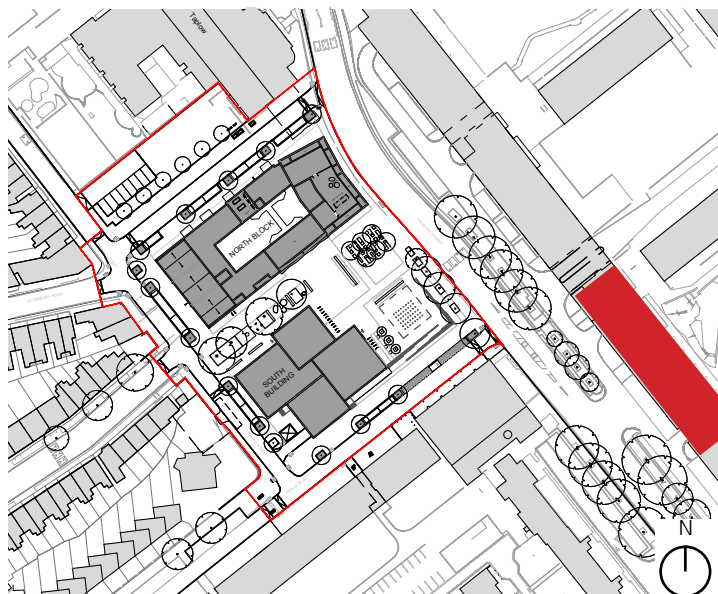
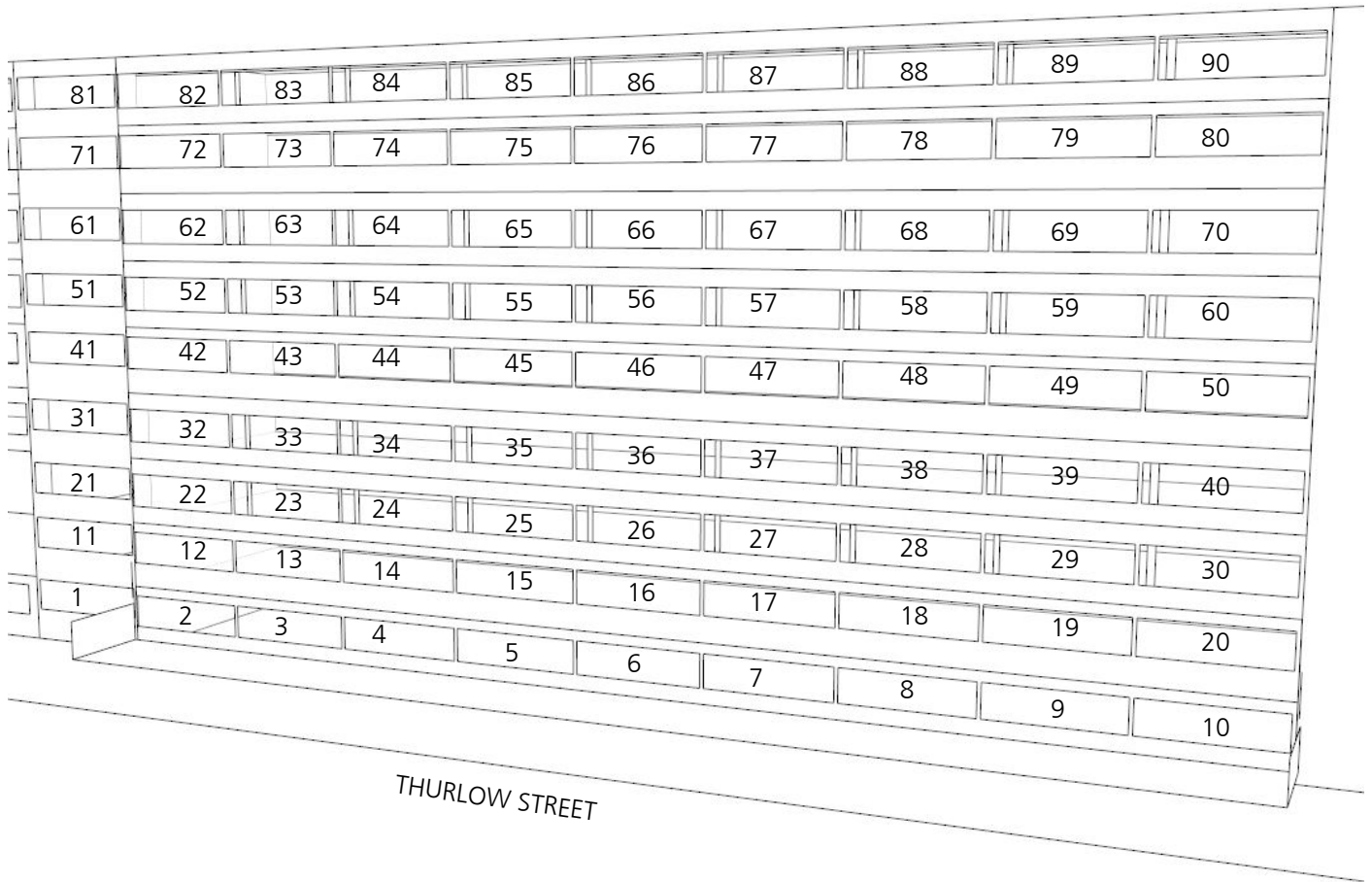
Building 8B - Thurlow Street SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition	
Building 8B - Thurlow Street													
			Proposed condition			Existing condition							
GF	1	SW	41.12%	58.93%	Pass	53.71%	-23.4%	Fail	66.67%	-11.6%	Pass	Pass	
GF	2	SW	43.71%	60.72%	Pass	57.37%	-23.8%	Fail	70.66%	-14.1%	Pass	Pass	
GF	3	SW	45.74%	61.02%	Pass	57.19%	-20.0%	Fail	69.48%	-12.2%	Pass	Pass	
GF	4	SW	47.34%	62.30%	Pass	58.47%	-19.0%	Pass	69.18%	-9.9%	Pass	Pass	
GF	5	SW	48.01%	60.76%	Pass	59.34%	-19.1%	Pass	68.51%	-11.3%	Pass	Pass	
GF	6	SW	48.54%	59.09%	Pass	59.20%	-18.0%	Pass	67.73%	-12.8%	Pass	Pass	
GF	7	SW	52.82%	66.74%	Pass	61.60%	-14.3%	Pass	72.60%	-8.1%	Pass	Pass	
GF	8	SW	53.77%	65.74%	Pass	60.64%	-11.3%	Pass	70.46%	-6.7%	Pass	Pass	
GF	9	SW	53.24%	61.23%	Pass	58.70%	-9.3%	Pass	66.46%	-7.9%	Pass	Pass	
GF	10	SW	55.12%	64.12%	Pass	60.34%	-8.7%	Pass	66.60%	-3.7%	Pass	Pass	
	10		Passing windows			10	Passing windows						10
1F	11	SW	43.79%	63.75%	Pass	59.13%	-25.9%	Fail	73.89%	-13.7%	Pass	Pass	
1F	12	SW	46.14%	64.78%	Pass	59.72%	-22.7%	Fail	72.97%	-11.2%	Pass	Pass	
1F	13	SW	47.15%	62.97%	Pass	59.23%	-20.4%	Fail	71.34%	-11.7%	Pass	Pass	
1F	14	SW	48.17%	62.58%	Pass	60.43%	-20.3%	Fail	70.89%	-11.7%	Pass	Pass	
1F	15	SW	48.82%	60.77%	Pass	60.89%	-19.8%	Pass	70.34%	-13.6%	Pass	Pass	
1F	16	SW	50.18%	60.19%	Pass	61.02%	-17.8%	Pass	70.67%	-14.8%	Pass	Pass	
1F	17	SW	54.06%	67.10%	Pass	62.72%	-13.8%	Pass	73.72%	-9.0%	Pass	Pass	
1F	18	SW	55.09%	66.03%	Pass	61.31%	-10.1%	Pass	70.46%	-6.3%	Pass	Pass	
1F	19	SW	53.91%	62.97%	Pass	59.28%	-9.1%	Pass	67.92%	-7.3%	Pass	Pass	
1F	20	SW	55.38%	67.64%	Pass	61.28%	-9.6%	Pass	71.08%	-4.8%	Pass	Pass	
1F	21	SW	56.51%	69.24%	Pass	62.18%	-9.1%	Pass	72.51%	-4.5%	Pass	Pass	
	11		Passing windows			11	Passing windows						11
2F	22	SW	45.29%	65.52%	Pass	60.47%	-25.1%	Fail	75.58%	-13.3%	Pass	Pass	
2F	23	SW	18.05%	34.51%	Fail	25.46%	-29.1%	Fail	39.58%	-12.8%	Pass	Fail	
2F	24	SW	19.64%	34.60%	Fail	26.82%	-26.8%	Fail	38.37%	-9.8%	Pass	Fail	
2F	25	SW	20.71%	36.17%	Fail	27.50%	-24.7%	Fail	39.18%	-7.7%	Pass	Fail	
2F	26	SW	21.20%	35.55%	Fail	27.49%	-22.9%	Fail	37.77%	-5.9%	Pass	Fail	
2F	27	SW	22.63%	36.74%	Fail	27.52%	-17.8%	Pass	37.71%	-2.6%	Pass	Pass	
2F	28	SW	24.60%	39.75%	Fail	28.30%	-13.1%	Pass	39.26%	1.2%	Pass	Pass	
2F	29	SW	25.07%	38.70%	Pass	27.43%	-8.6%	Pass	36.39%	6.3%	Pass	Pass	
2F	30	SW	25.31%	38.16%	Pass	26.71%	-5.2%	Pass	35.54%	7.4%	Pass	Pass	
2F	31	SW	26.05%	41.07%	Pass	27.27%	-4.5%	Pass	37.41%	9.8%	Pass	Pass	
2F	32	SW	25.06%	37.04%	Pass	24.84%	0.9%	Pass	30.36%	22.0%	Pass	Pass	
	11		Passing windows			5	Passing windows						7
3F	33	SW	45.97%	67.19%	Pass	61.47%	-25.2%	Fail	78.18%	-14.1%	Pass	Pass	
3F	34	SW	15.60%	35.62%	Fail	25.86%	-39.7%	Fail	40.64%	-12.4%	Pass	Fail	
3F	35	SW	20.24%	36.18%	Fail	27.59%	-26.6%	Fail	39.88%	-9.3%	Pass	Fail	
3F	36	SW	20.83%	36.41%	Fail	28.51%	-26.9%	Fail	40.39%	-9.9%	Pass	Fail	
3F	37	SW	21.58%	35.97%	Fail	27.91%	-22.7%	Fail	38.75%	-7.2%	Pass	Fail	
3F	38	SW	22.99%	37.22%	Fail	27.89%	-17.6%	Pass	38.69%	-3.8%	Pass	Pass	
3F	39	SW	24.26%	38.44%	Fail	28.80%	-15.8%	Pass	40.58%	-5.3%	Pass	Pass	
3F	40	SW	24.17%	36.39%	Fail	28.20%	-14.3%	Pass	38.34%	-5.1%	Pass	Pass	
3F	41	SW	24.43%	35.69%	Fail	27.86%	-12.3%	Pass	37.49%	-4.8%	Pass	Pass	
3F	42	SW	25.15%	37.78%	Pass	28.61%	-12.1%	Pass	38.52%	-1.9%	Pass	Pass	
3F	43	SW	25.67%	37.97%	Pass	28.90%	-11.2%	Pass	38.82%	-2.2%	Pass	Pass	
3F	44	SW	22.45%	28.50%	Fail	25.10%	-10.6%	Pass	28.64%	-0.5%	Pass	Pass	
	12		Passing windows			3	Passing windows						8
4F	45	SW	47.24%	69.12%	Pass	62.02%	-23.8%	Fail	78.18%	-11.6%	Pass	Pass	
4F	46	SW	51.55%	72.80%	Pass	63.73%	-19.1%	Pass	78.05%	-6.7%	Pass	Pass	
4F	47	SW	50.49%	69.95%	Pass	62.77%	-19.6%	Pass	75.25%	-7.0%	Pass	Pass	
4F	48	SW	51.21%	70.11%	Pass	63.61%	-19.5%	Pass	76.34%	-8.2%	Pass	Pass	
4F	49	SW	54.34%	71.81%	Pass	63.50%	-14.4%	Pass	75.88%	-5.4%	Pass	Pass	
4F	50	SW	54.85%	70.54%	Pass	63.12%	-13.1%	Pass	74.71%	-5.6%	Pass	Pass	
4F	51	SW	56.49%	72.51%	Pass	64.96%	-13.0%	Pass	77.96%	-7.0%	Pass	Pass	
4F	52	SW	56.70%	70.46%	Pass	64.18%	-11.7%	Pass	75.38%	-6.5%	Pass	Pass	
4F	53	SW	57.47%	70.59%	Pass	63.12%	-9.0%	Pass	73.53%	-4.0%	Pass	Pass	
4F	54	SW	58.39%	71.64%	Pass	64.12%	-8.9%	Pass	73.77%	-2.9%	Pass	Pass	
4F	55	SW	58.39%	71.64%	Pass	64.89%	-10.0%	Pass	75.15%	-4.7%	Pass	Pass	
4F	56	SW	59.99%	71.18%	Pass	64.69%	-7.3%	Pass	73.00%	-2.5%	Pass	Pass	
	12		Passing windows			12	Passing windows						12
5F	57	SW	49.74%	69.19%	Pass	63.55%	-21.7%	Fail	78.18%	-11.5%	Pass	Pass	
5F	58	SW	20.64%	38.90%	Fail	27.19%	-24.1%	Fail	41.60%	-6.5%	Pass	Fail	
5F	59	SW	21.49%	38.15%	Fail	29.34%	-26.8%	Fail	40.72%	-6.3%	Pass	Fail	
5F	60	SW	22.20%	38.80%	Fail	29.27%	-24.2%	Fail	40.96%	-5.3%	Pass	Fail	
5F	61	SW	23.38%	39.25%	Fail	29.05%	-19.5%	Pass	40.65%	-3.4%	Pass	Pass	
5F	62	SW	24.31%	39.96%	Fail	29.31%	-17.1%	Pass	41.33%	-3.3%	Pass	Pass	
5F	63	SW	25.09%	40.81%	Pass	29.82%	-15.9%	Pass	42.19%	-3.3%	Pass	Pass	
5F	64	SW	25.26%	39.15%	Pass	29.29%	-13.8%	Pass	40.12%	-2.4%	Pass	Pass	
5F	65	SW	26.25%	39.47%	Pass	29.36%	-10.6%	Pass	40.29%	-2.0%	Pass	Pass	
5F	66	SW	27.06%	40.37%	Pass	29.76%	-9.1%	Pass	40.42%	-0.1%	Pass	Pass	
5F	67	SW	27.17%	40.60%	Pass	30.21%	-10.1%	Pass	40.60%	0.0%	Pass	Pass	
5F	68	SW	23.40%	30.30%	Fail	26.57%	-11.9%	Pass	30.30%	0.0%	Pass	Pass	
	12		Passing windows			6	Passing windows						9

Building 8B - Thurlow Street SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
6F	69	SW	50.24%	69.34%	Pass	63.71%	-21.1%	Fail	78.18%	-11.3%	Pass	Pass
6F	70	SW	20.97%	38.89%	Fail	27.45%	-23.6%	Fail	41.44%	-6.2%	Pass	Fail
6F	71	SW	21.54%	38.37%	Fail	29.43%	-26.8%	Fail	40.56%	-5.4%	Pass	Fail
6F	72	SW	23.47%	40.15%	Fail	29.44%	-20.3%	Fail	40.59%	-1.1%	Pass	Fail
6F	73	SW	24.14%	40.27%	Fail	29.32%	-17.7%	Pass	40.27%	0.0%	Pass	Pass
6F	74	SW	25.04%	40.87%	Pass	29.56%	-15.3%	Pass	40.87%	0.0%	Pass	Pass
6F	75	SW	25.73%	41.72%	Pass	29.84%	-13.8%	Pass	41.72%	0.0%	Pass	Pass
6F	76	SW	25.90%	39.65%	Pass	29.18%	-11.2%	Pass	39.65%	0.0%	Pass	Pass
6F	77	SW	26.44%	39.83%	Pass	29.64%	-10.8%	Pass	39.83%	0.0%	Pass	Pass
6F	78	SW	26.91%	39.96%	Pass	30.23%	-11.0%	Pass	39.96%	0.0%	Pass	Pass
6F	79	SW	27.22%	40.14%	Pass	30.31%	-10.2%	Pass	40.14%	0.0%	Pass	Pass
6F	80	SW	23.85%	30.20%	Fail	26.11%	-8.7%	Pass	30.20%	0.0%	Pass	Pass
12	Passing windows					7	Passing windows					9
7F	81	SW	53.60%	69.86%	Pass	65.63%	-18.3%	Pass	78.18%	-10.6%	Pass	Pass
7F	82	SW	54.59%	73.91%	Pass	65.88%	-16.2%	Pass	76.36%	-3.2%	Pass	Pass
7F	83	SW	54.67%	74.14%	Pass	64.70%	-15.5%	Pass	75.09%	-1.3%	Pass	Pass
7F	84	SW	56.89%	75.97%	Pass	64.48%	-11.8%	Pass	74.52%	1.9%	Pass	Pass
7F	85	SW	57.45%	75.91%	Pass	64.31%	-10.7%	Pass	74.09%	2.5%	Pass	Pass
7F	86	SW	58.30%	76.43%	Pass	64.45%	-9.5%	Pass	74.61%	2.4%	Pass	Pass
7F	87	SW	60.36%	78.18%	Pass	65.51%	-7.9%	Pass	76.36%	2.4%	Pass	Pass
7F	88	SW	59.81%	75.89%	Pass	64.84%	-7.8%	Pass	74.07%	2.5%	Pass	Pass
7F	89	SW	60.00%	74.90%	Pass	64.46%	-6.9%	Pass	73.08%	2.5%	Pass	Pass
7F	90	SW	60.25%	75.36%	Pass	64.72%	-6.9%	Pass	73.53%	2.5%	Pass	Pass
7F	91	SW	61.57%	76.54%	Pass	65.09%	-5.4%	Pass	74.72%	2.4%	Pass	Pass
7F	92	SW	60.81%	71.85%	Pass	63.91%	-4.9%	Pass	71.85%	0.0%	Pass	Pass
12	Passing windows					12	Passing windows					12
8F	93	SW	50.24%	69.34%	Pass	66.33%	-24.3%	Fail	78.18%	-11.3%	Pass	Pass
8F	94	SW	20.97%	38.89%	Fail	27.45%	-23.6%	Fail	41.44%	-6.2%	Pass	Fail
8F	95	SW	21.54%	38.37%	Fail	29.43%	-26.8%	Fail	40.56%	-5.4%	Pass	Fail
8F	96	SW	23.47%	40.15%	Fail	29.44%	-20.3%	Fail	40.59%	-1.1%	Pass	Fail
8F	97	SW	24.14%	40.27%	Fail	29.32%	-17.7%	Pass	40.27%	0.0%	Pass	Pass
8F	98	SW	25.04%	40.87%	Pass	29.56%	-15.3%	Pass	40.87%	0.0%	Pass	Pass
8F	99	SW	25.73%	41.72%	Pass	29.84%	-13.8%	Pass	41.72%	0.0%	Pass	Pass
8F	100	SW	25.90%	39.65%	Pass	29.18%	-11.2%	Pass	39.65%	0.0%	Pass	Pass
8F	101	SW	26.44%	39.83%	Pass	29.64%	-10.8%	Pass	39.83%	0.0%	Pass	Pass
8F	102	SW	26.91%	39.96%	Pass	30.23%	-11.0%	Pass	39.96%	0.0%	Pass	Pass
8F	103	SW	27.22%	40.14%	Pass	30.31%	-10.2%	Pass	40.14%	0.0%	Pass	Pass
8F	104	SW	23.85%	30.20%	Fail	26.11%	-8.7%	Pass	30.20%	0.0%	Pass	Pass
12	Passing windows					7	Passing windows					9
Building 1 - Number of passing windows												87

Building 8C - Thurlow Street



Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 8C - Thurlow Street					
GF	1	37.39	35.41	-5.3%	Pass
GF	2	36.71	38.66	5.3%	Pass
GF	3	37.04	35.05	-5.4%	Pass
GF	4	37.43	35.59	-4.9%	Pass
GF	5	37.12	36.18	-2.5%	Pass
GF	6	37.31	36.33	-2.6%	Pass
GF	7	37.69	36.68	-2.7%	Pass
GF	8	37.62	36.86	-2.0%	Pass
GF	9	37.87	36.85	-2.7%	Pass
GF	10	37.59	36.85	-2.0%	Pass
	10	Passing windows			10
1F	11	38.65	36.38	-5.9%	Pass
1F	12	38.06	36.23	-4.8%	Pass
1F	13	37.98	36.68	-3.4%	Pass
1F	14	37.98	37.18	-2.1%	Pass
1F	15	37.96	36.88	-2.8%	Pass
1F	16	38.03	37.23	-2.1%	Pass
1F	17	38.57	37.14	-3.7%	Pass
1F	18	38.17	37.44	-1.9%	Pass
1F	19	38.21	37.82	-1.0%	Pass
1F	20	38.34	38.05	-0.8%	Pass
	10	Passing windows			10
2F	21	38.76	36.71	-5.3%	Pass
2F	22	19.6	17.64	-10.0%	Pass
2F	23	19.49	17.15	-12.0%	Pass
2F	24	19.74	17.57	-11.0%	Pass
2F	25	19.56	17.02	-13.0%	Pass
2F	26	19.49	17.54	-10.0%	Pass
2F	27	19.81	17.04	-14.0%	Pass
2F	28	20.26	17.83	-12.0%	Pass
2F	29	20.32	18.69	-8.0%	Pass
2F	30	20.13	18.62	-7.5%	Pass
	10	Passing windows			10

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
3F	31	38.76	37.1	-4.3%	Pass
3F	32	19.7	17.73	-10.0%	Pass
3F	33	19.83	17.45	-12.0%	Pass
3F	34	19.94	17.75	-11.0%	Pass
3F	35	20	17.40	-13.0%	Pass
3F	36	19.49	17.54	-10.0%	Pass
3F	37	20.03	17.23	-14.0%	Pass
3F	38	20.56	18.09	-12.0%	Pass
3F	39	20.32	18.69	-8.0%	Pass
3F	40	19.75	18.27	-7.5%	Pass
	10	Passing windows			10
4F	41	39	37.5	-3.8%	Pass
4F	42	38.92	37.72	-3.1%	Pass
4F	43	38.76	37.98	-2.0%	Pass
4F	44	32.23	38.19	18.5%	Pass
4F	45	39.09	38.06	-2.6%	Pass
4F	46	38.95	38.17	-2.0%	Pass
4F	47	39	38.47	-1.4%	Pass
4F	48	39.33	38.61	-1.8%	Pass
4F	49	39.39	38.88	-1.3%	Pass
4F	50	39.22	38.98	-0.6%	Pass
	10	Passing windows			10
5F	51	39	37.38	-4.2%	Pass
5F	52	20.31	18.279	-10.0%	Pass
5F	53	21.21	18.66	-12.0%	Pass
5F	54	20.03	17.83	-11.0%	Pass
5F	55	20.7	18.01	-13.0%	Pass
5F	56	20.19	18.17	-10.0%	Pass
5F	57	19.94	17.15	-14.0%	Pass
5F	58	20.27	17.84	-12.0%	Pass
5F	59	20.5	18.86	-8.0%	Pass
5F	60	19.75	18.27	-7.5%	Pass
	10	Passing windows			10

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
6F	61	38.63	37.76	-2.3%	Pass
6F	62	20.31	18.279	-10.0%	Pass
6F	63	20.27	17.84	-12.0%	Pass
6F	64	20.26	18.03	-11.0%	Pass
6F	65	20.7	18.01	-13.0%	Pass
6F	66	20.19	18.17	-10.0%	Pass
6F	67	20.06	17.25	-14.0%	Pass
6F	68	20.53	18.07	-12.0%	Pass
6F	69	20.58	18.93	-8.0%	Pass
6F	70	20.32	18.80	-7.5%	Pass
	10	Passing windows			10
7F	71	38.83	38.17	-1.7%	Pass
7F	72	39.28	38.16	-2.9%	Pass
7F	73	39.15	39.34	0.5%	Pass
7F	74	39.01	38.58	-1.1%	Pass
7F	75	39.24	38.84	-1.0%	Pass
7F	76	39.32	38.72	-1.5%	Pass
7F	77	39.15	39.09	-0.2%	Pass
7F	78	39.35	39.06	-0.7%	Pass
7F	79	39.45	39.4	-0.1%	Pass
7F	80	39.28	39.36	0.2%	Pass
	10	Passing windows			10
8F	81	38.99	38.51	-1.2%	Pass
8F	82	20.31	18.279	-10.0%	Pass
8F	83	20.27	17.84	-12.0%	Pass
8F	84	20.47	18.22	-11.0%	Pass
8F	85	20.7	18.01	-13.0%	Pass
8F	86	20.2	18.18	-10.0%	Pass
8F	87	20.41	17.55	-14.0%	Pass
8F	88	20.35	17.91	-12.0%	Pass
8F	89	20.5	18.86	-8.0%	Pass
8F	90	20.32	18.80	-7.5%	Pass
	10	Passing windows			10
Number of passing windows					95

Building 8C - Thurlow Street

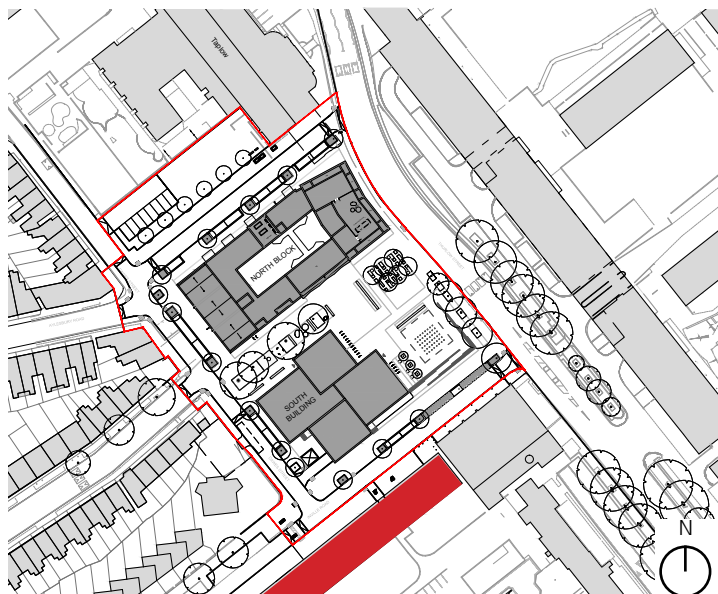
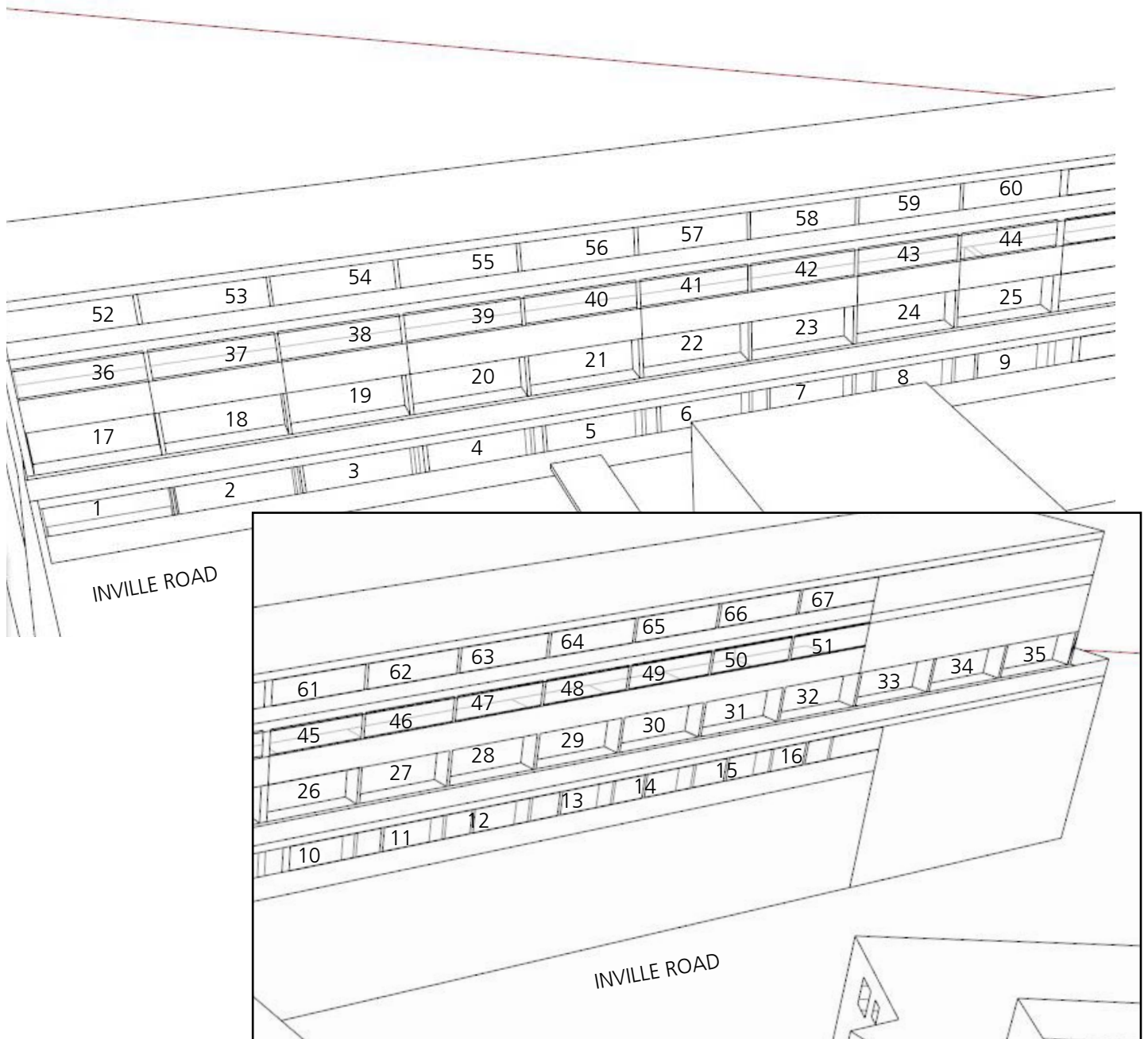
SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Condition
Building 8C - Thurlow Street												
			Proposed condition			Existing condition						
GF	1	SW	55.26%	62.39%	Pass	58.95%	-6.3%	Pass	64.21%	-2.8%	Pass	Pass
GF	2	SW	54.72%	66.08%	Pass	57.18%	-4.3%	Pass	67.61%	-2.3%	Pass	Pass
GF	3	SW	58.80%	69.99%	Pass	61.96%	-5.1%	Pass	70.69%	-1.0%	Pass	Pass
GF	4	SW	59.45%	71.86%	Pass	62.13%	-4.3%	Pass	71.86%	0.0%	Pass	Pass
GF	5	SW	59.78%	73.01%	Pass	62.56%	-4.4%	Pass	73.01%	0.0%	Pass	Pass
GF	6	SW	59.13%	73.71%	Pass	62.37%	-5.2%	Pass	74.90%	-1.6%	Pass	Pass
GF	7	SW	59.91%	74.29%	Pass	63.16%	-5.1%	Pass	75.54%	-1.7%	Pass	Pass
GF	8	SW	60.40%	75.80%	Pass	63.18%	-4.4%	Pass	75.80%	0.0%	Pass	Pass
GF	9	SW	60.22%	76.37%	Pass	62.84%	-4.2%	Pass	76.37%	0.0%	Pass	Pass
GF	10	SW	59.42%	70.28%	Pass	61.37%	-3.2%	Pass	70.28%	0.0%	Pass	Pass
			Passing windows			Passing windows						10
1F	11	SW	58.78%	68.80%	Pass	62.16%	-5.4%	Pass	70.38%	-2.2%	Pass	Pass
1F	12	SW	57.45%	68.04%	Pass	60.75%	-5.4%	Pass	68.50%	-0.7%	Pass	Pass
1F	13	SW	60.29%	71.16%	Pass	62.57%	-3.6%	Pass	70.98%	0.3%	Pass	Pass
1F	14	SW	59.82%	72.06%	Pass	62.37%	-4.1%	Pass	72.06%	0.0%	Pass	Pass
1F	15	SW	60.02%	73.02%	Pass	62.57%	-4.1%	Pass	73.02%	0.0%	Pass	Pass
1F	16	SW	59.95%	73.71%	Pass	62.90%	-4.7%	Pass	75.04%	-1.8%	Pass	Pass
1F	17	SW	60.94%	74.29%	Pass	63.19%	-3.6%	Pass	75.54%	-1.7%	Pass	Pass
1F	18	SW	62.23%	75.80%	Pass	63.18%	-1.5%	Pass	75.80%	0.0%	Pass	Pass
1F	19	SW	62.14%	76.37%	Pass	62.84%	-1.1%	Pass	76.37%	0.0%	Pass	Pass
1F	20	SW	63.17%	76.37%	Pass	63.86%	-1.1%	Pass	76.37%	0.0%	Pass	Pass
			Passing windows			Passing windows						10
2F	21	SW	60.56%	71.62%	Pass	63.15%	-4.1%	Pass	71.62%	0.0%	Pass	Pass
2F	22	SW	24.72%	37.45%	Fail	26.07%	-5.2%	Pass	37.30%	0.4%	Pass	Pass
2F	23	SW	27.43%	40.15%	Pass	29.81%	-8.0%	Pass	39.79%	0.9%	Pass	Pass
2F	24	SW	26.76%	39.31%	Pass	29.60%	-9.6%	Pass	39.31%	0.0%	Pass	Pass
2F	25	SW	26.97%	39.85%	Pass	30.23%	-10.8%	Pass	39.85%	0.0%	Pass	Pass
2F	26	SW	28.06%	40.20%	Pass	30.65%	-8.5%	Pass	41.07%	-2.1%	Pass	Pass
2F	27	SW	28.70%	40.67%	Pass	30.63%	-6.3%	Pass	41.48%	-2.0%	Pass	Pass
2F	28	SW	29.30%	41.52%	Pass	30.84%	-5.0%	Pass	41.52%	0.0%	Pass	Pass
2F	29	SW	29.52%	40.78%	Pass	30.20%	-2.3%	Pass	40.78%	0.0%	Pass	Pass
2F	30	SW	25.07%	31.20%	Pass	25.83%	-2.9%	Pass	31.20%	0.0%	Pass	Pass
			Passing windows			Passing windows						10
3F	31	SW	61.18%	73.26%	Pass	65.13%	-6.1%	Pass	74.50%	-1.7%	Pass	Pass
3F	32	SW	23.30%	35.15%	Fail	24.85%	-6.2%	Pass	35.68%	-1.5%	Pass	Pass
3F	33	SW	25.64%	36.94%	Pass	27.78%	-7.7%	Pass	36.77%	0.5%	Pass	Pass
3F	34	SW	24.97%	36.13%	Fail	27.18%	-8.1%	Pass	36.13%	0.0%	Pass	Pass
3F	35	SW	25.10%	36.45%	Pass	27.36%	-8.3%	Pass	36.71%	-0.7%	Pass	Pass
3F	36	SW	25.51%	36.81%	Pass	27.73%	-8.0%	Pass	37.83%	-2.7%	Pass	Pass
3F	37	SW	25.83%	37.72%	Pass	27.71%	-6.8%	Pass	38.53%	-2.1%	Pass	Pass
3F	38	SW	26.73%	39.28%	Pass	28.11%	-4.9%	Pass	39.28%	0.0%	Pass	Pass
3F	39	SW	26.46%	39.41%	Pass	27.72%	-4.5%	Pass	39.41%	0.0%	Pass	Pass
3F	40	SW	23.76%	31.60%	Fail	25.17%	-5.6%	Pass	32.02%	-1.3%	Pass	Pass
			Passing windows			Passing windows						10
4F	41	SW	61.75%	74.74%	Pass	65.39%	-5.6%	Pass	75.19%	-0.6%	Pass	Pass
4F	42	SW	60.99%	73.88%	Pass	65.95%	-7.5%	Pass	78.18%	-5.5%	Pass	Pass
4F	43	SW	62.12%	75.37%	Pass	65.38%	-5.0%	Pass	78.18%	-3.6%	Pass	Pass
4F	44	SW	61.57%	75.42%	Pass	65.28%	-5.7%	Pass	77.62%	-2.8%	Pass	Pass
4F	45	SW	61.57%	74.91%	Pass	65.27%	-5.7%	Pass	77.34%	-3.1%	Pass	Pass
4F	46	SW	62.33%	74.49%	Pass	65.52%	-4.9%	Pass	76.11%	-2.1%	Pass	Pass
4F	47	SW	63.05%	76.45%	Pass	65.04%	-3.1%	Pass	75.81%	0.8%	Pass	Pass
4F	48	SW	63.90%	77.62%	Pass	65.05%	-1.8%	Pass	75.45%	2.9%	Pass	Pass
4F	49	SW	63.99%	78.18%	Pass	65.59%	-2.4%	Pass	75.37%	3.7%	Pass	Pass
4F	50	SW	65.20%	78.18%	Pass	64.45%	1.2%	Pass	73.89%	5.8%	Pass	Pass
			Passing windows			Passing windows						10
5F	51	SW	61.98%	75.19%	Pass	65.39%	-5.2%	Pass	75.19%	0.0%	Pass	Pass
5F	52	SW	26.10%	40.26%	Pass	29.31%	-11.0%	Pass	40.25%	0.0%	Pass	Pass
5F	53	SW	28.33%	41.31%	Pass	32.04%	-11.6%	Pass	41.31%	0.0%	Pass	Pass
5F	54	SW	28.73%	41.37%	Pass	31.71%	-9.4%	Pass	41.37%	0.0%	Pass	Pass
5F	55	SW	29.81%	41.62%	Pass	31.91%	-6.6%	Pass	41.62%	0.0%	Pass	Pass
5F	56	SW	30.47%	41.78%	Pass	32.02%	-4.8%	Pass	41.78%	0.0%	Pass	Pass
5F	57	SW	30.97%	42.61%	Pass	31.88%	-2.9%	Pass	42.61%	0.0%	Pass	Pass
5F	58	SW	31.62%	42.67%	Pass	32.19%	-1.8%	Pass	42.67%	0.0%	Pass	Pass
5F	59	SW	31.24%	41.94%	Pass	31.68%	-1.4%	Pass	41.94%	0.0%	Pass	Pass
5F	60	SW	26.67%	32.39%	Pass	26.84%	-0.6%	Pass	32.39%	0.0%	Pass	Pass
			Passing windows			Passing windows						10
6F	61	SW	62.57%	75.19%	Pass	65.40%	-4.3%	Pass	75.19%	0.0%	Pass	Pass
6F	62	SW	24.52%	36.89%	Fail	25.51%	-3.9%	Pass	36.89%	0.0%	Pass	Pass
6F	63	SW	26.45%	37.91%	Pass	28.21%	-6.2%	Pass	37.91%	0.0%	Pass	Pass
6F	64	SW	26.13%	37.98%	Pass	27.88%	-6.3%	Pass	37.98%	0.0%	Pass	Pass
6F	65	SW	26.54%	38.23%	Pass	28.18%	-5.8%	Pass	38.23%	0.0%	Pass	Pass
6F	66	SW	27.14%	38.39%	Pass	28.19%	-3.7%	Pass	38.39%	0.0%	Pass	Pass
6F	67	SW	27.54%	39.22%	Pass	28.05%	-1.8%	Pass	39.22%	0.0%	Pass	Pass
6F	68	SW	28.17%	39.28%	Pass	28.36%	-0.7%	Pass	39.28%	0.0%	Pass	Pass
6F	69	SW	28.25%	39.41%	Pass	28.25%	0.0%	Pass	39.41%	0.0%	Pass	Pass
6F	70	SW	25.24%	32.02%	Pass	25.24%	0.0%	Pass	32.02%	0.0%	Pass	Pass
			Passing windows			Passing windows						10

Building 8C - Thurlow Street SUNLIGHT

Floor	Window ID	Window orientation	Annual APSH	Winter APSH	Condition	Annual APSH	Losses/Gains	Condition (Annual)	Winter APSH	Losses/Gains	Condition (Winter)	Conditon	
7F	71	SW	62.75%	75.19%	Pass	65.52%	-4.2%	Pass	75.19%	0.0%	Pass	Pass	
7F	72	SW	62.26%	75.37%	Pass	64.78%	-3.9%	Pass	73.89%	2.0%	Pass	Pass	
7F	73	SW	63.36%	75.45%	Pass	65.59%	-3.4%	Pass	75.37%	0.1%	Pass	Pass	
7F	74	SW	63.16%	75.81%	Pass	65.18%	-3.1%	Pass	75.45%	0.5%	Pass	Pass	
7F	75	SW	64.04%	76.11%	Pass	65.72%	-2.6%	Pass	75.81%	0.4%	Pass	Pass	
7F	76	SW	64.59%	64.59%	Pass	65.52%	-1.4%	Pass	75.11%	-14.0%	Pass	Pass	
7F	77	SW	64.86%	77.34%	Pass	65.27%	-0.6%	Pass	77.34%	0.0%	Pass	Pass	
7F	78	SW	66.14%	77.62%	Pass	66.14%	0.0%	Pass	77.62%	0.0%	Pass	Pass	
7F	79	SW	66.14%	77.62%	Pass	65.77%	0.6%	Pass	78.18%	-0.7%	Pass	Pass	
7F	80	SW	65.95%	78.18%	Pass	65.95%	0.0%	Pass	78.18%	0.0%	Pass	Pass	
	10		Passing windows			10	Passing windows			10			
8F	81	SW	63.03%	75.94%	Pass	65.81%	-4.2%	Pass	75.94%	0.0%	Pass	Pass	
8F	82	SW	37.90%	49.50%	Pass	38.97%	-2.7%	Pass	49.78%	-0.6%	Pass	Pass	
8F	83	SW	40.01%	50.61%	Pass	41.59%	-3.8%	Pass	50.90%	-0.6%	Pass	Pass	
8F	84	SW	40.01%	50.96%	Pass	51.35%	-22.1%	Fail	51.01%	-0.1%	Pass	Pass	
8F	85	SW	40.44%	51.21%	Pass	41.73%	-3.1%	Pass	51.26%	-0.1%	Pass	Pass	
8F	86	SW	40.82%	51.37%	Pass	41.71%	-2.1%	Pass	51.75%	-0.7%	Pass	Pass	
8F	87	SW	41.28%	52.20%	Pass	41.70%	-1.0%	Pass	52.59%	-0.7%	Pass	Pass	
8F	88	SW	41.89%	52.26%	Pass	42.17%	-0.7%	Pass	52.65%	-0.7%	Pass	Pass	
8F	89	SW	41.46%	51.89%	Pass	41.59%	-0.3%	Pass	52.22%	-0.6%	Pass	Pass	
8F	90	SW	33.32%	36.76%	Pass	33.43%	-0.3%	Pass	37.04%	-0.8%	Pass	Pass	
	10		Passing windows			10	Passing windows			10			
Building 1 - Number of passing windows												90	

Building 9 - Inville Road



Building 9 - Inville Road
 DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
Building 9 - Inville Road					
GF	1	33.51	24.04	-28.3%	Fail
GF	2	33.76	25.18	-25.4%	Fail
GF	3	33.15	25.39	-23.4%	Fail
GF	4	31.08	26.58	-14.5%	Pass
GF	5	22.73	28.46	25.2%	Pass
GF	6	30.84	30.52	-1.0%	Pass
GF	7	32.3	31.86	-1.4%	Pass
GF	8	33.01	32.7	-0.9%	Pass
GF	9	33.73	33.28	-1.3%	Pass
GF	10	34.3	33.37	-2.7%	Pass
GF	11	34.27	33.67	-1.8%	Pass
GF	12	34.54	33.92	-1.8%	Pass
GF	13	34.5	33.84	-1.9%	Pass
GF	14	34.83	34.11	-2.1%	Pass
GF	15	34.9	34.63	-0.8%	Pass
GF	16	35.71	35.01	-2.0%	Pass
	16			Passing windows	13

Building 9 - Inville Road
 DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
1F	17	17.32	11.26	-35.0%	Fail
1F	18	16.95	11.51	-32.1%	Fail
1F	19	16.86	12.05	-28.5%	Fail
1F	20	16.44	13.14	-20.1%	Fail
1F	21	16.15	10.90	-32.5%	Fail
1F	22	15.92	10.71	-32.7%	Fail
1F	23	16.42	15.27	-7.0%	Pass
1F	24	16.87	15.55	-7.8%	Pass
1F	25	17.5	16.00	-8.6%	Pass
1F	26	17.7	15.91	-10.1%	Pass
1F	27	17.83	15.87	-11.0%	Pass
1F	28	17.65	15.92	-9.8%	Pass
1F	29	17.73	16.24	-8.4%	Pass
1F	30	18.35	16.92	-7.8%	Pass
1F	31	18.95	17.72	-6.5%	Pass
1F	32	19.05	17.85	-6.3%	Pass
1F	33	19.15	17.69	-7.6%	Pass
1F	34	19.3	17.99	-6.8%	Pass
1F	35	19.45	21.01	8.0%	Pass
	19	Passing windows			13

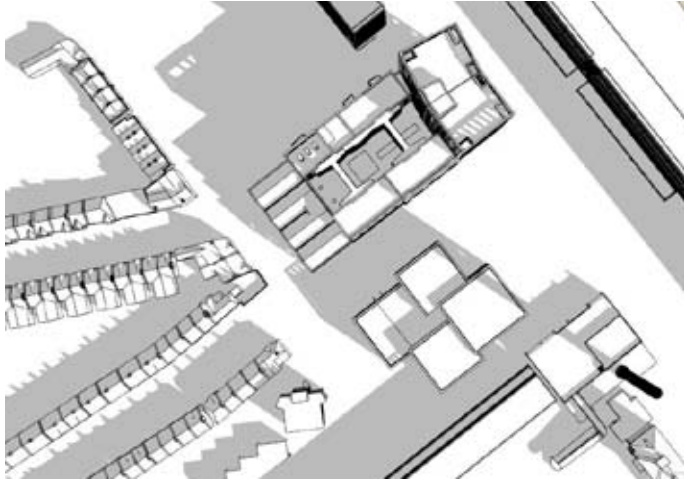
Building 9 - Inville Road
DAYLIGHT

Floor	Window ID	Existing VSC (%)	Proposed VSC (%)	Difference (%)	Condition
2F	36	36.21	35.59	-1.7%	Pass
2F	37	36.4	30.28	-16.8%	Pass
2F	38	35.62	30.72	-13.8%	Pass
2F	39	35.47	31.16	-12.2%	Pass
2F	40	35.99	32.88	-8.6%	Pass
2F	41	36.71	33.82	-7.9%	Pass
2F	42	36.87	34.73	-5.8%	Pass
2F	43	36.95	35.2	-4.7%	Pass
2F	44	36.4	35.56	-2.3%	Pass
2F	45	37.11	35.68	-3.9%	Pass
2F	46	37.31	36.17	-3.1%	Pass
2F	47	37.63	36.57	-2.8%	Pass
2F	48	37.59	36.63	-2.6%	Pass
2F	49	37.6	36.87	-1.9%	Pass
2F	50	37.86	37.32	-1.4%	Pass
2F	51	38.07	37.57	-1.3%	Pass
	16	Passing windows			16
3F	52	37.52	31.93	-14.9%	Pass
3F	53	37.52	32.29	-13.9%	Pass
3F	54	37.52	32.74	-12.7%	Pass
3F	55	37.06	33.15	-10.6%	Pass
3F	56	37.87	34.62	-8.6%	Pass
3F	57	37.44	35.38	-5.5%	Pass
3F	58	37.92	36.14	-4.7%	Pass
3F	59	37.88	36.37	-4.0%	Pass
3F	60	37.84	36.84	-2.6%	Pass
3F	61	38.15	36.79	-3.6%	Pass
3F	62	38.19	37	-3.1%	Pass
3F	63	38.66	37.4	-3.3%	Pass
3F	64	38.82	37.54	-3.3%	Pass
3F	65	38.51	37.8	-1.8%	Pass
3F	66	38.71	38.12	-1.5%	Pass
3F	67	38.65	38.2	-1.2%	Pass
	16	Passing windows			16
Number of passing windows					287

Appendix B Shadow range

Shadow range - 21st March

21st March (Equinox)



09:00 am



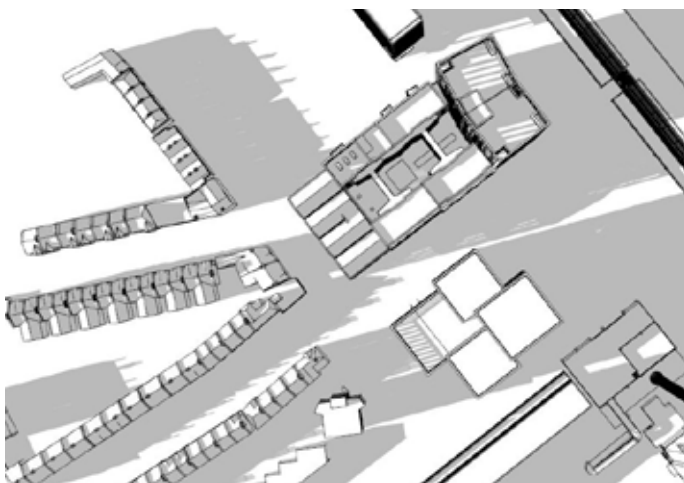
11:00 am



13:00 am



15:00 pm



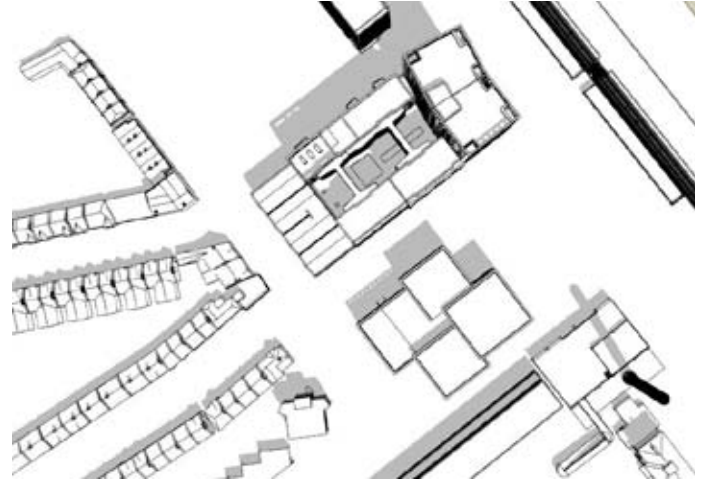
17:00 am

Shadow range - 21st June

21st June (Summer solstice)



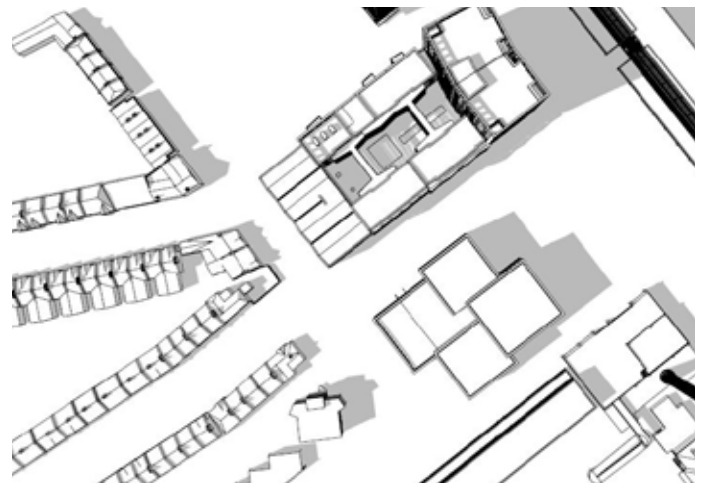
09:00 am



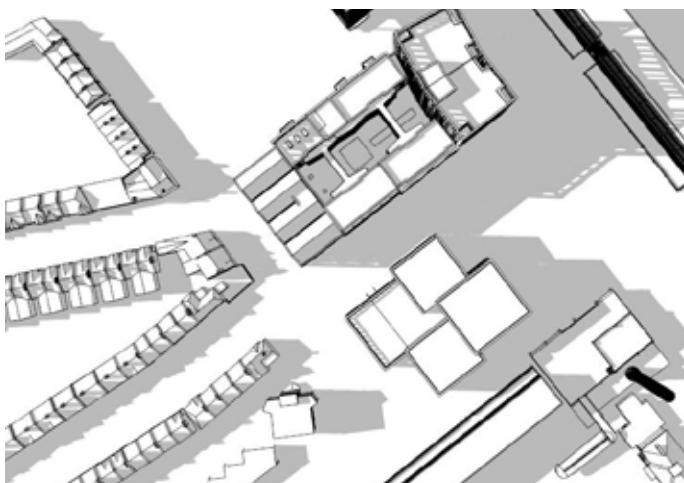
11:00 am



13:00 am



15:00 pm



17:00 pm

Appendix C

Detailed Daylight results - Proposed building

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail
BLOCK 1	1F	B1-0101-Bedroom1	Bedroom	0.6%	1%	Fail	no	92%	8%	Pass
	1F	B1-0101-Kitchen Living Dining	Kitchen/Living/Dining	2.3%	2%	Pass	no	99%	1%	Pass
	1F	B1-0102-Bedroom1	Bedroom	3.3%	1%	Pass	no	76%	24%	Fail
	1F	B1-0102-Bedroom2	Bedroom	4.3%	1%	Pass	no	97%	3%	Pass
	1F	B1-0102-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass
	1F	B1-0103-Bedroom1	Bedroom	1.0%	1%	Pass	no	76%	24%	Fail
	1F	B1-0103-Kitchen Living Dining	Kitchen/Living/Dining	2.0%	2%	Pass	no	53%	47%	Fail
	1F	B1-0104-Bedroom1	Bedroom	4.3%	1%	Pass	no	95%	5%	Pass
	1F	B1-0104-Kitchen Living Dining	Kitchen/Living/Dining	4.7%	2%	Pass	no	100%	0%	Pass
	1F	B1-0105-Bedroom1	Bedroom	1.1%	1%	Pass	no	100%	0%	Pass
	1F	B1-0105-Kitchen Living Dining	Kitchen/Living/Dining	2.7%	2%	Pass	no	100%	0%	Pass
		11	11	Passing rooms	10		0	Passing rooms		8
2F	B1-0201-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
2F	B1-0201-Kitchen Living Dining	Kitchen/Living/Dining	2.4%	2%	Pass	no	100%	0%	Pass	
2F	B1-0202-Bedroom1	Bedroom	3.6%	1%	Pass	no	85%	15%	Pass	
2F	B1-0202-Bedroom2	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
2F	B1-0202-Kitchen Living Dining	Kitchen/Living/Dining	4.2%	2%	Pass	no	100%	0%	Pass	
2F	B1-0203-Bedroom1	Bedroom	1.3%	1%	Pass	no	98%	2%	Pass	
2F	B1-0203-Kitchen Living Dining	Kitchen/Living/Dining	2.2%	2%	Pass	no	59%	41%	Fail	
2F	B1-0204-Bedroom1	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
2F	B1-0204-Kitchen Living Dining	Kitchen/Living/Dining	5.0%	2%	Pass	yes	100%	0%	Pass	
2F	B1-0205-Bedroom1	Bedroom	1.2%	1%	Pass	no	100%	0%	Pass	
2F	B1-0205-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		1	Passing rooms		10
3F	B1-0301-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
3F	B1-0301-Kitchen Living Dining	Kitchen/Living/Dining	2.6%	2%	Pass	no	100%	0%	Pass	
3F	B1-0302-Bedroom1	Bedroom	3.8%	1%	Pass	no	98%	2%	Pass	
3F	B1-0302-Bedroom2	Bedroom	4.9%	1%	Pass	no	100%	0%	Pass	
3F	B1-0302-Kitchen Living Dining	Kitchen/Living/Dining	4.5%	2%	Pass	no	100%	0%	Pass	
3F	B1-0303-Bedroom1	Bedroom	1.6%	1%	Pass	no	100%	0%	Pass	
3F	B1-0303-Kitchen Living Dining	Kitchen/Living/Dining	2.3%	2%	Pass	no	64%	36%	Fail	
3F	B1-0304-Bedroom1	Bedroom	4.9%	1%	Pass	no	100%	0%	Pass	
3F	B1-0304-Kitchen Living Dining	Kitchen/Living/Dining	5.3%	2%	Pass	yes	100%	0%	Pass	
3F	B1-0305-Bedroom1	Bedroom	1.3%	1%	Pass	no	100%	0%	Pass	
3F	B1-0305-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		1	Passing rooms		10
4F	B1-0401-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass	
4F	B1-0401-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
4F	B1-0402-Bedroom1	Bedroom	4.1%	1%	Pass	no	100%	0%	Pass	
4F	B1-0402-Bedroom2	Bedroom	5.1%	1%	Pass	yes	100%	0%	Pass	
4F	B1-0402-Kitchen Living Dining	Kitchen/Living/Dining	4.9%	2%	Pass	no	100%	0%	Pass	
4F	B1-0403-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass	
4F	B1-0403-Kitchen Living Dining	Kitchen/Living/Dining	2.5%	2%	Pass	no	78%	22%	Fail	
4F	B1-0404-Bedroom1	Bedroom	5.2%	1%	Pass	yes	100%	0%	Pass	
4F	B1-0404-Kitchen Living Dining	Kitchen/Living/Dining	5.5%	2%	Pass	yes	100%	0%	Pass	
4F	B1-0405-Bedroom1	Bedroom	1.3%	1%	Pass	no	100%	0%	Pass	
4F	B1-0405-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		3	Passing rooms		10

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail
BLOCK 1	5F	B1-0501-Bedroom1	Bedroom	0.7%	1%	Fail	no	88%	12%	Pass
	5F	B1-0501-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass
	5F	B1-0502-Bedroom1	Bedroom	4.4%	1%	Pass	no	100%	0%	Pass
	5F	B1-0502-Bedroom2	Bedroom	5.3%	1%	Pass	yes	100%	0%	Pass
	5F	B1-0502-Kitchen Living Dining	Kitchen/Living/Dining	5.3%	2%	Pass	yes	100%	0%	Pass
	5F	B1-0503-Bedroom1	Bedroom	2.1%	1%	Pass	no	100%	0%	Pass
	5F	B1-0503-Kitchen Living Dining	Kitchen/Living/Dining	2.6%	2%	Pass	no	95%	5%	Pass
	5F	B1-0504-Bedroom1	Bedroom	5.5%	1%	Pass	yes	100%	0%	Pass
	5F	B1-0504-Kitchen Living Dining	Kitchen/Living/Dining	5.7%	2%	Pass	yes	100%	0%	Pass
	5F	B1-0505-Bedroom1	Bedroom	1.3%	1%	Pass	no	100%	0%	Pass
	5F	B1-0505-Kitchen Living Dining	Kitchen/Living/Dining	3.0%	2%	Pass	no	100%	0%	Pass
			11	11	Passing rooms	10		4	Passing rooms	
6F	B1-0601-Bedroom1	Bedroom	0.8%	1%	Fail	no	88%	12%	Pass	
6F	B1-0601-Kitchen Living Dining	Kitchen/Living/Dining	3.0%	2%	Pass	no	100%	0%	Pass	
6F	B1-0602-Bedroom1	Bedroom	4.5%	1%	Pass	no	100%	0%	Pass	
6F	B1-0602-Bedroom2	Bedroom	5.5%	1%	Pass	yes	100%	0%	Pass	
6F	B1-0602-Kitchen Living Dining	Kitchen/Living/Dining	5.5%	2%	Pass	yes	100%	0%	Pass	
6F	B1-0603-Bedroom1	Bedroom	2.3%	1%	Pass	no	100%	0%	Pass	
6F	B1-0603-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
6F	B1-0604-Bedroom1	Bedroom	5.7%	1%	Pass	yes	100%	0%	Pass	
6F	B1-0604-Kitchen Living Dining	Kitchen/Living/Dining	5.8%	2%	Pass	yes	100%	0%	Pass	
6F	B1-0605-Bedroom1	Bedroom	1.4%	1%	Pass	no	100%	0%	Pass	
6F	B1-0605-Kitchen Living Dining	Kitchen/Living/Dining	3.0%	2%	Pass	no	100%	0%	Pass	
		11	11	Passing rooms	10		4	Passing rooms		11
7F	B1-0701-Bedroom1	Bedroom	1.4%	1%	Pass	no	88%	12%	Pass	
7F	B1-0701-Kitchen Living Dining	Kitchen/Living/Dining	3.3%	2%	Pass	no	100%	0%	Pass	
7F	B1-0702-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass	
7F	B1-0702-Bedroom2	Bedroom	5.5%	1%	Pass	yes	100%	0%	Pass	
7F	B1-0702-Kitchen Living Dining	Kitchen/Living/Dining	5.9%	2%	Pass	yes	100%	0%	Pass	
7F	B1-0703-Bedroom1	Bedroom	2.3%	1%	Pass	no	100%	0%	Pass	
7F	B1-0703-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
7F	B1-0704-Bedroom1	Bedroom	4.2%	1%	Pass	no	100%	0%	Pass	
7F	B1-0704-Bedroom2	Bedroom	4.2%	1%	Pass	no	100%	0%	Pass	
7F	B1-0704-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass	
7F	B1-0705-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
7F	B1-0705-Kitchen Living Dining	Kitchen/Living/Dining	3.0%	2%	Pass	no	100%	0%	Pass	
		12	12	Passing rooms	12		3	Passing rooms		12
8F	B1-0801-Bedroom1	Bedroom	1.6%	1%	Pass	no	94%	6%	Pass	
8F	B1-0801-Kitchen Living Dining	Kitchen/Living/Dining	3.5%	2%	Pass	no	100%	0%	Pass	
8F	B1-0802-Bedroom1	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
8F	B1-0802-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass	
8F	B1-0802-Kitchen Living Dining	Kitchen/Living/Dining	6.0%	2%	Pass	yes	100%	0%	Pass	
8F	B1-0803-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
8F	B1-0803-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
8F	B1-0804-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
8F	B1-0804-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
8F	B1-0804-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass	
8F	B1-0805-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
8F	B1-0805-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass	
		12	12	Passing rooms	12		3	Passing rooms		12
9F	B1-0901-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
9F	B1-0901-Kitchen Living Dining	Kitchen/Living/Dining	3.7%	2%	Pass	no	100%	0%	Pass	
9F	B1-0902-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass	
9F	B1-0902-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass	
9F	B1-0902-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass	
9F	B1-0903-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
9F	B1-0903-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
9F	B1-0904-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
9F	B1-0904-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
9F	B1-0904-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass	
9F	B1-0905-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
9F	B1-0905-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass	
		12	12	Passing rooms	12		3	Passing rooms		12

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail	
BLOCK 1	10F	B1-1001-Bedroom1	Bedroom	2.0%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1001-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass	
	10F	B1-1002-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1002-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass	
	10F	B1-1002-Kitchen Living Dining	Kitchen/Living/Dining	6.3%	2%	Pass	yes	100%	0%	Pass	
	10F	B1-1003-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1003-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass	
	10F	B1-1004-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1004-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1004-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass	
	10F	B1-1005-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
	10F	B1-1005-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass	
		12	12	Passing rooms	12		3	Passing rooms		12	
11F	B1-1101-Bedroom1	Bedroom	2.0%	1%	Pass	no	100%	0%	Pass		
11F	B1-1101-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass		
11F	B1-1102-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass		
11F	B1-1102-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass		
11F	B1-1102-Kitchen Living Dining	Kitchen/Living/Dining	6.3%	2%	Pass	yes	100%	0%	Pass		
11F	B1-1103-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass		
11F	B1-1103-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass		
11F	B1-1104-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
11F	B1-1104-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
11F	B1-1104-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass		
11F	B1-1105-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass		
11F	B1-1105-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass		
		12	12	Passing rooms	12		3	Passing rooms		12	
12F	B1-1201-Bedroom1	Bedroom	2.0%	1%	Pass	no	100%	0%	Pass		
12F	B1-1201-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass		
12F	B1-1202-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass		
12F	B1-1202-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass		
12F	B1-1202-Kitchen Living Dining	Kitchen/Living/Dining	6.3%	2%	Pass	yes	100%	0%	Pass		
12F	B1-1203-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass		
12F	B1-1203-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass		
12F	B1-1204-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
12F	B1-1204-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
12F	B1-1204-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass		
12F	B1-1205-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass		
12F	B1-1205-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass		
		12	12	Passing rooms	12		3	Passing rooms		12	
13F	B1-1301-Bedroom1	Bedroom	2.1%	1%	Pass	no	100%	0%	Pass		
13F	B1-1301-Kitchen Living Dining	Kitchen/Living/Dining	3.9%	2%	Pass	no	100%	0%	Pass		
13F	B1-1302-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass		
13F	B1-1302-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass		
13F	B1-1302-Kitchen Living Dining	Kitchen/Living/Dining	6.3%	2%	Pass	yes	100%	0%	Pass		
13F	B1-1303-Bedroom1	Bedroom	2.5%	1%	Pass	no	100%	0%	Pass		
13F	B1-1303-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass		
13F	B1-1304-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
13F	B1-1304-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
13F	B1-1304-Kitchen Living Dining	Kitchen/Living/Dining	6.2%	2%	Pass	yes	100%	0%	Pass		
13F	B1-1305-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass		
13F	B1-1305-Kitchen Living Dining	Kitchen/Living/Dining	3.1%	2%	Pass	no	100%	0%	Pass		
		12	12	Passing rooms	12		3	Passing rooms		12	
14F	B1-1401-Bedroom1	Bedroom	3.0%	1%	Pass	no	100%	0%	Pass		
14F	B1-1401-Kitchen Living Dining	Kitchen/Living/Dining	4.4%	2%	Pass	no	100%	0%	Pass		
14F	B1-1402-Bedroom1	Bedroom	5.4%	1%	Pass	yes	100%	0%	Pass		
14F	B1-1402-Bedroom2	Bedroom	5.6%	1%	Pass	yes	100%	0%	Pass		
14F	B1-1402-Kitchen Living Dining	Kitchen/Living/Dining	7.0%	2%	Pass	yes	100%	0%	Pass		
14F	B1-1403-Bedroom1	Bedroom	5.0%	1%	Pass	yes	100%	0%	Pass		
14F	B1-1403-Kitchen Living Dining	Kitchen/Living/Dining	3.4%	2%	Pass	no	100%	0%	Pass		
14F	B1-1404-Bedroom1	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
14F	B1-1404-Bedroom2	Bedroom	5.1%	1%	Pass	yes	100%	0%	Pass		
14F	B1-1404-Kitchen Living Dining	Kitchen/Living/Dining	6.7%	2%	Pass	yes	100%	0%	Pass		
14F	B1-1405-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass		
14F	B1-1405-Kitchen Living Dining	Kitchen/Living/Dining	2.9%	2%	Pass	no	100%	0%	Pass		
		12	12	Passing rooms	12		6	Passing rooms		12	
Total number of rooms			162	Number of passing rooms			156	40	156		96%
							96%	25%			

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail
BLOCK 2	1F	B2-0101-Bedroom	Bedroom	2.3%	1%	Pass	no	55%	45%	Fail
	1F	B2-0101-Kitchen Living Dining	Kitchen/Living/Dining	0.7%	2%	Fail	no	38%	62%	Fail
	1F	B2-0102-Bedroom1	Bedroom	2.8%	1%	Pass	no	95%	5%	Pass
	1F	B2-0102-Bedroom2	Bedroom	2.1%	1%	Pass	no	83%	17%	Pass
	1F	B2-0102-Kitchen	Kitchen	0.4%	2%	Fail	no	66%	34%	Fail
	1F	B2-0102-Living Dining	Living/Dining	1.2%	1.5%	Fail	no	93%	7%	Pass
	1F	B2-0103-Bedroom1	Bedroom	2.2%	1%	Pass	no	100%	0%	Pass
	1F	B2-0103-Bedroom2	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass
	1F	B2-0103-Kitchen	Kitchen	0.6%	2%	Fail	no	36%	64%	Fail
	1F	B2-0103-Living Dining	Living/Dining	1.5%	1.5%	Pass	no	99%	1%	Pass
	1F	B2-0104-Bedroom1	Bedroom	2.4%	1%	Pass	no	97%	3%	Pass
	1F	B2-0104-Bedroom2	Bedroom	1.7%	1%	Pass	no	91%	9%	Pass
	1F	B2-0104-Kitchen	Kitchen	1.4%	2%	Fail	no	50%	50%	Fail
	1F	B2-0104-Living Dining	Living/Dining	1.5%	1.5%	Pass	no	91%	9%	Pass
		14	14	Passing rooms	9		0	Passing rooms	9	
2F	B2-0201-Bedroom1	Bedroom	3.1%	1%	Pass	no	91%	9%	Pass	
2F	B2-0201-Kitchen Living Dining	Kitchen/Living/Dining	1.2%	2%	Fail	no	63%	37%	Fail	
2F	B2-0202-Bedroom1	Bedroom	3.3%	1%	Pass	no	97%	3%	Pass	
2F	B2-0202-Bedroom2	Bedroom	2.3%	1%	Pass	no	83%	17%	Pass	
2F	B2-0202-Kitchen	Kitchen	0.6%	2%	Fail	no	66%	34%	Fail	
2F	B2-0202-Living Dining	Living/Dining	1.5%	1.5%	Pass	no	93%	7%	Pass	
2F	B2-0203-Bedroom1	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
2F	B2-0203-Bedroom2	Bedroom	2.6%	1%	Pass	no	100%	0%	Pass	
2F	B2-0203-Kitchen	Kitchen	1.0%	2%	Fail	no	55%	45%	Fail	
2F	B2-0203-Living Dining	Living/Dining	1.6%	1.5%	Pass	no	100%	0%	Pass	
2F	B2-0204-Bedroom1	Bedroom	2.6%	1%	Pass	no	97%	3%	Pass	
2F	B2-0204-Bedroom2	Bedroom	2.0%	1%	Pass	no	100%	0%	Pass	
2F	B2-0204-Kitchen	Kitchen	2.0%	2%	Pass	no	59%	41%	Fail	
2F	B2-0204-Living Dining	Living/Dining	1.7%	1.5%	Pass	no	96%	4%	Pass	
		14	14	Passing rooms	11		0	Passing rooms	10	
3F	B2-0301-Bedroom1	Bedroom	3.8%	1%	Pass	no	100%	0%	Pass	
3F	B2-0301-Kitchen Living Dining	Kitchen/Living/Dining	2.0%	2%	Pass	no	100%	0%	Pass	
3F	B2-0302-Bedroom1	Bedroom	3.8%	1%	Pass	no	97%	3%	Pass	
3F	B2-0302-Bedroom2	Bedroom	2.5%	1%	Pass	no	83%	17%	Pass	
3F	B2-0302-Kitchen	Kitchen	0.9%	2%	Fail	no	76%	24%	Fail	
3F	B2-0302-Living Dining	Living/Dining	1.8%	1.5%	Pass	no	93%	7%	Pass	
3F	B2-0303-Bedroom1	Bedroom	2.5%	1%	Pass	no	100%	0%	Pass	
3F	B2-0303-Bedroom2	Bedroom	2.7%	1%	Pass	no	100%	0%	Pass	
3F	B2-0303-Kitchen	Kitchen	1.4%	2%	Fail	no	68%	32%	Fail	
3F	B2-0303-Living Dining	Living/Dining	1.7%	1.5%	Pass	no	100%	0%	Pass	
3F	B2-0304-Bedroom1	Bedroom	2.8%	1%	Pass	no	97%	3%	Pass	
3F	B2-0304-Bedroom2	Bedroom	2.3%	1%	Pass	no	100%	0%	Pass	
3F	B2-0304-Kitchen	Kitchen	2.6%	2%	Pass	no	77%	23%	Fail	
3F	B2-0304-Living Dining	Living/Dining	1.9%	1.5%	Pass	no	100%	0%	Pass	
		14	14	Passing rooms	12		0	Passing rooms	11	
4F	B2-0401-Bedroom1	Bedroom	4.2%	1%	Pass	no	100%	0%	Pass	
4F	B2-0401-Kitchen Living Dining	Kitchen/Living/Dining	2.4%	2%	Pass	no	100%	0%	Pass	
4F	B2-0402-Bedroom1	Bedroom	4.2%	1%	Pass	no	100%	0%	Pass	
4F	B2-0402-Bedroom2	Bedroom	2.6%	1%	Pass	no	83%	17%	Pass	
4F	B2-0402-Kitchen	Kitchen	1.3%	2%	Fail	no	89%	11%	Pass	
4F	B2-0402-Living Dining	Living/Dining	1.9%	1.5%	Pass	no	93%	7%	Pass	
4F	B2-0403-Bedroom1	Bedroom	2.6%	1%	Pass	no	100%	0%	Pass	
4F	B2-0403-Bedroom2	Bedroom	2.8%	1%	Pass	no	100%	0%	Pass	
4F	B2-0403-Kitchen	Kitchen	2.1%	2%	Pass	no	95%	5%	Pass	
4F	B2-0403-Living Dining	Living/Dining	1.8%	1.5%	Pass	no	100%	0%	Pass	
4F	B2-0404-Bedroom1	Bedroom	2.9%	1%	Pass	no	97%	3%	Pass	
4F	B2-0404-Bedroom2	Bedroom	2.5%	1%	Pass	no	100%	0%	Pass	
4F	B2-0404-Kitchen	Kitchen	3.3%	2%	Pass	no	91%	9%	Pass	
4F	B2-0404-Living Dining	Living/Dining	2.2%	1.5%	Pass	no	100%	0%	Pass	
		14	14	Passing rooms	13		0	Passing rooms	14	

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail	
BLOCK 2	5F	B2-0501-Bedroom1	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
	5F	B2-0501-Kitchen Living Dining	Kitchen/Living/Dining	2.8%	2%	Pass	no	100%	0%	Pass	
	5F	B2-0502-Bedroom1	Bedroom	4.6%	1%	Pass	no	100%	0%	Pass	
	5F	B2-0502-Bedroom2	Bedroom	2.9%	1%	Pass	no	83%	17%	Pass	
	5F	B2-0502-Kitchen	Kitchen	2.0%	2%	Pass	no	100%	0%	Pass	
	5F	B2-0502-Living Dining	Living/Dining	2.0%	1.5%	Pass	no	95%	5%	Pass	
	5F	B2-0503-Bedroom1	Bedroom	2.8%	1%	Pass	no	100%	0%	Pass	
	5F	B2-0503-Bedroom2	Bedroom	2.8%	1%	Pass	no	100%	0%	Pass	
	5F	B2-0503-Kitchen	Kitchen	3.0%	2%	Pass	no	100%	0%	Pass	
	5F	B2-0503-Living Dining	Living/Dining	1.9%	1.5%	Pass	no	100%	0%	Pass	
	5F	B2-0504-Bedroom1	Bedroom	3.0%	1%	Pass	no	97%	3%	Pass	
	5F	B2-0504-Bedroom2	Bedroom	2.9%	1%	Pass	no	100%	0%	Pass	
	5F	B2-0504-Kitchen	Kitchen	4.0%	2%	Pass	no	100%	0%	Pass	
	5F	B2-0504-Living Dining	Living/Dining	2.4%	1.5%	Pass	no	100%	0%	Pass	
		14	14	Passing rooms	14		0	Passing rooms		14	
6F	B2-0602-Bedroom1	Bedroom	5.1%	1%	Pass	yes	100%	0%	Pass		
6F	B2-0602-Bedroom2	Bedroom	3.2%	1%	Pass	no	86%	14%	Pass		
6F	B2-0602-Kitchen	Kitchen	2.5%	2%	Pass	no	100%	0%	Pass		
6F	B2-0602-Living Dining	Living/Dining	4.1%	1.5%	Pass	no	100%	0%	Pass		
6F	B2-0603-Bedroom1	Bedroom	3.4%	1%	Pass	no	100%	0%	Pass		
6F	B2-0603-Bedroom2	Bedroom	3.2%	1%	Pass	no	100%	0%	Pass		
6F	B2-0603-Kitchen	Kitchen	3.9%	2%	Pass	no	100%	0%	Pass		
6F	B2-0603-Living Dining	Living/Dining	2.4%	1.5%	Pass	no	100%	0%	Pass		
6F	B2-0604-Bedroom1	Bedroom	3.3%	1%	Pass	no	100%	0%	Pass		
6F	B2-0604-Bedroom2	Bedroom	4.3%	1%	Pass	no	100%	0%	Pass		
6F	B2-0604-Kitchen	Kitchen	4.5%	2%	Pass	no	100%	0%	Pass		
6F	B2-0604-Living Dining	Living/Dining	3.2%	1.5%	Pass	no	100%	0%	Pass		
		12	12	Passing rooms	12		1	Passing rooms		12	
Total number of rooms			82	Number of passing rooms			71	1	70		85%
							87%	1%			

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail
BLOCK 3	1F	B3-0101-Bedroom1	Bedroom	1.0%	1%	Pass	no	91%	9%	Pass
	1F	B3-0101-Kitchen Living Dining	Kitchen/Dining/Living	1.7%	2%	Fail	no	72%	28%	Fail
	1F	B3-0102-Bedroom 1	Bedroom	0.8%	1%	Fail	no	93%	7%	Pass
	1F	B3-0102-Kitchen Living Dining	Kitchen/Dining/Living	1.9%	2%	Fail	no	71%	29%	Fail
	1F	B3-0103-Bedroom1	Bedroom	3.1%	1%	Pass	no	67%	33%	Fail
	1F	B3-0103-Bedroom2	Bedroom	2.3%	1%	Pass	no	100%	0%	Pass
	1F	B3-0103-Kitchen Living Dining	Kitchen/Dining/Living	5.2%	2%	Pass	yes	100%	0%	Pass
	1F	B3-0104-Bedroom1	Bedroom	1.7%	1%	Pass	no	100%	0%	Pass
	1F	B3-0104-Kitchen Living Dining	Kitchen/Dining/Living	3.3%	2%	Pass	no	100%	0%	Pass
	1F	B3-0105-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass
	1F	B3-0105-Bedroom2	Bedroom	2.9%	1%	Pass	no	52%	48%	Fail
	1F	B3-0105-Kitchen Living Dining	Kitchen/Dining/Living	4.5%	2%	Pass	no	100%	0%	Pass
	1F	B3-0106-Bedroom1	Bedroom	2.8%	1%	Pass	no	63%	37%	Fail
	1F	B3-0106-Kitchen Living Dining	Kitchen/Dining/Living	0.6%	2%	Fail	no	33%	67%	Fail
	1F	B3-0107-Bedroom1	Bedroom	0.4%	1%	Fail	no	42%	58%	Fail
	1F	B3-0107-Kitchen Living Dining	Kitchen/Dining/Living	1.7%	2%	Fail	no	48%	52%	Fail
		16	16	Passing rooms	10		1	Passing rooms		8
2F	B3-0201-Bedroom1	Bedroom	1.2%	1%	Pass	no	94%	6%	Pass	
2F	B3-0201-Bedroom2	Bedroom	1.7%	1%	Pass	no	93%	7%	Pass	
2F	B3-0201-Kitchen Living Dining	Kitchen/Dining/Living	2.4%	2%	Pass	no	74%	26%	Fail	
2F	B3-0202-Bedroom1	Bedroom	1.2%	1%	Pass	no	98%	2%	Pass	
2F	B3-0202-Kitchen Living Dining	Kitchen/Dining/Living	2.3%	2%	Pass	no	85%	15%	Pass	
2F	B3-0203-Bedroom1	Bedroom	3.6%	1%	Pass	no	100%	0%	Pass	
2F	B3-0203-Bedroom2	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
2F	B3-0203-Kitchen Living Dining	Kitchen/Dining/Living	5.7%	2%	Pass	yes	100%	0%	Pass	
2F	B3-0204-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
2F	B3-0204-Kitchen Living Dining	Kitchen/Dining/Living	3.5%	2%	Pass	no	100%	0%	Pass	
2F	B3-0205-Bedroom1	Bedroom	2.1%	1%	Pass	no	100%	0%	Pass	
2F	B3-0205-Bedroom2	Bedroom	3.7%	1%	Pass	no	79%	21%	Fail	
2F	B3-0205-Kitchen Living Dining	Kitchen/Dining/Living	5.2%	2%	Pass	yes	100%	0%	Pass	
2F	B3-0206-Bedroom1	Bedroom	3.8%	1%	Pass	no	97%	3%	Pass	
2F	B3-0206-Kitchen Living Dining	Kitchen/Dining/Living	0.9%	2%	Fail	no	46%	54%	Fail	
2F	B3-0207-Bedroom1	Bedroom	2.6%	1%	Pass	no	68%	32%	Fail	
2F	B3-0207-Bedroom2	Bedroom	1.9%	1%	Pass	no	51%	49%	Fail	
2F	B3-0207-Kitchen	Kitchen	1.8%	2%	Fail	no	72%	28%	Fail	
2F	B3-0207-Living Dining	Living/Dining	0.8%	1.5%	Fail	no	58%	42%	Fail	
		19	19	Passing rooms	16		2	Passing rooms		12
3F	B3-0301-Bedroom1	Bedroom	1.5%	1%	Pass	no	94%	6%	Pass	
3F	B3-0301-Bedroom2	Bedroom	2.3%	1%	Pass	no	100%	0%	Pass	
3F	B3-0301-Kitchen Living Dining	Kitchen/Dining/Living	2.9%	2%	Pass	no	93%	7%	Pass	
3F	B3-0302-Bedroom1	Bedroom	1.4%	1%	Pass	no	98%	2%	Pass	
3F	B3-0302-Kitchen Living Dining	Kitchen/Dining/Living	2.7%	2%	Pass	no	98%	2%	Pass	
3F	B3-0303-Bedroom1	Bedroom	4.9%	1%	Pass	no	100%	0%	Pass	
3F	B3-0303-Bedroom2	Bedroom	5.0%	1%	Pass	yes	100%	0%	Pass	
3F	B3-0303-Bedroom3	Bedroom	2.7%	1%	Pass	no	100%	0%	Pass	
3F	B3-0303-Kitchen Dining	Kitchen/Dining	3.4%	2%	Pass	no	100%	0%	Pass	
3F	B3-0303-Living	Living	7.7%	1.5%	Pass	yes	100%	0%	Pass	
3F	B3-0304-Bedroom1	Bedroom	1.9%	1%	Pass	no	100%	0%	Pass	
3F	B3-0304-Kitchen Living Dining	Kitchen/Dining/Living	3.6%	2%	Pass	no	100%	0%	Pass	
3F	B3-0305-Bedroom1	Bedroom	3.1%	1%	Pass	no	100%	0%	Pass	
3F	B3-0305-Bedroom2	Bedroom	5.1%	1%	Pass	yes	100%	0%	Pass	
3F	B3-0305-Bedroom3	Bedroom	4.2%	1%	Pass	no	100%	0%	Pass	
3F	B3-0305-Kitchen Dining	Kitchen/Dining	3.1%	2%	Pass	no	89%	11%	Pass	
3F	B3-0305-Living	Living	6.9%	1.5%	Pass	yes	100%	0%	Pass	
3F	B3-0306-Bedroom1	Bedroom	4.7%	1%	Pass	no	100%	0%	Pass	
3F	B3-0306-Kitchen Living Dining	Kitchen/Dining/Living	1.4%	2%	Fail	no	81%	19%	Pass	
3F	B3-0307-Bedroom1	Bedroom	3.3%	1%	Pass	no	100%	0%	Pass	
3F	B3-0307-Bedroom2	Bedroom	2.4%	1%	Pass	no	100%	0%	Pass	
3F	B3-0307-Kitchen	Kitchen	2.6%	2%	Pass	no	80%	20%	Pass	
3F	B3-0307-Living	Living/Dining	1.5%	1.5%	Pass	no	100%	0%	Pass	
		23	23	Passing rooms	22		4	Passing rooms		23

Detailed Daylight results - North Block

Plot 18A

Unit	Floor	Room name	Function	ADF	Recommended value	Pass/Fail (room)	ADF of at least 5%	Sky view	No-Sky Line	Pass/Fail	
BLOCK 3	4F	B3-0401-Bedroom1	Bedroom	1.7%	1%	Pass	no	97%	3%	Pass	
	4F	B3-0401-Bedroom2	Bedroom	2.7%	1%	Pass	no	100%	0%	Pass	
	4F	B3-0401-Kitchen Living Dining	Kitchen/Dining/Living	3.5%	2%	Pass	no	100%	0%	Pass	
	4F	B3-0402-Bedroom1	Bedroom	2.1%	1%	Pass	no	100%	0%	Pass	
	4F	B3-0402-Kitchen Living Dining	Kitchen/Dining/Living	3.0%	2%	Pass	no	100%	0%	Pass	
	4F	B3-0406-Bedroom1	Bedroom	5.5%	1%	Pass	yes	100%	0%	Pass	
	4F	B3-0406-Kitchen Living Dining	Kitchen/Dining/Living	2.0%	2%	Pass	no	98%	2%	Pass	
	4F	B3-0407-Bedroom1	Bedroom	4.0%	1%	Pass	no	100%	0%	Pass	
	4F	B3-0407-Bedroom2	Bedroom	2.8%	1%	Pass	no	100%	0%	Pass	
	4F	B3-0407-Kitchen	Kitchen	3.5%	2%	Pass	no	88%	12%	Pass	
	4F	B3-0407-Living Dining	Living/Dining	2.0%	1.5%	Pass	no	100%	0%	Pass	
			11	11	Passing rooms	11		1	Passing rooms		11
	5F	B3-0501-Bedroom1	Bedroom	2.7%	1%	Pass	no	100%	0%	Pass	
	5F	B3-0501-Bedroom2	Bedroom	3.8%	1%	Pass	no	100%	0%	Pass	
	5F	B3-0501-Kitchen Living Dining	Kitchen/Dining/Living	4.1%	2%	Pass	no	100%	0%	Pass	
	5F	B3-0502-Bedroom1	Bedroom	1.8%	1%	Pass	no	100%	0%	Pass	
	5F	B3-0502-Kitchen Living Dining	Kitchen/Dining/Living	3.0%	2%	Pass	no	100%	0%	Pass	
	5F	B3-0506-Bedroom1	Bedroom	6.2%	1%	Pass	yes	100%	0%	Pass	
	5F	B3-0506-Kitchen Living Dining	Kitchen/Dining/Living	3.3%	2%	Pass	no	98%	2%	Pass	
	5F	B3-0507-Bedroom1	Bedroom	4.5%	1%	Pass	no	100%	0%	Pass	
5F	B3-0507-Bedroom2	Bedroom	3.1%	1%	Pass	no	100%	0%	Pass		
5F	B3-0507-Kitchen	Kitchen	4.2%	2%	Pass	no	92%	8%	Pass		
5F	B3-0507-Living Dining	Living/Dining	4.2%	1.5%	Pass	no	100%	0%	Pass		
		11	11	Passing rooms	11		1	Passing rooms		11	
Total number of rooms			80	Number of passing rooms			70	9	65		81%
							88%	11%			

Appendix D

Detailed Sunlight results - Proposed building

Detailed Sunlight results - North Block - Block1

Floor	Room name	Window ID	Single/Double/Triple Aspect	Window orientation	Annual APSH	Winter APSH	Condition		
BLOCK 1									
1F	B1-0104-Kitchen Living Dining	1	Double	SE	54.0%	57%	63.4%		
1F		2		SE	56.7%		68.9%		
1F		3		NE	3.7%		2.0%		
1F	B1-0105-Kitchen Living Dining	4	Single	SE	49.1%	49%	53.7%	54%	Pass
					Passing windows		2		
2F	B1-0204-Kitchen Living Dining	5	Double	SE	59%	61%	74.3%		
2F		6		SE	61%		76.5%		
2F		7		NE	4%		2.0%		
2F	B1-0205-Kitchen Living Dining	8	Single	SE	55%	55%	67.3%	67%	Pass
					Passing windows		2		
3F	B1-0304-Kitchen Living Dining	9	Double	SE	61.7%	73%	77.2%		
3F		10		SE	72.6%		78.9%		
3F		11		NE	4.4%		2.0%		
3F	B1-0305-Kitchen Living Dining	12	Single	SE	58.7%	59%	71.2%	71%	Pass
					Passing windows		2		
4F	B1-0404-Kitchen Living Dining	13	Double	SE	63.1%	65%	77.3%		
4F		14		SE	64.6%		78.9%		
4F		15		NE	5.7%		2.0%		
4F	B1-0405-Kitchen Living Dining	16	Single	SE	59.5%	59%	71.9%	72%	Pass
					Passing windows		2		
5F	B1-0504-Kitchen Living Dining	17	Double	SE	64.6%	66%	79.0%		
5F		18		SE	65.8%		80.7%		
5F		19		NE	6.2%		2.8%		
5F	B1-0505-Kitchen Living Dining	20	Single	SE	61.1%	61%	73.3%	73%	Pass
					Passing windows		2		
6F	B1-0604-Kitchen Living Dining	21	Double	SE	68.1%	68%	82.4%		
6F		22		SE	68.4%		83.8%		
6F		23		NE	8.2%		4.1%		
6F	B1-0605-Kitchen Living Dining	24	Single	SE	64.6%	65%	76.6%	77%	Pass
					Passing windows		2		
7F	B1-0704-Kitchen Living Dining	25	Double	SE	69.4%	70%	83.0%		
7F		26		SE	69.7%		84.8%		
7F		27		NE	9.2%		4.4%		
7F	B1-0705-Kitchen Living Dining	28	Single	SE	65.5%	66%	76.6%	77%	Pass
					Passing windows		2		
8F	B1-0804-Kitchen Living Dining	29	Double	SE	70.3%	70%	83.6%		
8F		30		SE	70.4%		84.5%		
8F		31		NE	10.1%		4.4%		
8F	B1-0805-Kitchen Living Dining	32	Single	SE	66.1%	66%	76.6%	77%	Pass
					Passing windows		2		
9F	B1-0904-Kitchen Living Dining	33	Double	SE	70.3%	70%	83.6%		
9F		34		SE	70.4%		85.5%		
9F		35		NE	10.1%		4.4%		
9F	B1-0905-Kitchen Living Dining	36	Single	SE	66.1%	66%	76.6%	77%	Pass
					Passing windows		2		
10F	B1-1004-Kitchen Living Dining	37	Double	SE	70.3%	70%	83.6%		
10F		38		SE	70.4%		85.5%		
10F		39		NE	10.1%		4.4%		
10F	B1-1005-Kitchen Living Dining	40	Single	SE	66.1%	66%	76.6%	77%	Pass
					Passing windows		2		
11F	B1-1104-Kitchen Living Dining	41	Double	SE	70.3%	70%	83.6%		
11F		42		SE	70.4%		85.5%		
11F		43		NE	10.1%		4.4%		
11F	B1-1105-Kitchen Living Dining	44	Single	SE	66.1%	66%	76.7%	77%	Pass
					Passing windows		2		

Detailed Sunlight results - North Block - Block 1

Floor	Room name	Window ID	Single/Double/Triple Aspect	Window orientation	Annual APSH		Winter APSH		Condition
12F	B1-1204-Kitchen Living Dining	45	Double	SE	70.3%	70%	83.6%	85%	Pass
12F		46		SE	70.1%		85.5%		
12F		47		NE	10.1%		4.4%		
12F	B1-1205-Kitchen Living Dining	48	Single	SE	66.3%	66%	77.1%	77%	Pass
					Passing windows				2
13F	B1-1304-Kitchen Living Dining	49	Double	SE	70.1%	69%	83.6%	85%	Pass
13F		50		SE	69.0%		85.5%		
13F		51		NE	10.1%		4.4%		
13F	B1-1305-Kitchen Living Dining	52	Single	SE	66.3%	66%	77.1%	77%	Pass
					Passing windows				2
14F	B1-1404-Kitchen Living Dining	53	Double	SE	66.4%	68%	83.6%	84%	Pass
14F		54		SE	68.2%		83.6%		
14F		55		NE	11.4%		4.3%		
14F	B1-1405-Kitchen Living Dining	56	Single	SE	65.2%	65%	77.1%	77%	Pass
					Passing windows				2

Detailed Sunlight results - North Block - Block 2

Floor	Room name	Window ID	Single/Double/Triple Aspect	Window orientation	Annual APSH		Winter APSH		Condition
BLOCK 2									
1F	B2-0103-Living Dining	57	Double	SE	25.7%	26%	32.5%	33%	Pass
1F		58		NW	0.2%		0.0%		
1F	B2-0104-Living Dining	59	Double	SE	24.9%	28%	26.7%	27%	Pass
1F		60		NW	3.0%		0.0%		
					Passing windows				2
2F	B2-0203-Living Dining	61	Double	SE	29.0%	29%	37.8%	38%	Pass
2F		62		NW	0.2%		0.0%		
2F	B2-0204-Living Dining	63	Double	SE	28.4%	34%	34.9%	35%	Pass
2F		64		NW	5.3%		0.0%		
					Passing windows				2
3F	B2-0303-Living Dining	65	Double	SE	32.2%	33%	45.6%	46%	Pass
3F		66		NW	0.5%		0.0%		
3F	B2-0304-Living Dining	67	Double	SE	31.9%	41%	43.1%	43%	Pass
3F		68		NW	9.3%		0.0%		
					Passing windows				2
4F	B2-0403-Living Dining	69	Double	SE	33.2%	35%	46.9%	49%	Pass
4F		70		NW	2.0%		1.6%		
4F	B2-0404-Living Dining	71	Double	SE	35.0%	48%	48.9%	51%	Pass
4F		72		NW	13.3%		1.8%		
					Passing windows				2
5F	B2-0503-Living Dining	73	Double	SE	35.7%	43%	47.9%	52%	Pass
5F		74		NW	6.8%		4.3%		
5F	B2-0504-Living Dining	75	Double	SE	36.9%	57%	50.8%	60%	Pass
5F		76		NW	20.4%		8.9%		
					Passing windows				2
6F	B2-0603-Living Dining	77	Double	SE	39.5%	60%	49.3%	60%	Pass
6F		78		SE	20.6%		10.9%		
6F	B2-0604-Living Dining	79	Double	SE	42.3%	66%	57.3%	68%	Pass
6F		80		SE	23.6%		10.9%		
					Passing windows				2

Detailed Sunlight results - North Block - Block 3

Floor	Room name	Window ID	Single/Double/Triple Aspect	Window orientation	Annual APSH	Winter APSH	Condition		
BLOCK 3									
1F	B3-0101-Kitchen Living Dining	81	Triple	SE	39.6%	40%	27.9%	28%	Pass
		82		SW	6.2%		12.8%		
		83		NW	0.0%		0.0%		
1F	B3-0102-Kitchen Living Dining	84	Double	SE	40.2%	40%	34.6%	35%	Pass
		85		SW	6.9%		13.0%		
1F	B3-0103-Kitchen Living Dining	86	Double	SE	48.4%	59%	53.3%	68%	Pass
		87		SE	49.3%		51.0%		
		88		SW	30.6%		48.1%		
		89		SE	28.6%		50.9%		
		90		SW	59.0%		67.6%		
					Passing windows		3		
2F	B3-0201-Kitchen Living Dining	91	Triple	SE	43.4%	43%	36.7%	37%	Pass
		92		SW	6.6%		13.7%		
		93		NW	0.3%		0.0%		
2F	B3-0202-Kitchen Living Dining	94	Double	SE	47.4%	47%	46.0%	46%	Pass
		95		SW	7.2%		13.8%		
2F	B3-0203-Kitchen Living Dining	96	Double	SE	55.7%	63%	60.9%	73%	Pass
		97		SE	56.8%		62.1%		
		98		SW	33.3%		54.4%		
		99		SE	30.0%		54.4%		
		100		SW	63.1%		72.5%		
					Passing windows		3		
3F	B3-0301-Kitchen Living Dining	101	Triple	SE	47.8%	48%	47.8%	48%	Pass
		102		SW	6.6%		13.7%		
		103		NW	3.9%		0.0%		
3F	B3-0302-Kitchen Living Dining	104	Double	SE	52.8%	53%	54.6%	55%	Pass
		105		SW	7.2%		13.8%		
3F	B3-0303-Living	106	Double	SE	63.7%	64%	72.6%	72.6%	Pass
		107		SW	36.6%		59.0%		
					Passing windows		3		
4F	B3-0401-Kitchen Living Dining	108	Triple	SE	54.7%	55%	64.9%	65%	Pass
		109		SW	6.6%		13.7%		
		110		NW	10.3%		0.0%		
4F	B3-0402-Kitchen Living Dining	111	Double	SE	58.9%	59%	65.8%	65.8%	Pass
		112		SW	12.6%		25.6%		
					Passing windows		2		
5F	B3-0501-Kitchen Living Dining	113	Triple	SE	58.2%	58%	74.2%	74%	Pass
		114		SW	12.8%		13.6%		
		115		NW	18.6%		5.6%		
5F	B3-0502-Kitchen Living Dining	116	Double	SE	62.8%	63%	74.4%	74.4%	Pass
5F		117		NW	12.2%		27.7%		
					Passing windows		2		



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