



London Borough of Hillingdon
3N/02 Civic Centre
High Street
Uxbridge
Middlesex
UB8 1UW

11th April 2023

Dear Sirs

RE: FORMER CANTEEN BUILDING AND BLOCK H, FORMER NESTLE FACTORY – INTERNAL DAYLIGHT AMENITY ADDENDUM

BDW Trading Limited (the 'Applicant') have appointed Point 2 to consider the implications of the full application in respect of the former Canteen Building and Block of the former Nestle Factory development in respect of the quality of light within the development.

Point 2 have reported on the internal quality of light in respect of the various extant planning consents. This was most recently undertaken for a 'drop-in' application (ref. 1331/APP/2019/2314) approved on the 28 June 2021 which included Block H. This approval was for:

"Development of 4no. new buildings comprising residential units (in addition to those approved under planning permission ref. 1331/APP/2017/1883) a basement extension to Block B, flexible commercial uses (Class E) and associated landscaping, access, car parking and other engineering works." (the 'Additional Unit Scheme')."

Following the above consent, a Section 73 application was permitted on 10 November 2021 for:

"Section 73 application seeking a variation to Condition 61 (Approved Drawings) of planning permission ref: 1331/APP/2019/1666 dated 11-09-20 (Section 73 application to vary Condition 9 (Residential Condition - Approved Plans) of planning permission ref: 1331/APP/2017/1883 dated 28/06/2018 (Part demolition of existing factory buildings and associated structures, and redevelopment to provide residential dwellings (Use Class C3), office, retail, community and leisure uses (Use Class A1/A3/A4/B1/B8/D1/D2), commercial floorspace (Use Classes B1c/B2/B8) and Data Centre (Sui Generis), amenity and playspace, landscaping, allotments, access, service yards, associated car parking and other engineering works) (as amended by application ref: 1331/APP/2020/50 dated 06/02/20)). The amendments to the approved plan proposed: Alteration to the elevations of Unit 4 involving 4 no. new loading docks (totalling 12 no. with 8 loading docks permitted by planning permission ref: 1331/APP/2017/1883 (as amended)), 1 no. roller door and 2 no. pedestrian doors, and the alteration to the dock pit, and minor alteration to internal layout to office." (the 'Operational Consent').

These permissions will herein collectively be referred to as the 'Extant Permissions'.

The Applicant is now seeking to approval for the following works:

“Partial demolition and redevelopment of the former canteen building to provide a new healthcare facility (Class E(e)), nursery (Class E(f)) and residential buildings (Block H) (Class C3) with a commercial unit at ground floor (Class E), including associated landscaping, access, car parking and other engineering works.” (The ‘Proposed Development’)

The drawings at Appendix 1 of this report illustrate the Proposed Development in plan and 3D. The Proposed Development has been shown in turquoise on these drawings and the Extant Permissions are shown in yellow. A revised internal daylight and sunlight assessment has been undertaken to determine whether those alterations will have any material bearing on the daylight availability to the proposed new residential accommodation within the development.

Method of Assessment

The technical assessments have been undertaken in accordance with the recognised assessment methodologies set out in both the Building Research Establishment document *‘Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice, 2022* (‘the BRE Guidelines’) and also British Standard EN 17037:2018 (‘the British Standard’).

The internal daylight assessment criteria is based on the new CBDM methodology as set out in British Standard ‘Daylight in Buildings’ (BS EN17037), and more recently the BRE Guidelines, published in June 2022. This contains advice and guidance on interior daylighting for all buildings across Europe but also has a UK National Annex which provides suggested targets for dwellings in the UK.

This new guidance supersedes the old British Standard BS 8206 Part 2 and BRE Guidelines (2011) which was based on Average Daylight Factor.

The CBDM methodology is based on target illuminances from daylight. This is the Daylight Illuminance (DI) to be achieved over half the area of the room (measured on a reference plane at tabletop level) for at least half of the daylight hours in a typical year. The calculations are based on weather data files which cover different regions of the UK. The calculations are done for each hour of the day for every day of the year. There are 8760 hours in the year, of which 4380 are daylight hours, and therefore the targets should be achieved for 2190 hours in the year.

The methodology uses a more accurate sky model which simulates the movement of the sun throughout the day and accounts for the weather conditions at the time. As a result, CBDM accounts for the presence of sunlight and therefore the orientation of the rooms/windows is accounted for. A south facing room is likely to have access to higher levels of natural light than a north facing room and as a result, in order to comply a north facing room would typically need larger windows.

The BRE Guidelines gives illuminance recommendations of 100 Lux in bedrooms, 150 Lux in living rooms and 200 Lux in kitchens. These are median illuminances to be achieved over 50% of the assessment grid for at least half of the daylight hours.

Where a room has a shared use, the highest target should apply. However, it also says that Local Authorities could use discretion here and that a living room target of 150 Lux could be used for combined living/kitchen/dining room (LKD) if the kitchens are not treated as habitable spaces, as it may avoid small separate kitchens in the design.



Throughout the entire design process, Point 2 have worked closely with the project architects to ensure that the internal daylight potential of the proposed dwellings is maximised, wherever possible. Despite this, there will invariably be areas where daylight will be more limited within large regenerative schemes of this nature. LBH previously recognised this and adopted a flexible approach in considering the Extant Permissions' daylight levels as acceptable, despite there being some rooms that were below the typical minimum recommendations.

In fact, a flexible and progressive approach to the guidance was agreed in a meeting with LBH held on the 17th November 2017, where it was advised that an ADF of 0.75% would be considered acceptable in respect of the bedrooms, with an ADF of 1.5% accepted in respect of the living kitchen dining rooms (LKDs). Adopting the same principle in the case of the new CBDM assessment criteria, we have sought to adopt a 150lux target to main LKDs.

Summary of Results

The latest tabulated internal daylight results are attached at Appendix 2 of this report. We have also included annotated plans showing the Medium Illuminance (Lux) Levels for each room.

Following discussions with LBH, it has been confirmed that the nursery element of the Canteen Building does not have any specific daylight and sunlight requirements so has not been considered within the analysis.

We have analysed the daylight amenity within all of the residential habitable rooms within the Proposed Development that have access to daylight. This totals 82 habitable rooms comprised of 41 bedrooms and 41 living/kitchen/dining rooms (LKDs). It should be noted, that we only assessed alternate floors for the Extant Permission given the scale of the full redevelopment.

The results of our internal daylight analysis confirm that 76/82 habitable rooms assessed (92.7%) across the Proposed Development will achieve the minimum recommended Lux targets for their relevant room uses. The Proposed Development therefore performs very well and comparably to the other buildings within the masterplan.

To enable a direct comparison between the current proposals and the Extant Permission, we have also run the CBDM results for the Extant Permission, the results of which are enclosed with Appendix 3. The analysis confirms that 62 of the 70 habitable rooms tested in the previously consented Block H (88.6%) would have achieved the recommended Lux targets based on their room uses.

It is therefore demonstrably the case that the current proposals for the Canteen Building (Block H) perform more favourably in terms of natural light amenity than the Extant Permission.

Conclusion

Overall, it is considered that the design and layout of the Proposed Development has been developed to maximise the daylight potential to the proposed new dwellings. In our opinion there continues to be an excellent rate of compliance that is comparable to the other blocks within the masterplan and within other large regeneration schemes within London.



The technical results have confirmed that the proposed alterations to the Proposed Development have resulted in an overall improved level of natural light amenity to the proposed dwellings within Block H, when assessed against the new Climate Based Daylight assessment criteria.

It is our view that the proposed habitable rooms will continue to retain a very good level of compliance with the BRE guidelines and demonstrate that the new dwellings have been designed to harness natural daylight availability wherever possible and that the position should continue to be considered acceptable.

Yours Sincerely

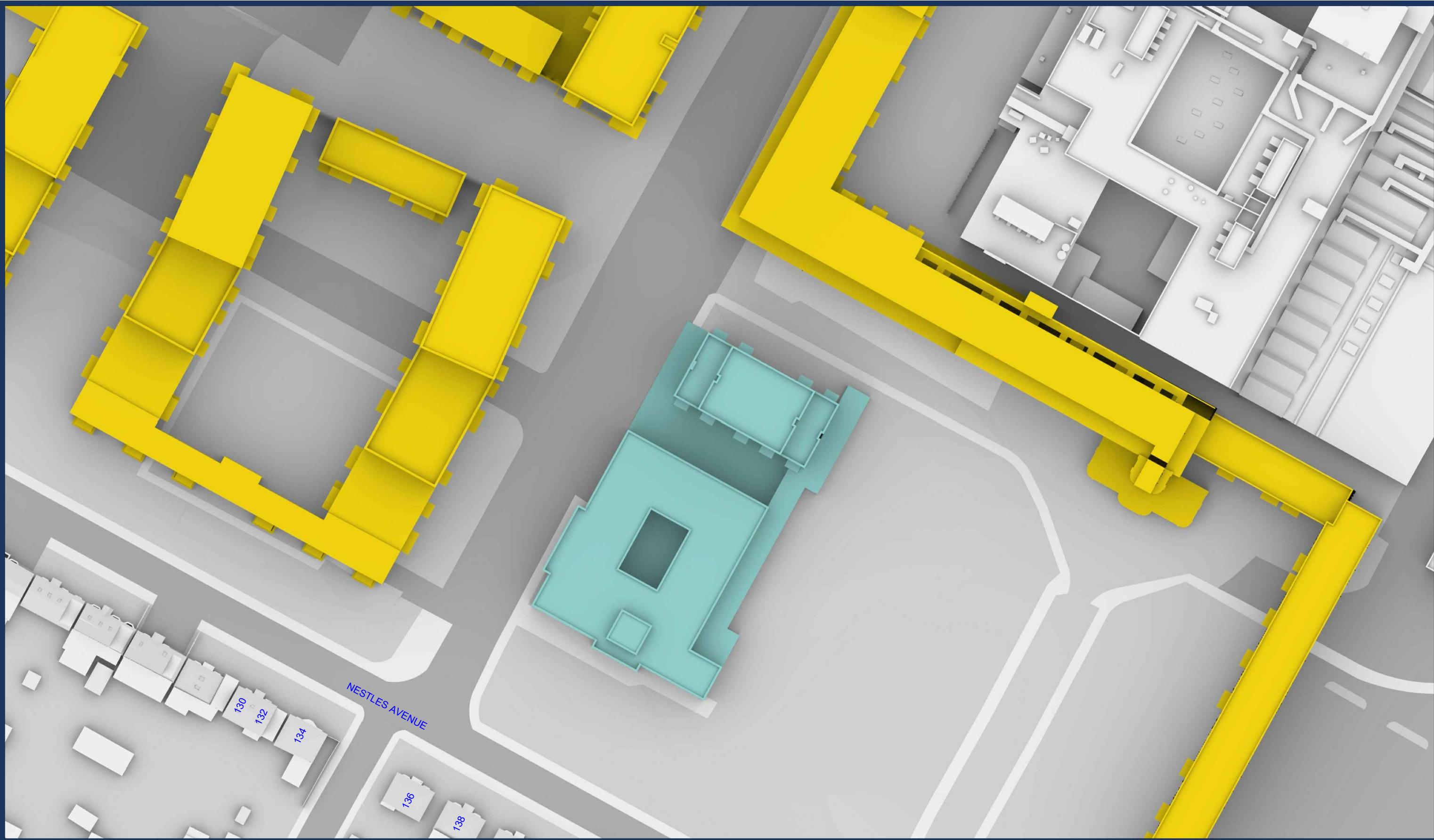


Matt Harris
Director
For and on behalf of Point 2



APPENDIX 1





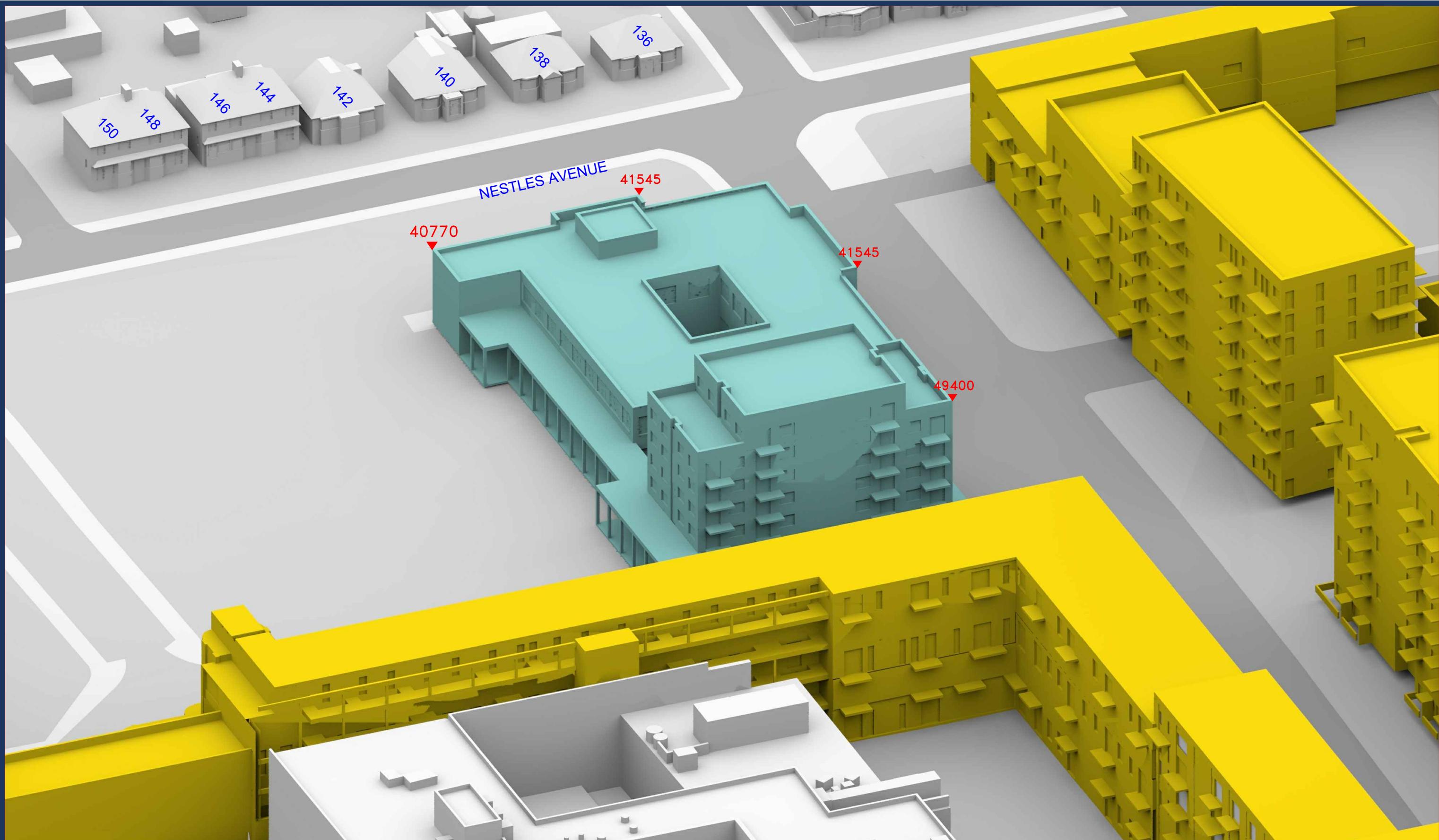
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| | |

| | |
|------|--------------------|
| Key: | Existing Buildings |
| | Proposed Scheme |
| | |
| | |

| | |
|-----------|-----------------------|
| Project: | Nestle Site, Hayes |
| Date: | |
| Drawn By: | BA/NB/EVJ |
| Scale: | NS |
| Date: | APRIL 22 |
| Dwg No: | P774/148 |
| Rel: | 22 |

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| Scheme Confirmed: | Date: | Drawn By: BA/NB/EVJ | Scale: NS |
| | | Date: APRIL 22 | Dwg No: P774/150 |
| | | | Rel: 22 |

APPENDIX 2





BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR050422

BRE CBDM ANALYSIS

| Room Label | Room Use | Room Use Target Illuminance Lux | Median Illuminance Lux | Fraction of Working Plane % Area |
|------------|----------|--|------------------------------|--|
|------------|----------|--|------------------------------|--|

Block H

| | | | | |
|----------|---------|-----|--------|------|
| R1/1651 | LKD | 150 | 465.4 | 98.1 |
| R2/1651 | BEDROOM | 100 | 199.1 | 77.8 |
| R3/1651 | LKD | 150 | 71.2 | 22.8 |
| R4/1651 | BEDROOM | 100 | 196.7 | 77.8 |
| R5/1651 | BEDROOM | 100 | 192.8 | 74.5 |
| R6/1651 | LKD | 150 | 73.3 | 23.4 |
| R7/1651 | BEDROOM | 100 | 193.3 | 78.9 |
| R8/1651 | LKD | 150 | 737.9 | 100 |
| R9/1651 | LKD | 150 | 1151.7 | 100 |
| R10/1651 | BEDROOM | 100 | 473.7 | 100 |
| R11/1651 | LKD | 150 | 181.3 | 55.8 |
| R12/1651 | BEDROOM | 100 | 420.8 | 100 |
| R13/1651 | LKD | 150 | 158 | 52.2 |
| R14/1651 | BEDROOM | 100 | 414.5 | 100 |
| R15/1651 | BEDROOM | 100 | 413.2 | 100 |
| R16/1651 | LKD | 150 | 154 | 50.8 |
| R17/1651 | BEDROOM | 100 | 398.7 | 100 |
| R18/1651 | LKD | 150 | 586.8 | 100 |
| R1/1652 | LKD | 150 | 535 | 98.6 |
| R2/1652 | BEDROOM | 100 | 260.6 | 97.1 |
| R3/1652 | LKD | 150 | 86.2 | 32.7 |
| R4/1652 | BEDROOM | 100 | 258.2 | 97.5 |
| R5/1652 | BEDROOM | 100 | 262.9 | 95.4 |
| R6/1652 | LKD | 150 | 90.3 | 33.9 |
| R7/1652 | BEDROOM | 100 | 259.3 | 95.9 |
| R8/1652 | LKD | 150 | 822.6 | 100 |
| R9/1652 | LKD | 150 | 1339.6 | 100 |
| R10/1652 | BEDROOM | 100 | 601 | 100 |



BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR050422

BRE CBDM ANALYSIS

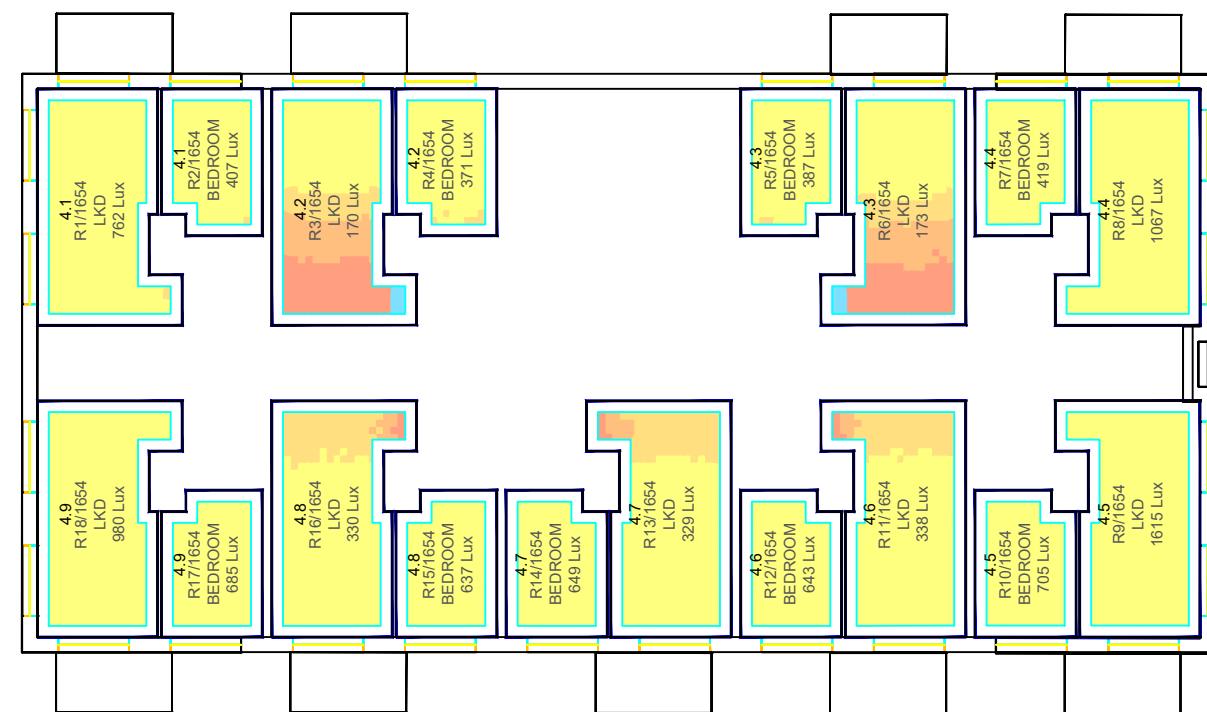
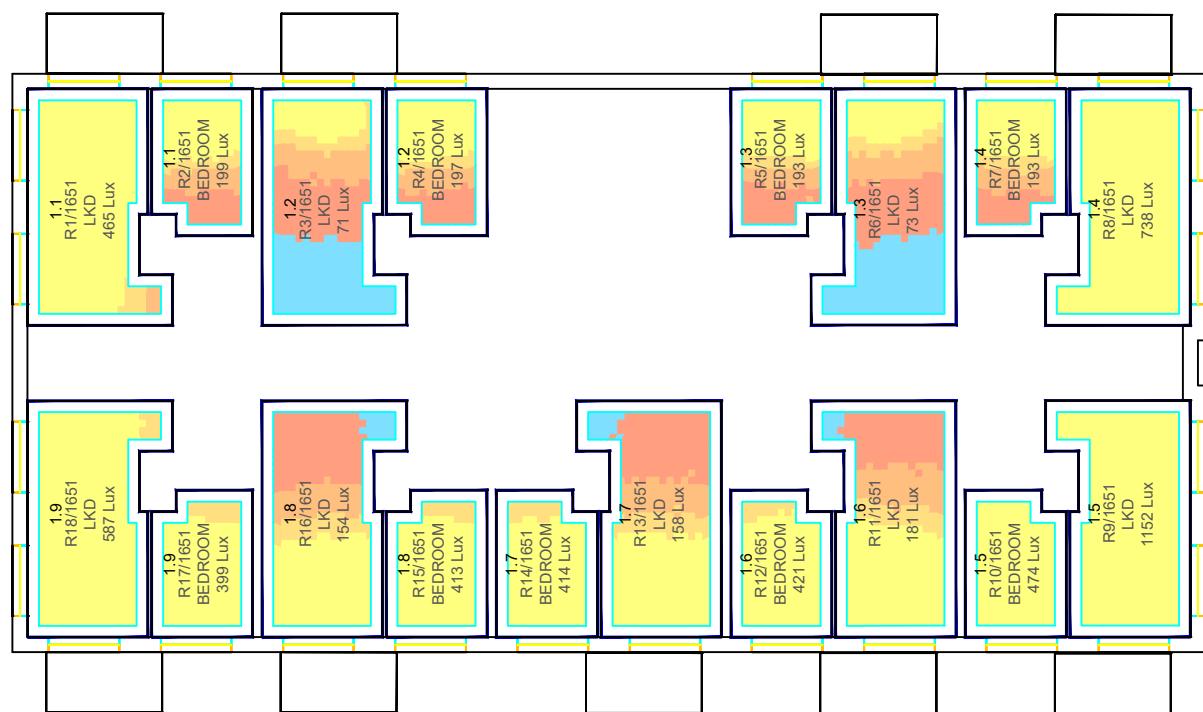
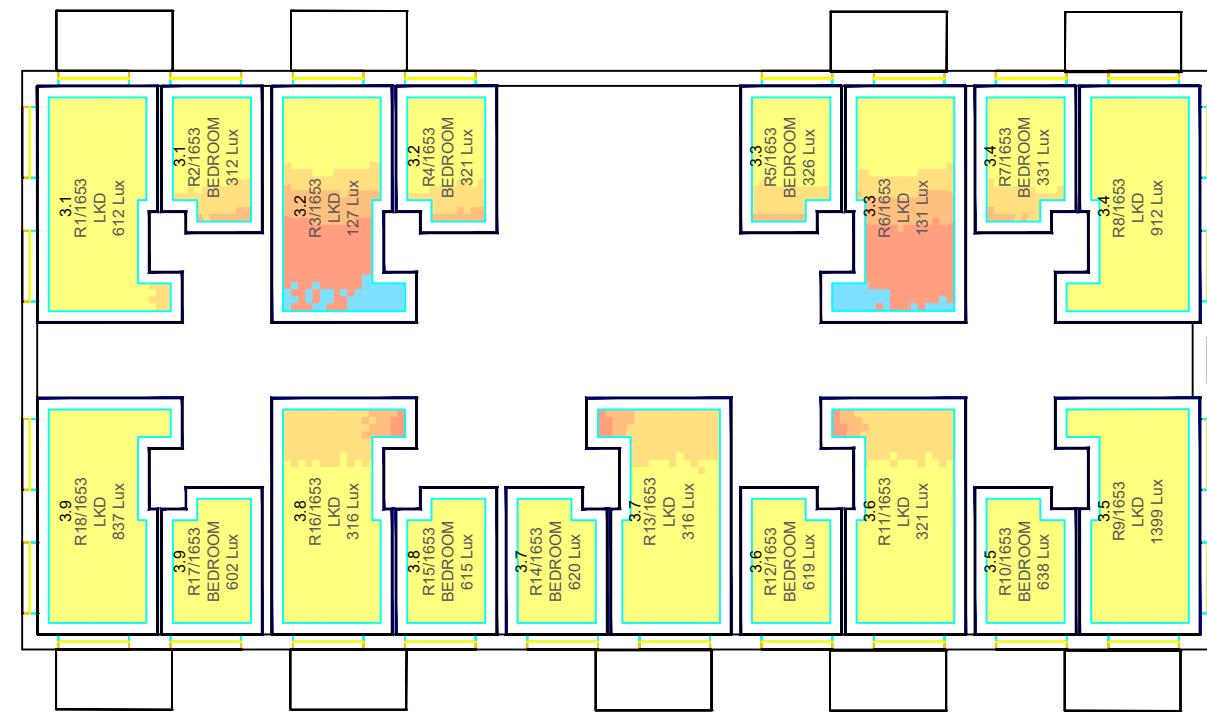
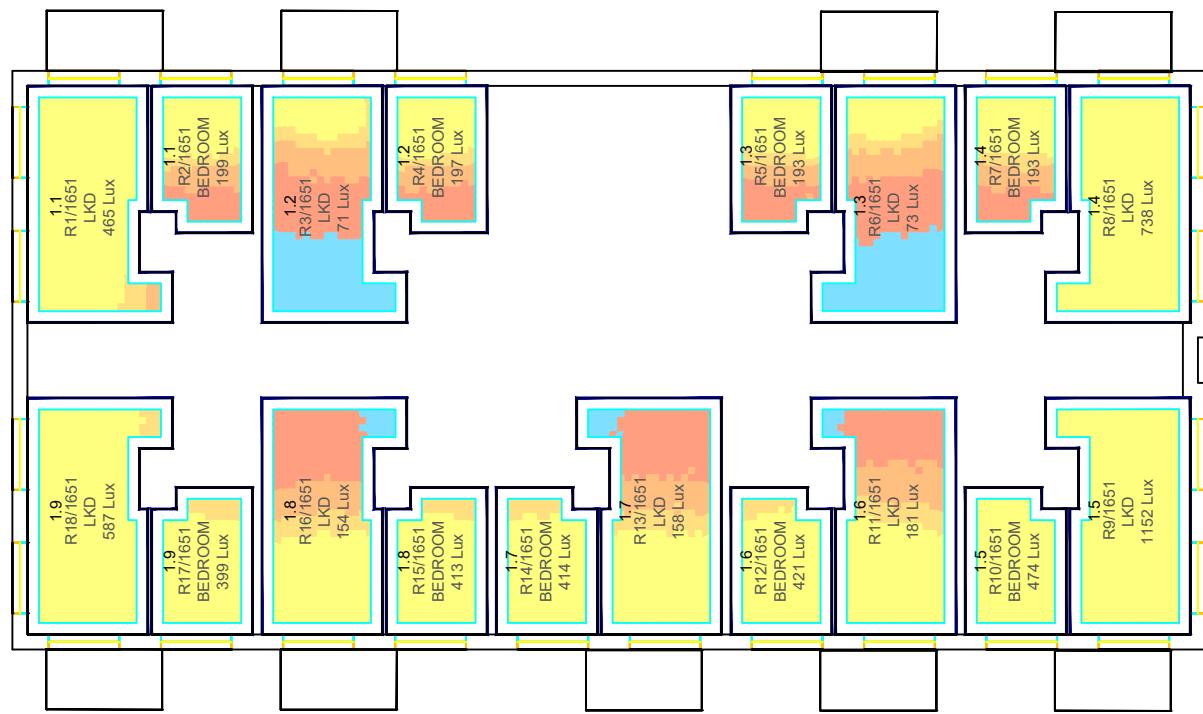
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|----------|---------|-----|--------|------|
| R11/1652 | LKD | 150 | 289.8 | 89.5 |
| R12/1652 | BEDROOM | 100 | 583.2 | 100 |
| R13/1652 | LKD | 150 | 280.9 | 84 |
| R14/1652 | BEDROOM | 100 | 594.3 | 100 |
| R15/1652 | BEDROOM | 100 | 587.5 | 100 |
| R16/1652 | LKD | 150 | 272 | 80.9 |
| R17/1652 | BEDROOM | 100 | 560.5 | 100 |
| R18/1652 | LKD | 150 | 753.8 | 100 |
| R1/1653 | LKD | 150 | 611.7 | 100 |
| R2/1653 | BEDROOM | 100 | 312.2 | 100 |
| R3/1653 | LKD | 150 | 127.2 | 43.5 |
| R4/1653 | BEDROOM | 100 | 320.7 | 100 |
| R5/1653 | BEDROOM | 100 | 326.1 | 100 |
| R6/1653 | LKD | 150 | 130.9 | 45.6 |
| R7/1653 | BEDROOM | 100 | 331.2 | 100 |
| R8/1653 | LKD | 150 | 912.1 | 100 |
| R9/1653 | LKD | 150 | 1398.8 | 100 |
| R10/1653 | BEDROOM | 100 | 637.7 | 100 |
| R11/1653 | LKD | 150 | 321.4 | 96.2 |
| R12/1653 | BEDROOM | 100 | 619.5 | 100 |
| R13/1653 | LKD | 150 | 316.4 | 95.7 |
| R14/1653 | BEDROOM | 100 | 620 | 100 |
| R15/1653 | BEDROOM | 100 | 615.5 | 100 |
| R16/1653 | LKD | 150 | 315.7 | 95 |
| R17/1653 | BEDROOM | 100 | 602.2 | 100 |
| R18/1653 | LKD | 150 | 837.2 | 100 |
| R1/1654 | LKD | 150 | 762.4 | 100 |
| R2/1654 | BEDROOM | 100 | 407.1 | 100 |
| R3/1654 | LKD | 150 | 169.9 | 54.9 |
| R4/1654 | BEDROOM | 100 | 370.8 | 100 |
| R5/1654 | BEDROOM | 100 | 387.1 | 100 |
| R6/1654 | LKD | 150 | 173.4 | 56.9 |
| R7/1654 | BEDROOM | 100 | 418.5 | 100 |
| R8/1654 | LKD | 150 | 1066.6 | 100 |



BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR050422

BRE CBDM ANALYSIS

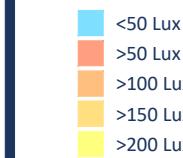
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|----------|---------|-----|--------|------|
| R9/1654 | LKD | 150 | 1614.8 | 100 |
| R10/1654 | BEDROOM | 100 | 705.4 | 100 |
| R11/1654 | LKD | 150 | 337.7 | 96.9 |
| R12/1654 | BEDROOM | 100 | 642.9 | 100 |
| R13/1654 | LKD | 150 | 328.6 | 95.8 |
| R14/1654 | BEDROOM | 100 | 649.5 | 100 |
| R15/1654 | BEDROOM | 100 | 637.2 | 100 |
| R16/1654 | LKD | 150 | 330.4 | 96.5 |
| R17/1654 | BEDROOM | 100 | 685.5 | 100 |
| R18/1654 | LKD | 150 | 980.4 | 100 |
| R1/1655 | LKD | 150 | 803.6 | 100 |
| R2/1655 | BEDROOM | 100 | 458 | 100 |
| R3/1655 | BEDROOM | 100 | 470.2 | 100 |
| R4/1655 | LKD | 150 | 994.2 | 100 |
| R5/1655 | LKD | 150 | 1436.8 | 100 |
| R6/1655 | BEDROOM | 100 | 707.8 | 100 |
| R7/1655 | LKD | 150 | 398.8 | 97.4 |
| R8/1655 | BEDROOM | 100 | 713 | 100 |
| R9/1655 | BEDROOM | 100 | 708.9 | 100 |
| R10/1655 | LKD | 150 | 975.7 | 100 |



Sources:
Point Cloud Data
Site Photos

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Key: Daylight Illuminance
(achieved for 50% of daylight hours)



Median Illuminance (Lux) Levels
shown for each room.

Recommended Targets:
Bedroom 100 Lux
Living Room 150 Lux
Kitchen 200 Lux

Project: Nestle Site,
Hayes

Title: Plan View
Internal Room Layout and Daylight Illuminance Study
Block H

Scheme Confirmed:

Date:

Drawn By:
BA/NB/EVJ

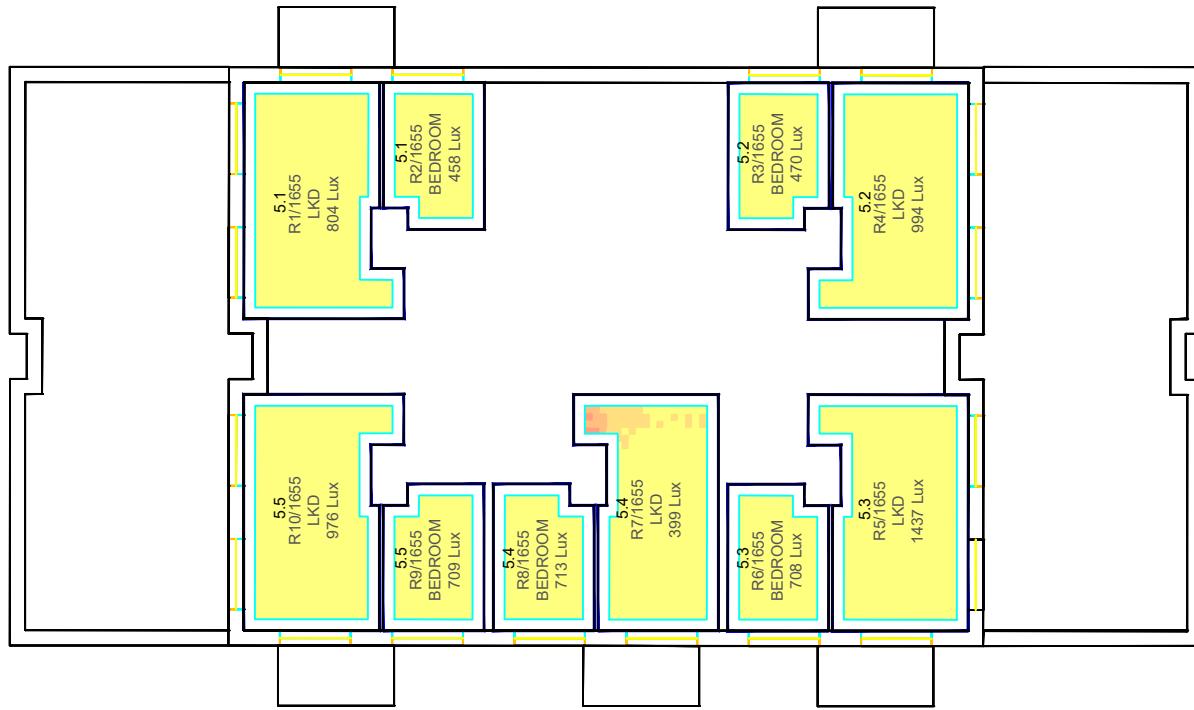
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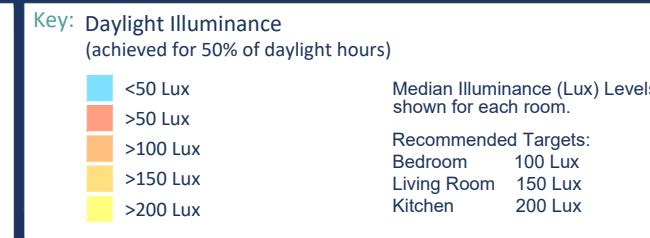
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A152,153 CAD DRAWINGS.



Project: Nestle Site,
Hayes

Title: Plan View
Internal Room Layout and Daylight Illuminance Study
Block H

Scheme Confirmed:

Date:

Drawn By:
BA/NB/EVJ

Scale:
1:200

Date:
SEPT 22

Dwg No:
P774/CBDM 193

Rel:
24

POINT

APPENDIX 3





BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR231020

BRE CBDM ANALYSIS

| Room Label | Room Use | Room Use Target Illuminance Lux | Median Illuminance Lux | Fraction of Working Plane % Area |
|------------|----------|---------------------------------|------------------------|----------------------------------|
|------------|----------|---------------------------------|------------------------|----------------------------------|

Block H

| | | | | |
|----------|---------|-----|--------|------|
| R13/1651 | BEDROOM | 100 | 113.1 | 55.1 |
| R14/1651 | LKD | 200 | 306.9 | 73 |
| R11/1651 | BEDROOM | 100 | 96.8 | 46.8 |
| R12/1651 | LKD | 200 | 77.4 | 12.8 |
| R9/1651 | LKD | 200 | 758.3 | 100 |
| R10/1651 | BEDROOM | 100 | 112.8 | 54 |
| R7/1651 | BEDROOM | 100 | 248.3 | 100 |
| R8/1651 | LKD | 200 | 1314 | 100 |
| R5/1651 | LKD | 200 | 137.3 | 36 |
| R6/1651 | BEDROOM | 100 | 205.4 | 95.6 |
| R3/1651 | BEDROOM | 100 | 83.5 | 41.8 |
| R4/1651 | LKD | 200 | 63.9 | 13.1 |
| R1/1651 | LKD | 200 | 342.4 | 77.4 |
| R2/1651 | BEDROOM | 100 | 89.1 | 46.8 |
| R13/1652 | BEDROOM | 100 | 144.3 | 67.7 |
| R14/1652 | LKD | 200 | 521.8 | 94.1 |
| R11/1652 | BEDROOM | 100 | 120.5 | 65.4 |
| R12/1652 | LKD | 200 | 95.1 | 23.2 |
| R9/1652 | LKD | 200 | 839.4 | 100 |
| R10/1652 | BEDROOM | 100 | 146.1 | 67.2 |
| R7/1652 | BEDROOM | 100 | 319.1 | 100 |
| R8/1652 | LKD | 200 | 1446.3 | 100 |
| R5/1652 | LKD | 200 | 286.1 | 72.4 |
| R6/1652 | BEDROOM | 100 | 266.5 | 100 |
| R3/1652 | BEDROOM | 100 | 201.6 | 84.6 |
| R4/1652 | LKD | 200 | 216.2 | 53.7 |
| R1/1652 | LKD | 200 | 747.8 | 100 |
| R2/1652 | BEDROOM | 100 | 247.8 | 97.3 |



BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR231020

BRE CBDM ANALYSIS

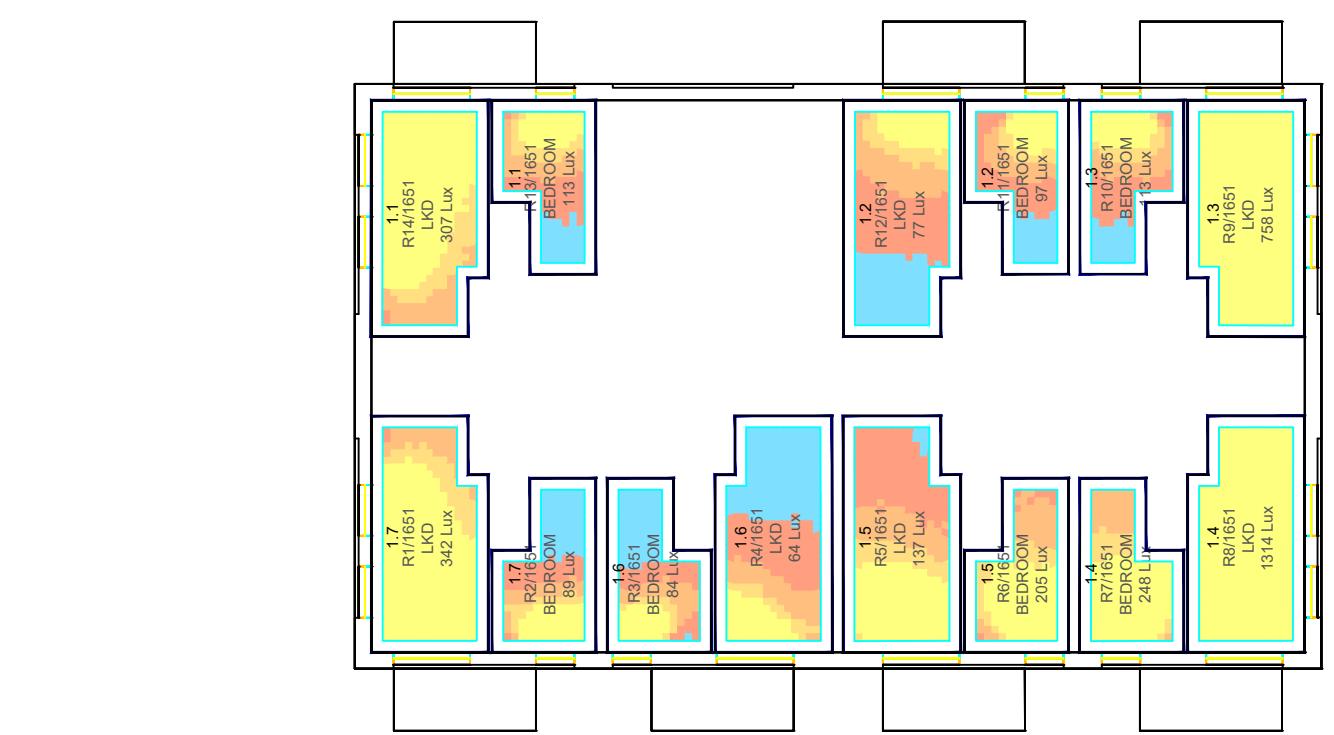
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| R13/1653 | BEDROOM | 100 | 175.1 | 76.9 |
| R14/1653 | LKD | 200 | 652.2 | 98.9 |
| R11/1653 | BEDROOM | 100 | 152.3 | 74.2 |
| R12/1653 | LKD | 200 | 140 | 34.6 |
| R9/1653 | LKD | 200 | 944.3 | 100 |
| R10/1653 | BEDROOM | 100 | 176.5 | 77 |
| R7/1653 | BEDROOM | 100 | 359.5 | 100 |
| R8/1653 | LKD | 200 | 1504.7 | 100 |
| R5/1653 | LKD | 200 | 353.1 | 89.6 |
| R6/1653 | BEDROOM | 100 | 307 | 100 |
| R3/1653 | BEDROOM | 100 | 269.5 | 100 |
| R4/1653 | LKD | 200 | 334.4 | 81.9 |
| R1/1653 | LKD | 200 | 911.1 | 100 |
| R2/1653 | BEDROOM | 100 | 317.7 | 100 |
| R13/1654 | BEDROOM | 100 | 209.9 | 88.5 |
| R14/1654 | LKD | 200 | 766.1 | 100 |
| R11/1654 | BEDROOM | 100 | 179.8 | 86.3 |
| R12/1654 | LKD | 200 | 187.1 | 47.2 |
| R9/1654 | LKD | 200 | 1027.4 | 100 |
| R10/1654 | BEDROOM | 100 | 207.6 | 88.5 |
| R7/1654 | BEDROOM | 100 | 378.4 | 100 |
| R8/1654 | LKD | 200 | 1540.9 | 100 |
| R5/1654 | LKD | 200 | 372.1 | 93.3 |
| R6/1654 | BEDROOM | 100 | 313.1 | 100 |
| R3/1654 | BEDROOM | 100 | 295.4 | 100 |
| R4/1654 | LKD | 200 | 374.2 | 95.2 |
| R1/1654 | LKD | 200 | 989.4 | 100 |
| R2/1654 | BEDROOM | 100 | 352.9 | 100 |
| R13/1655 | BEDROOM | 100 | 253.9 | 100 |
| R14/1655 | LKD | 200 | 950.3 | 100 |
| R11/1655 | BEDROOM | 100 | 212.9 | 100 |
| R12/1655 | LKD | 200 | 291.3 | 69.3 |
| R9/1655 | LKD | 200 | 1188.9 | 100 |
| R10/1655 | BEDROOM | 100 | 254.4 | 100 |

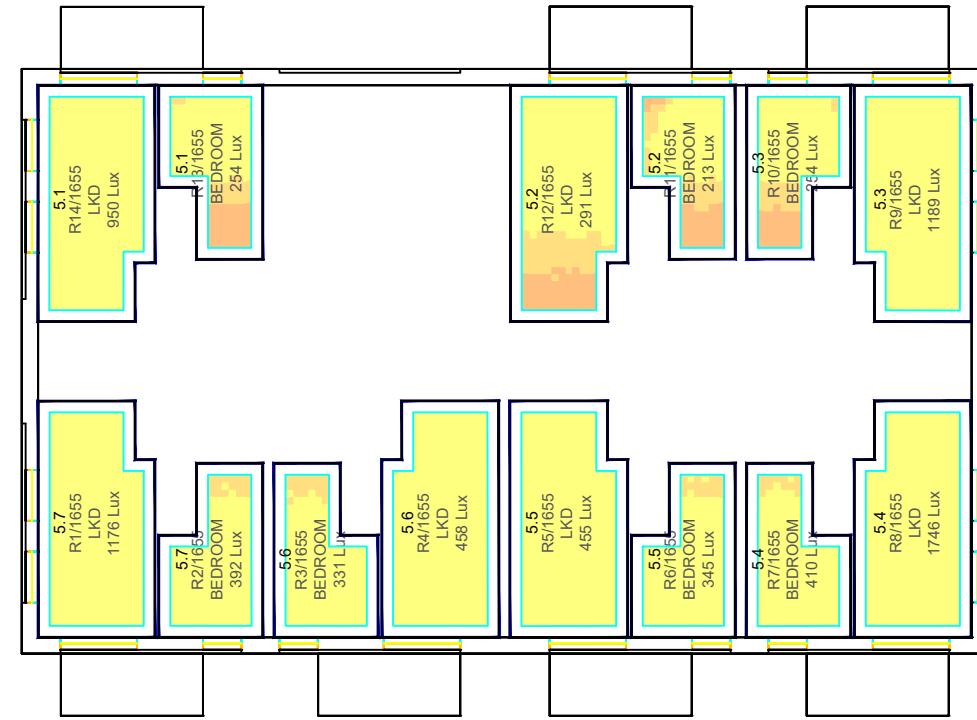


BRE CBDM ANALYSIS
NESTLE CANTEEN BUILDING, BLOCK H
SCHEME PR231020

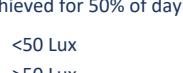
BRE CBDM ANALYSIS

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|---------|---------|-----|--------|-----|
| R7/1655 | BEDROOM | 100 | 409.6 | 100 |
| R8/1655 | LKD | 200 | 1746.3 | 100 |
| R5/1655 | LKD | 200 | 455.1 | 100 |
| R6/1655 | BEDROOM | 100 | 345 | 100 |
| R3/1655 | BEDROOM | 100 | 331.1 | 100 |
| R4/1655 | LKD | 200 | 458 | 100 |
| R1/1655 | LKD | 200 | 1176.5 | 100 |
| R2/1655 | BEDROOM | 100 | 392.2 | 100 |





FIFTH FLOOR

| | | | | | | | | | |
|--|---|---------------------|--|-------------|---------|---------|---------|---|--|
| <p>Sources:</p> <ul style="list-style-type: none"> Point Cloud Data Site Photos Received (20/10/20) <ul style="list-style-type: none"> F_dMFK_2052_Nestle 3d model_AUS_MA CLEAN_30-05-ifc - 3D View - {3D}.dwg H.dwg B_FNF-A-B-MKWR-M3-Facade_V2_detached.dwg C_065_NFH_HPK-HBA-00-ZZ-M3-A-015_BLOCK C_PRS_Detached.dwg | <p>Key: Daylight Illuminance (achieved for 50% of daylight hours)</p>  <p>Median Illuminance (Lux) Levels shown for each room.</p> <p>Recommended Targets:</p> <table> <tbody> <tr> <td>Bedroom</td> <td>100 Lux</td> </tr> <tr> <td>Living Room</td> <td>150 Lux</td> </tr> <tr> <td>Kitchen</td> <td>200 Lux</td> </tr> </tbody> </table> | Bedroom | 100 Lux | Living Room | 150 Lux | Kitchen | 200 Lux | <p>Project: Nestle Site, Hayes</p> | <p>Title: Plan View Internal Room Layout and Daylight Illuminance Study Block H</p> |
| Bedroom | 100 Lux | | | | | | | | |
| Living Room | 150 Lux | | | | | | | | |
| Kitchen | 200 Lux | | | | | | | | |
| | <p>Scheme Confirmed:</p> | <p>Date:</p> | <p>Drawn By: BA/NB/EVJ Scale: 1:200 Date: SEPT 2022 Dwg No: P774/CBDM 191 Rel: 23</p> | | | | | | |