Enfield Acoustics Pty Ltd
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September 30, 2021
Monolith Projects
Att: Frank Chao
Frank.c@monolithintl.com

Re: 149 Hansworth Street, Mulgrave, Stage 3 – Apartments

Enfield Acoustics has been engaged by Monolith Projects (Applicant) to review Amended Plans (dated 22 September 2021) for 149 Hansworth Street, Mulgrave. The Applicant seeks an amendment to previously endorsed plans under Section 87A to reflect the Amended Plans. The proposed development includes:

- Stages 1 & 2, 28 Townhouse units
- Stage 3, Apartment tower

This assessment relates to the Stage 3 Apartment units only, noting that advice for Stages 1 & 2 is responded to in document ref: **V661-02-P Acoustic Assessment – Section 87A Amendment.**

To this end, Enfield Acoustics has:

1. Reviewed the Endorsed Plans, 23 April 2019.
2. Reviewed the Endorsed Acoustic Report, prepared by SLR Consulting, 25 June 2019.
3. Compared the Amended Plans against the above endorsed documentation, to determine if any changes to those plans require further consideration of acoustic impacts.

On comparison of the Endorsed and Amended Plans, we note the following:

- Locations of the proposed apartments have generally remained consistent with the Endorsed Plans. However, changes to apartment layouts and extent of glazing in the Amended Plans is considered material.
- An update to the traffic noise modelling is required, and as a result, the glazing and façade construction advice for the Subject Land

PROJECT DESIGN GOALS

Our assessment has adopted the same project design goals as the Endorsed Acoustic Report, as follows:

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3.4 Project Design Goals

In accordance with the more recent Better Apartment Design Standards document the internal design noise goals for apartments within the development are as follows.

Table 2 Project Design Goals

Type of occupancy	Recommended design sound level, dBA
Sleeping areas	35 Leq, 8h
Work and Living areas	40 Leq, 16h

Note: The above goals are to be achieved inside an unfurnished apartment with windows closed and floor finished.

It should be noted that the above represents a minimum amenity outcome for the purpose of a planning assessment. The developer should consider the market sector and buyer expectations of these apartments. Further acoustic upgrades may be appropriate.

NOISE MODELLING

Enfield Acoustics has updated the noise modelling to reflect the Amended Plans using noise monitoring data previously obtained by SLR (refer Endorsed Acoustic Report). The modelling parameters and assumptions used in our noise model is consistent the methodologies used in the Endorsed Acoustic Report, however our noise model has been conducted using the software CadnaA (instead of SoundPlan that was used by SLR). In practice, the same modelling algorithm (ISO9613) is used by both software's, meaning that the noise model is considered to be identical when predicting traffic noise levels on the Subject Land.

The noise model was calibrated to 77.5dB(A) $L_{Aeq\text{-}16hr}$ at Location B, at a height of 6.5m above ground level to replicate SLR's noise model, as follows:

Glazing and Façade Recommendations

Our assessment indicates that glazing and façade construction required to comply with the project design criteria under the Amended Plans are generally consistent with what was recommended in the Endorsed Acoustic Report.

For consistency, we have generally retained the glazing and façade construction types recommended in the Endorsed Acoustic Report (refer to Appendix A).

Updated markups based on our assessment of the Amended Plans is presented in Appendix B.

We note that the requirement for Type C glazing (50mm air cavity) has been removed to facilitate easier coordination during construction given that it is almost identical to the better performing Type B glazing (100mm air cavity). On this basis, Type B glazing has been recommended in all areas where Type C glazing would have been otherwise required.

Where wintergardens are proposed, external glazing in accordance with Type F applies.

SUMMARY

Enfield Acoustics has conducted an assessment of traffic noise impacts to Stage 3 – Apartments for the Subject Land of 149 Hansworth Street, Mulgrave and is satisfied that the Amended Plans for the Apartment component of the project can be endorsed by Council where glazing and façade construction is updated to reflect the advice in Appendix A and Appendix B of this report.

Please do not hesitate to contact our office if you require further information.

Regards

Mark Chew
Associate
Enfield Acoustics Pty Ltd
mark@enfieldacoustics.com.au

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APPENDIX A – GLAZING AND FAÇADE TYPES

7 ROAD TRAFFIC NOISE THROUGH GLAZING

In most buildings the main acoustical weakness is the glazing. Standard masonry construction typically provides well above 45 dBA noise reduction compared to typical glass which provides a noise reduction in the range of 25 to 30 dBA. As such, it is the glazing that requires specific attention in regard to noise intrusion.

Internal road traffic noise levels have been calculated to the proposed apartments taking into consideration the following factors:

- The predicted external noise level from the 3D computer noise model.
- The sound spectrum of the external noise source.
- Area and orientation of the glass.
- The sound insulation performance rating of the proposed glass across the entire sound spectrum.
- The size and amount of absorption within the room.

8 RECOMMENDATIONS

Recommendations for façade upgrades to control traffic noise are provided in the marked up drawings labelled as **1-A3** through **6-A3** of **Appendix D** (attached).

Facades that are not subject to, or likely to be subject to appreciable noise do not have glazing types specified. However we suggest that, as a minimum, 6.38 mm thick laminated glass is used throughout.

Full descriptions of upgrades are provided in **Table 7**. The full description includes recommendations for façade and ventilation treatments to ensure that the performance of the glazing is not compromised by these elements.

The advice provided in this report is for achieving the standards identified in **Table 2** in accordance with the recently released Victorian Government Better Apartment Design Standards. Where a higher level of acoustic amenity is required by the developer, the glazing should be upgraded from that proposed in this report. Glazing can also be upgraded to minimise the number of glazing types used on the project, noting that Type A is the highest acoustic rating and Type D the lowest.

Noise levels were also predicted to the townhouses located along the south and west boundaries of the site. Due to the exposed nature of the first three townhouses closest the Freeway (i.e. Units 19, 20, and 21) the recommendations provided in **Table 6** have also been provided to ensure internal noise goals are achieved.

Table 6 Recommended Treatments for Exposed Townhouses

Unit	Floor	Room	Façade	Recommendations (see Table 7)
21	G	Living / Dining	North and West	Type B –` 10.38lam/100/6
21	1F	Bedroom 4	North	Type C – 10.38lam/50/6
19, 20 & 21	GF, 1F & 2F	All habitable rooms		Type D – 10.38/12/6

The remaining townhouses are particularly well shielded by the above townhouses and residential tower to the northeast. Consequently, the predicted maximum noise levels during the night period were found to typically be below 64 dBA, $L_{eq(8h)}$ at the most exposed façades on the second floor. To suitably attenuate road traffic noise to these dwellings it is recommended that minor upgrades to the glazing be considered for the bedrooms and living areas in accordance with Type F (refer to **Table 7**).

Table 7 Glazing and Façade Definitions

Type	Short Description	Full Description	Minimum Glazing rating (rating provided is for the lowest performing option)	
			Rw	Rw+Ctr

A	10.38 lam/150/6	• Acoustic double glazing consisting of 10.38 mm laminated glass, minimum 150 mm airgap, and 6 mm glass.
		• It is noted that this high performance glazing system is only required for the Living / Dining Rooms in Apartments 212 through 712, and Apartment 806. These corner apartments have the largest area of glass and are exposed to the highest daytime noise levels at the development (up to 80 dBA, $L_{eq(16h)}$).
		Lower performance 10.38/100/6 mm acoustic double glazing can alternatively be used if the area of glass is reduced by at least 40%.
		• This type of glazing will need to be in the form of a jockey sash / secondary slider system.
		• Where sliding doors are used, two separate doors in separate frames are to be provided.
		• Acoustic seals to all doors and openable windows.
		• Frames not to degrade performance of windows.
		• For lightweight facade walls:
		  • Minimum 9 mm compressed cement sheet externally
		  • 100 mm thick, minimum 14 kg/m³ fibrous insulation to wall cavity
		  • Steel studs or timber studs with steel furring channels and clips
		  • 2 x 13 mm fire rated plasterboard internally
		  • OR alternative construction with an Rw rating of not less than 52 dB.
		  • Any penetrations through the façade for ventilation are to be acoustically treated. Options included fresh air transfer via the ceiling cavity in accordance with **Option A** of **Drawing 640.11107_1A4** (see **Appendix E**) OR via approved alternative mechanical means (eg. *Silenceair* fresh air intake).
			47	44

B	10.38lam/100/6 IGU	• Acoustic double glazing consisting of 10.38 mm laminated glass, minimum 100 mm cavity, and 6 mm glass. • This type of glazing will need to be in the form of a jockey sash / secondary slider system. • Where sliding doors are used, two separate doors in separate frames are to be provided. • Acoustic seals to all doors and openable windows. • Frames not to degrade performance of windows. • For lightweight facade walls:	45	40

Type	Short Description	Full Description	Minimum Glazing rating (rating provided is for the lowest performing option)	
			Rw	Rw+Ctr
		• Minimum 9 mm compressed cement sheet externally • 100 mm thick, minimum 14 kg/m³ fibrous insulation to wall cavity • Steel studs or timber studs with steel furring channels and clips • 2 x 13 mm fire rated plasterboard internally • OR alternative construction with an Rw rating of not less than 52 dB. • Any penetrations through the façade for ventilation are to be acoustically treated. Options included fresh air transfer via the ceiling cavity in accordance with **Option A** of **Drawing 640.11107_1A4** OR via approved alternative mechanical means (eg. *Silenceair* fresh air intake).		
C	10.38 lam/50/6 IGU	• Acoustic double glazing consisting of 10.38 mm laminated glass, 50 mm air gap, and 6 mm glass. • It is noted that the only supplier we are aware that can provide this system as a fully sealed Insulated Glazed Unit (IGU) is G. James. Where an alternative system is used, the acoustic double glazed system is to comprise: • 10.38 mm laminated glass, minimum 75 mm airgap, and 6 mm glass would likely need to be in the format of a jockey sash / secondary slider system. • No sliding windows or doors (except for secondary window). • Acoustic seals to all doors and openable windows. • Frames not to degrade performance of windows. • For lightweight facade walls: • Minimum 9 mm compressed cement sheet externally • 100 mm thick, minimum 14 kg/m³ fibrous insulation to wall cavity • Steel studs or timber studs with furring channels • 2 x 13 mm fire rated plasterboard internally • OR alternative construction with an Rw rating of not less than 52 dB. • Any penetrations through the façade for ventilation are to be acoustically treated. Options included fresh air transfer via the ceiling cavity in accordance with **Option A** of **Drawing 640.11107_1A4** OR via approved alternative mechanical means (eg. *Silenceair* fresh air intake).	40	38

NO LONGER REQUIRED - UPGRADED TO TYPE B

Type	Short Description	Full Description	Minimum Glazing rating (rating provided is for the lowest performing option)	
			Rw	Rw+Ctr

D	10.38 lam/12/6	• Double thermal glazing consisting of 10.38 mm laminated glass, 12 mm airgap, and 6 mm glass.
		• No sliding doors or windows to bedrooms.
		• Sliding doors to living rooms acceptable provided two sets of seals are installed to each side of the sliding door frame. Vertical seals to include one set of Q-Lon compressible seals and one set of fin and fur seals. Combined fin and fur seals acceptable for horizontal sides of frame. Eg. G. James Series 445.
		• Hinged windows to be fitted with two sets of compressible seals
		• Frames not to degrade performance of doors or windows.
		• For lightweight facade walls:
		  • Minimum 7 mm compressed cement sheet externally or 9 mm cement sheet
		  • 100 mm thick, minimum 14 kg/m³ fibrous insulation to wall cavity
		  • Steel studs or timber studs with furring channels
		  • 2 x 13 mm fire rated plasterboard internally
		  • OR alternative construction with an Rw rating of not less than 49 dB.
		• Hinged windows to be fitted with two sets of compressible seals
		• Any penetrations through the façade for ventilation are to be acoustically treated. Options included fresh air transfer via the ceiling cavity in accordance with **Option B** of **Drawing 640.11107_1A4** OR via approved alternative mechanical means (eg. *Silenceair* fresh air intake).
			39	34

E	12.76 lam **OR** ~~10.38 lam/12/6~~ 6.38 lam/12/6 (based on the description of this glazing, this appears to be a typo)	• 12.76 mm thick laminated glass **OR** thermal double glazed unit comprising 6.38 mm laminated glass, 12 mm air cavity and 6 mm float glass. • No sliding doors or windows to bedrooms • Sliding doors acceptable to living rooms • As a minimum, two sets of seals to be installed to each side of sliding door frame. Vertical seals to include one set of Q-Lon compressible seals and one set of fin and fur seals. Combined fin and fur seals acceptable for horizontal sides of frame. Eg. G. James Series 445. • Hinged windows to be fitted with two sets of compressible seals • Frames not to degrade performance of windows or doors. AND	36 34 (sliding doors only)	33 31 (sliding doors only)

Type	Short Description	Full Description	Minimum Glazing rating (rating provided is for the lowest performing option)	
			Rw	Rw+Ctr

		• For lightweight facade walls:
		  • Minimum 7 mm cement sheet externally
		  • 100 mm thick, minimum 14 kg/m³fibrous insulation to wall cavity
		  • Steel studs or timber studs with furring channels
		  • 1 x 13 mm fire rated plasterboard internally (or 2 x 10 mm standard core plasterboard)
		  • OR alternative construction with an Rw rating of not less than 45 dB.
		• Any penetrations through the façade for ventilation are to be acoustically treated. Options included fresh air transfer via the ceiling cavity in accordance with **Option B** of **Drawing 640.11107_1A4** OR via approved alternative mechanical means (eg. *Silenceair* fresh air intake).		

F	6.38 lam **OR** ~~6.38/12/6~~ 6/12/6 (based on the description of this glazing, this appears to be a typo) APPLY TO ALL OTHER AREAS NOT MARKED UP IN APPENDIX B	• 6.38 mm thick laminated glass **OR** thermal double glazed unit comprising 6 mm laminated glass, 12 mm air cavity and 6 mm float glass. • Acoustic seals to all doors and openable windows. • No sliding doors or windows to bedrooms. • Sliding doors acceptable to living rooms. As a minimum, combined fin and brush seals to be installed on all sliding doors. • Frames not to degrade performance of windows or doors.	32 30 (sliding doors only)	30 28 (sliding doors only)

GLAZING NOTES:

Window frames are not to degrade the performance of windows. Frames are to be not less than 2.5 mm thick aluminium unless tests conducted in a NATA certified laboratory are provided demonstrating that the recommended acoustic ratings can be achieved with alternative products.

Sliding doors for apartments should be designed such that there is no degradation in the sound isolation (Both R_w and $R_w + C_{tr}$) due to perimeter sealing. To comply, the doors should either:

- Have been tested in a NATA certified acoustical laboratory, and the results of the tests provided to Pong Construction prior to ordering of materials for manufacture, or
- Have been designed, or the design checked, by an acoustical consultant being employed by an Acoustical Consultant Company who is a Member or eligible for Membership of the AAAC.

If alternative glazing is offered, it will need to be demonstrated that the sound isolation at all 1/3 octave frequency bands is not less than for the nominated glazing.

The above recommendations are the minimum requirement for acoustics, and all glazing is also to conform to the relevant Codes.

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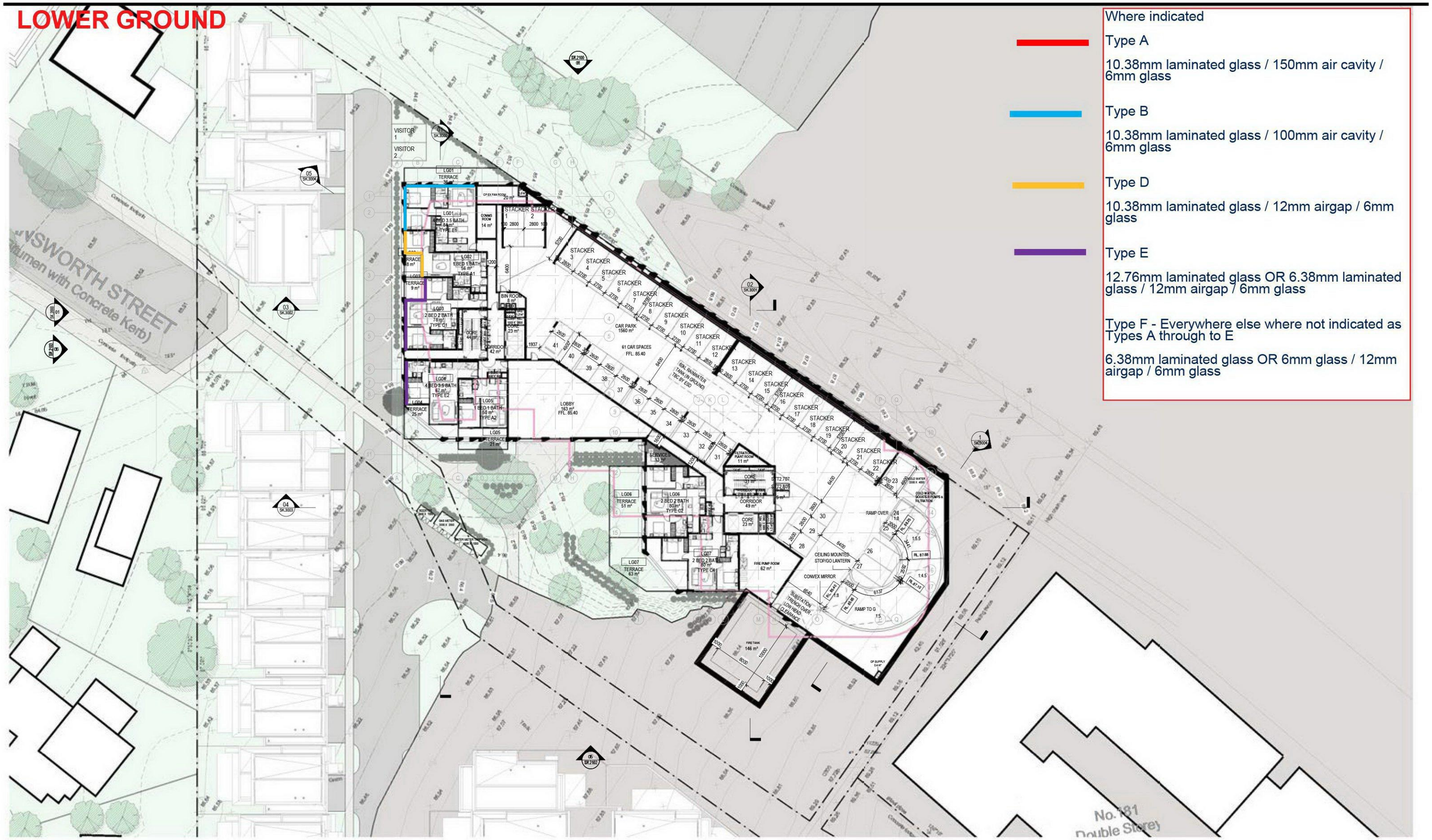
APPENDIX B – GLAZING MARKUPS

D21-352524

LOWER GROUND



Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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NOTES

Do not scale. Contractor must verify all dimensions on site before commencing any work or preparing shop drawings which must be approved by the architect before manufacture. Any extra entailed work shown on this drawing must be claimed and approved before proceeding.

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22/09/2021

PROJECT
HANSWORTH
149 HANSWORTH STREET, MULGRAVE 3170
MIXED USED DEVELOPMENT

DRAWING STATUS
SCHEMATIC DESIGN

JOB N°	20090
REVISION N°	
DATE	
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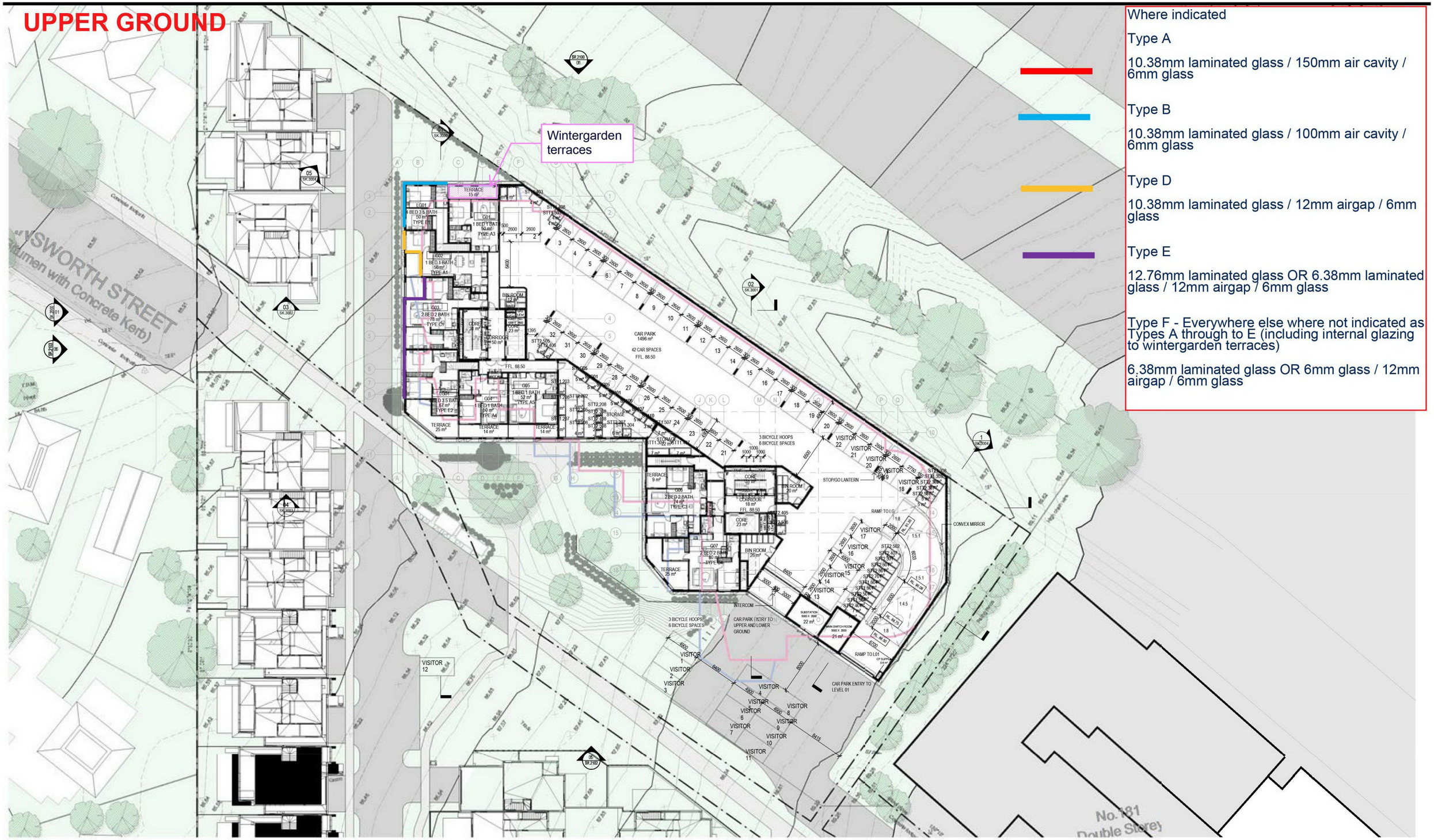
DRAWING TITLE
PROPOSED LOWER GROUND FLOOR PLAN

TP.1001

D21-352524

UPPER GROUND



Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E (including internal glazing to wintergarden terraces)

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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DRAWING TITLE
PROPOSED UPPER GROUND FLOOR PLAN

TP.1002

D21-352524

LEVEL 01

Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E (including internal glazing to wintergarden terraces)

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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DRAWING TITLE
PROPOSED LEVEL 01 FLOOR PLAN **TP.1003**

D21-352524

LEVEL 02

Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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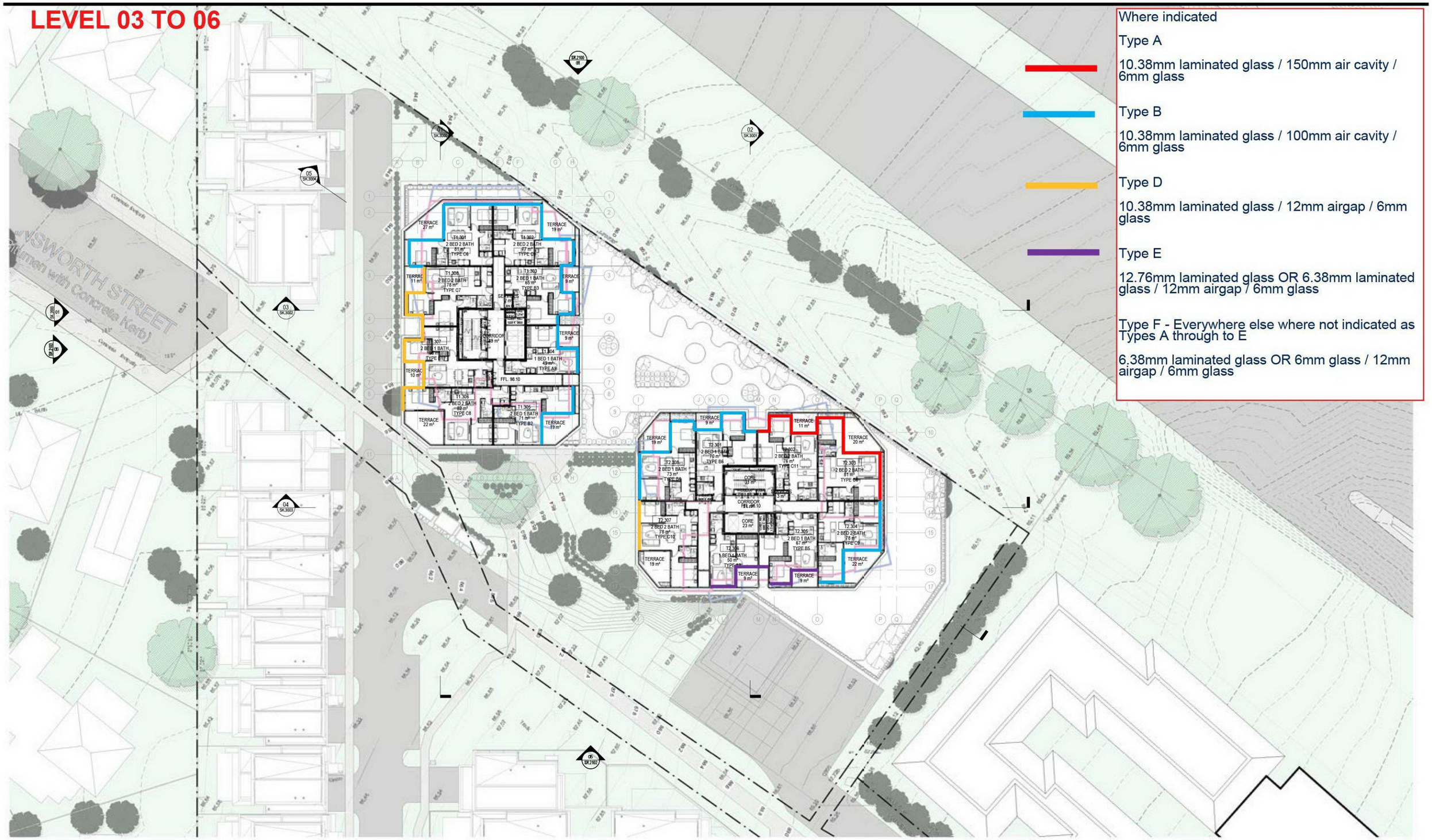
DRAWING TITLE
PROPOSED LEVEL 02 FLOOR PLAN

TP.1004

D21-352524

LEVEL 03 TO 06



Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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DRAWING TITLE
PROPOSED LEVEL 03 FLOOR PLAN

TP.1005

D21-352524

LEVEL 07

Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

10.38mm laminated glass / 100mm air cavity / 6mm glass

Type D

10.38mm laminated glass / 12mm airgap / 6mm glass

Type E

12.76mm laminated glass OR 6.38mm laminated glass / 12mm airgap / 6mm glass

Type F - Everywhere else where not indicated as Types A through to E

6.38mm laminated glass OR 6mm glass / 12mm airgap / 6mm glass

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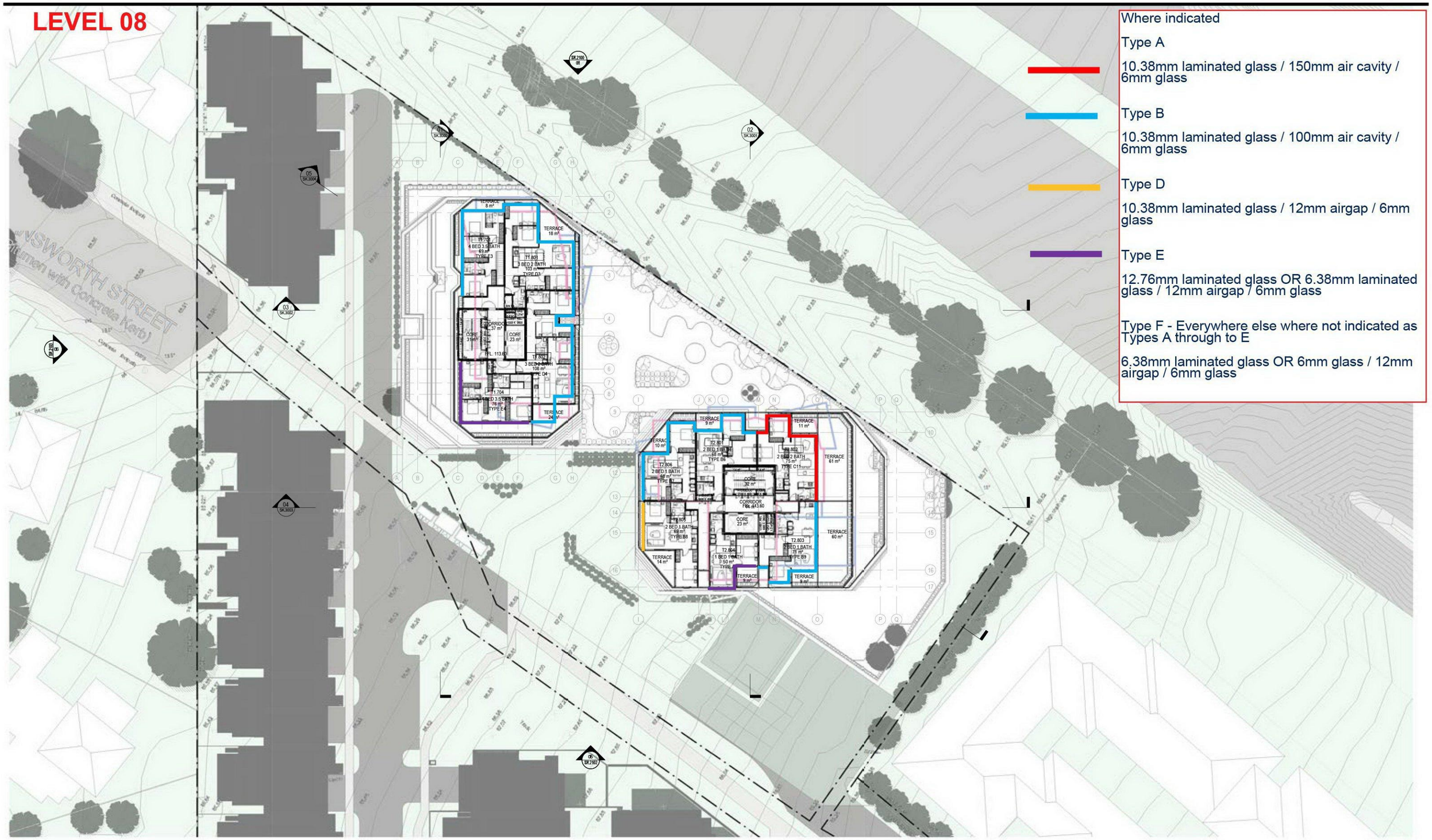
PROPOSED LEVEL 07 FLOOR PLAN TP.1009

LEVEL 08



Where indicated

Type A

10.38mm laminated glass / 150mm air cavity / 6mm glass

Type B

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PROPOSED LEVEL 08 FLOOR PLAN

TP.1010