

ADVERTISED PLAN



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Launch Housing Site 19 - 6 Abbott Street, Dandenong

Acoustic Assessment

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1 INTRODUCTION

Acoustic Logic (AL) has been engaged to undertake an acoustic assessment of the proposed apartment development located at 6 Abbott Street, Dandenong.

The assessment addresses external noise intrusion associated with the traffic, rail corridor and industrial area as well as potential noise emissions from site. The assessment has been conducted based on the following documentation.

Table 1 – Referenced Documents

Prepared By	Document	Reference	Date
Hayball	Architectural Drawings	TP00.00, TP00.01, TP01.01, TP02.00, TP02.01, TP02.02, TP02.03, TP02.04, TP02.06, TP02.07, TP02.08, TP06.01, TP06.02, TP06.03, TP06.04, TP06.05, TP10.01, TP10.02, TP15.01, TP15.02, TP15.03, TP15.04, TP18.00, TP18.01, TP18.02, TP20.01	29/11/2024
Greater Dandenong	Clause 58.04-3 of the planning scheme	-	14/12/2023
	Clause 53.20-6.16 of the planning scheme	-	1/01/2024
	Clause 53.20-7.7 of the planning scheme	-	14/12/2023
-	Australian Standard AS/NZS 2107:2016	-	2016
EPA Victoria	Noise Limit and Assessment Protocol (Noise Protocol)	Publication 1826.4	2021

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2 SITE DESCRIPTION

The subject development is located at 6 Abbott Street, Dandenong. The site is bounded by Abbott Street to the north, empty land to the east and west, and George Street ramp to the south. The Pakenham & Cranbourne (metro) / Bairnsdale (v-line) rail corridor is located approximately 70m to the south and south-west. There is industrial area approximately 250m to the west of site.

The proposal is for a 11-storey residential development over a single level of basement carpark.

Figure 1 below details the subject site and surrounding environment.



Figure 1 Subject site and surrounding environments (source: Google Maps)

2.1 LOCAL NOISE SOURCES

Acoustic Logic attended the site on multiple occasions and observed that the primary noise was noise associated with traffic along the George Street and train pass-bys on the rail corridor. There is also an industrial zoned area approximately 250m to the west of subject site. Noise from the industrial zoned area is inaudible at the subject site.

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3 ENVIRONMENTAL NOISE DESCRIPTORS

Environmental noise constantly varies in level, due to fluctuations in local noise sources including traffic and rail. Accordingly, a 15-minute measurement interval is normally utilised. Over this period, noise levels are monitored on a continuous basis and statistical and integrating techniques are used to determine noise description parameters.

In the case of environmental noise three principal measurement parameters are used, namely L_{10} , L_{90} and L_{eq} .

The L_{10} and L_{90} measurement parameters are statistical levels that represent the average maximum and average minimum noise levels respectively, over the measurement intervals.

The L_{10} parameter is commonly used to measure noise produced by a particular intrusive noise source since it represents the average of the loudest noise levels produced by the source.

Conversely, the L_{90} level (which is commonly referred to as the background noise level) represents the noise level heard in the quieter periods during a measurement interval. The L_{90} parameter is used to set the allowable noise level for new, potentially intrusive noise sources since the disturbance caused by the new source depends on how audible it is above the pre-existing noise environment, particularly during quiet periods, as represented by the L_{90} level.

The L_{eq} parameter represents the average noise energy during a measurement period. This parameter is derived by integrating the noise levels measured over the measurement period. L_{eq} is important in the assessment of traffic and rail noise impact as it closely corresponds with human perception of a changing noise environment; such is the character of industrial noise.

The L_1 parameter (or the noise level exceeded for 1% of the time) is used during the night period to assess potential sleep arousal effects due to transient noise sources.

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4 NOISE LEVEL MEASUREMENTS

4.1 MEASUREMENT LOCATIONS AND DATE OF MEASUREMENTS

Unattended and attended noise level measurements were conducted at the locations indicated in Figure 1. The noise level measurement locations are described below:

- Location 1 – Attended train noise level measurements were conducted on Foster Street. The sound level meter was approximately 1.5 metres above grade, approximately 12 metres from the nearest train line, had full view of rail corridor and was conducted in free field conditions. Measurements were undertaken on 17 June 2024.
- Location 2 – Attended traffic noise level measurements were conducted on the northern side of the George Street ramp. The sound level meter was approximately 1.5 metres above road level, had full view of George Street and was conducted in free field conditions. Measurements were undertaken on 17 and 25 June 2024.
- Location 3 – An unattended noise monitor was installed within the subject site to measure the background noise level. The monitor was installed 1.5m above ground level and conducted in free field conditions. The monitor was installed on site between 17 and 25 June 2024.
- Location 4 – An unattended noise monitor was installed at the western boundary of subject site to measure traffic along Pickett Street and Abbott Street and train noise from nearby rail corridors. The monitor was installed 1.5m above ground level and conducted in free field conditions. The monitor was installed on site between 17 and 25 June 2024.

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4.2 MEASUREMENT EQUIPMENT

Unattended noise monitoring was conducted using two Rion NL42 noise monitors. The equipment was calibrated at the beginning and the end of the measurement using a Rion NC-75 calibrator; no significant drift was detected. All measurements were taken on fast response mode.

A Norsonic Nor140 Sound Level Analyser was used for the attended noise level measurements. The equipment was calibrated at the beginning and the end of the measurement using a Rion NC-75 calibrator; no significant drift was detected. All measurements were taken on fast response mode.

4.3 MEASURED NOISE LEVELS

The tables below detail the measured noise levels obtained from the unattended noise monitoring at the subject site.

Table 2 – Unattended Background Noise Level Measurements – Location 3

Period	Time	Measured Background $L_{90,Period}$ dB(A)
Day	7am – 6pm (Mon – Sat)	48
Evening	6pm – 10pm (Mon – Sat) 7am – 10pm (Sun)	43
Night	10pm – 7am	40

Table 3 – Unattended Traffic Noise Level Measurements – Location 4

Measurement Location	Period	Measured Noise Levels ¹
Measurement Location 4 as indicated in Figure 1	Day (7:00-22:00)	57 dB(A) $L_{eq, 1hr}$
	Night (22:00-7:00)	56 dB(A) $L_{eq, 1hr}$

Note 1 – Typical highest noise during the period.

The measured traffic and train noise levels from attended measurements are presented in the tables below.

Table 4 – Attended Traffic Noise Level Measurements

Measurement Location	Date and Time of Measurements	Measured Noise Levels dB(A) $L_{eq, 15mins}$
Measurement Location 2 as indicated in Figure 1 (facing George Street)	17/06/2024 (17:09-17:24)	74
	17/06/2024 (17:24-17:39)	72
	25/06/2024 (06:30-06:45)	69
	25/06/2024 (06:45-07:00)	70
	25/06/2024 (07:00-07:15)	69
	25/06/2024 (07:15-07:30)	70

Table 5 – Attended Train Noise Level Measurements

Location	Period	Measured Noise Levels ¹
Measurement Location 1 - facing Pakenham/Cranbourne Metropolitan rail corridor	Day (6:00-22:00)	63 dB(A) $L_{eq, 16hr}$
	Night (22:00-6:00)	58 dB(A) $L_{eq, 8hr}$

Note 1: Train noise L_{eq} was derived by measuring the level of multiple train pass-bys and deriving a Sound Exposure Level (SEL). An $L_{eq, 16hr}$ and $L_{eq, 8hr}$ value then derived from this based on the frequency of the train service during these periods.

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5 ASSESSMENT CRITERIA

5.1 STANDARD D16 OF CLAUSE 58.04-3 / CLAUSE 53.20-7.7

Standard D16 of Clause 58.04-3 contains the following condition, this reflects the requirements of Clause 53.20-7.7:

Standard D16

Noise sources, such as mechanical plants should not be located near bedrooms of immediately adjacent existing dwellings or small second dwellings.

The layout of new dwellings and buildings should minimise noise transmission within the site.

Noise sensitive rooms (such as living areas and bedrooms) should be located to avoid noise impacts from mechanical plants, lifts, building services, non-residential uses, car parking, communal areas and other dwellings.

New dwellings should be designed and constructed to include acoustic attenuation measures to reduce noise levels from off-site noise sources.

Buildings within a noise influence area specified in Table D5 should be designed and constructed to achieve the following noise levels:

- *Not greater than 35dB(A) for bedrooms, assessed as an LAeq,8h from 10pm to 6am.*
- *Not greater than 40dB(A) for living areas, assessed LAeq,16h from 6am to 10pm.*

Buildings, or part of a building screened from a noise source by an existing solid structure, or the natural topography of the land, do not need to meet the specified noise level requirements.

Noise levels should be assessed in unfurnished rooms with a finished floor and the windows closed.

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Table D5 Noise influence area

Noise Source	Noise influence area
Zone interface	
Industry	300 metres from the boundaries
Roads	
Freeways, tollways and other roads carrying 40,000 Annual Average Daily Traffic Volume	300 metres from the nearest trafficable lane
Railways	
Railway servicing passengers in Victoria	80 metres from the centre of the nearest track
Railway servicing freight outside Metropolitan Melbourne	80 metres from the centre of the nearest track
Railway servicing freight in Metropolitan Melbourne	135 metres from the centre of the nearest track

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Note: The noise influence area should be measured from the closest part of the building to the noise source.

Decision guidelines

Before deciding on an application, the responsible authority must consider:

- The design response.
- Whether it can be demonstrated that the design treatment incorporated into the development meets the specified noise levels or an acoustic report by a suitably qualified specialist submitted with the application.
- Whether the impact of potential noise sources within a development have been mitigated through design, location and siting.
- Whether the layout of rooms within a dwelling mitigates noise transfer within and between dwellings.
- Whether an alternative design meets the relevant objectives having regard to the amenity of the dwelling or small second dwelling and the site context.

Based on these conditions, the subject site has been reviewed as follows:

1. The development **is** within 300m of an industrial zone.
 - The nearest industrial zone is located approximately 250m to the west from the subject site. The industrial noise is inaudible at the subject site no further investigation has been undertaken regarding the industrial zone.
2. The development is **not** within 300m of a freeway, tollway or road carrying an AADT >40,000.
3. The development **is** within 80m of railway servicing passengers and freight.
 - The nearest track is located approximately 70m to the southwest of the subject site.

5.2 AS/NZS 2107:2016

Australian Standard AS/NZS2107:2016 "Recommended Design Sound Levels and Reverberation Times for Building Interiors" sets out recommended design sound levels for residential developments depending on locality to minor or major roads. Table 6 below details the criterion set for this development.

Table 6 – Internal Noise Criteria – Surrounding Traffic

Location	Required Highest Internal Noise Level ¹	
	dB(A) L _{eq} 1hr (7am – 10pm)	dB(A) L _{eq} 1hr (10pm – 7am)
Bedrooms	35-45 ²	35-40
Living Areas	35-45	N/A
Apartment Common Areas	45-50	45-50
Work Areas	35-45	35-45

Note 1: Assessment is based on apartments suitably furnished ready for occupation.

Note 2: Bedrooms assessed as living rooms outside 10pm-7am.

5.3 EPA VICTORIA PUBLICATION 1826.4

To ensure that noise emissions from the proposed development site do not impact adversely on the amenity of the surrounding noise sensitive areas, the proposed development should be designed to comply with the requirements of EPA Publication 1826.4 – Part 1.

5.3.1 Zoning Level

The 'Zoning' level is determined by the Influencing Factor (IF) and is calculated by the formula and the 'Zoning Level versus Influencing Factor' graph nominated in Section 1.1 of EPA Publication 1826.4 and VicPlan Mapping. The IF is calculated from the proportion of industrial and commercial land around noise sensitive areas. Review of the surrounding area indicates an IF of approximately **0.45** which results in the zoning limits detailed in Table 7 below.

Table 7 - Zoning Levels

Period	Zoning Level dB(A)
Day	58
Evening	52
Night	47

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5.3.2 Criteria

Table 8 below details the assessment criteria based on both the zoning levels and the measured background noise levels.

Table 8 – Noise Limits

Period	Background dB(A) $L_{90,Period}$	Zoning limit	Classification	Project Noise Limits dB(A) L_{eq}
Day Monday – Saturday (7am – 6pm)	48	58	Neutral	<u>58</u>
Evening Monday – Saturday (6pm – 10pm) Sunday (7am – 10pm)	43	52	Neutral	<u>52</u>
Night Monday – Friday (10pm – 7am)	40	47	Neutral	<u>47</u>

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6 EVALUATION OF EXTERNAL NOISE INTRUSION

Internal noise levels will primarily be as a result of noise transfer through the windows, doors and lightweight walls as these are relatively light building elements that offer less resistance to the transmission of sound. Walls that are proposed to be heavy masonry elements and concrete roofs will not require upgrading.

The predicted noise levels through the windows, doors and lightweight walls are discussed below. The predicted noise levels have been based on the predicted level and spectral characteristics of the external noise, the area of building elements exposed to noise, the absorption characteristics of the rooms and the noise reduction performance of the building elements.

Glazing/façade treatment was determined based on the measured noise levels, the predicted loss across the site, and the transmission loss of the façade. The constructions set out below are necessary for the satisfactory control of external noise to comply with the internal noise level criteria.

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6.1 RECOMMENDED GLAZING

The glass thicknesses shown in the schedule do not take into account thermal, structural, safety or any other requirements other than acoustic requirements and thus may require upgrading in some instances. In these instances, increasing the glass thickness beyond the acoustic requirement will be acceptable. Where the glazing thickness has not been specified, standard glazing will be acceptable.

Table 9 below details the minimum R_w performance requirements for the glazing assembly installed. Where open-able windows or sliding doors are installed, the total R_w performance of the system shall not be lower than the values listed in this table. It is noted that the system supplied shall meet the overall minimum R_w ratings nominated based on a laboratory test report for the system. If an alternative system is proposed the system shall be reviewed and will require approval by a suitably qualified acoustic consultant to ensure that the proposed system is acceptable and will ensure compliance with the nominated internal noise design criteria.

Table 9 – Glazing Requirements

Location	Required Glazing Construction ¹	Minimum R_w of Installed Window System	Acoustic Seals ²
Refer to Appendix 1 – Façade Markup	6mm single glazing or 6/12/6 IGU	29	Yes
	10.38mm lam or 6/12/10.38mm lam IGU	35	Yes

Note 1 – Or alternative glazing system approved by a suitable qualified acoustic consultant.

Note 2 – Mohair Seals in windows and doors are **not** acceptable where acoustic seals are required. Seals in these instances shall be equal to Schlegel Q-Ion.

6.2 EXTERNAL WALL CONSTRUCTION

Any non-glazed sections of the façade which are proposed to be constructed from lightweight materials shall be designed to ensure compliance with the nominated internal noise criteria. Penetrations in walls must be sealed gap free with a flexible sealant. Any ventilation openings in walls shall be acoustically treated to maintain the acoustic performance of the external wall construction.

6.3 ROOF CONSTRUCTION

The roof construction proposed is concrete. Concrete roof areas will not require upgrading acoustically. If lightweight roof construction is proposed, it shall be reviewed by a suitably qualified acoustic consultant to ensure compliance with the internal noise level criteria detailed in in Section 5 are achieved.

Any ventilation openings through the roof would need to be acoustically treated to maintain the acoustic performance of the roof/ceiling construction.

7 ASSESSMENT OF PLANT AND EQUIPMENT

To ensure that noise emissions from mechanical plant and equipment serving the development do not impact adversely on the amenity of neighbouring residential properties, noise emissions from the mechanical plant and equipment serving the development shall comply with the requirements of EPA Publication 1826.4 – Part I.

The mechanical plant and equipment selections / design have not yet been finalised at this stage. To ensure amenity for future residents and nearby noise sensitive receivers is preserved, the mechanical plant and equipment serving the development shall be reviewed during the detailed design stage by a suitably qualified acoustic consultant to ensure that compliance with EPA Publication 1826.4 – Part I is achieved. This will be achieved by the use of standard acoustic treatment such as internally lined ductwork, acoustic screens/louvres, acoustic attenuators, variable speed drives, and vibration isolation mounts.

8 CONCLUSION

This report details our acoustic assessment of the proposed apartment development located at 6 Abbott Street, Dandenong. The recommendations detailed in Section 6 and 7 will ensure compliance with criteria detailed in Section 5.

We trust this information is satisfactory. Please contact us should you have any further queries.

Yours faithfully,



Acoustic Logic Pty Ltd
Stanley Sinatra

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APPENDIX 1 – FAÇADE MARKUP

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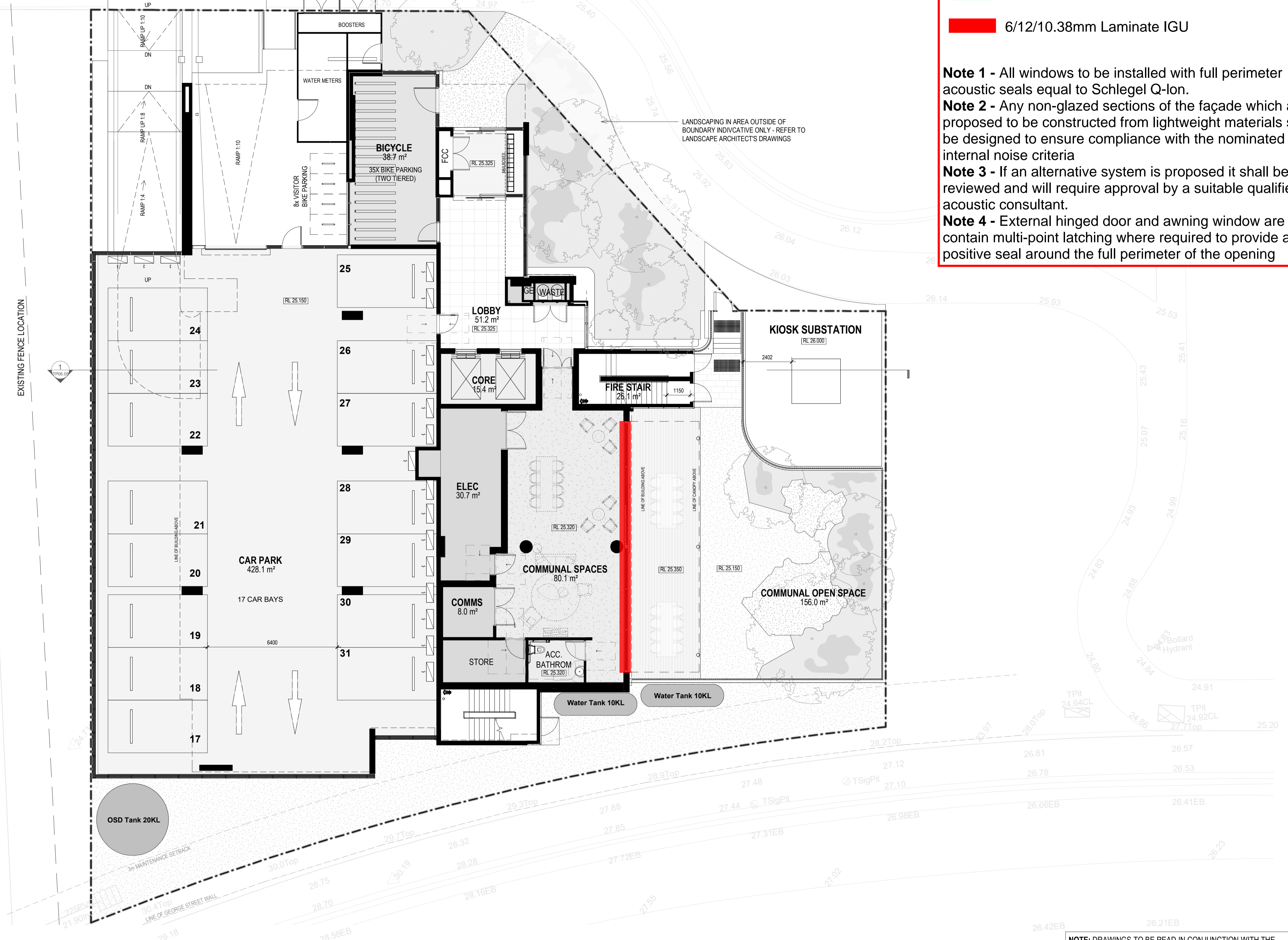


Glazing Construction

- 6/12/6mm IGU
- 6/12/10.38mm Laminate IGU

- Note 1** - All windows to be installed with full perimeter acoustic seals equal to Schlegel Q-Ion.
- Note 2** - Any non-glazed sections of the façade which are proposed to be constructed from lightweight materials shall be designed to ensure compliance with the nominated internal noise criteria
- Note 3** - If an alternative system is proposed it shall be reviewed and will require approval by a suitable qualified acoustic consultant.
- Note 4** - External hinged door and awning window are to contain multi-point latching where required to provide a positive seal around the full perimeter of the opening

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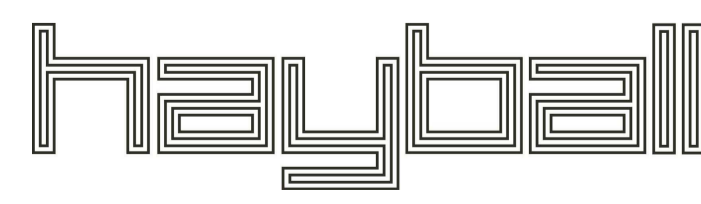
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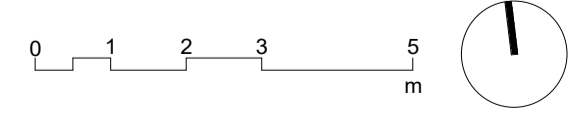
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TP01	26/07/2024	TOWN PLANNING ISSUE
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GROUND FLOOR

Status
TOWN PLANNING

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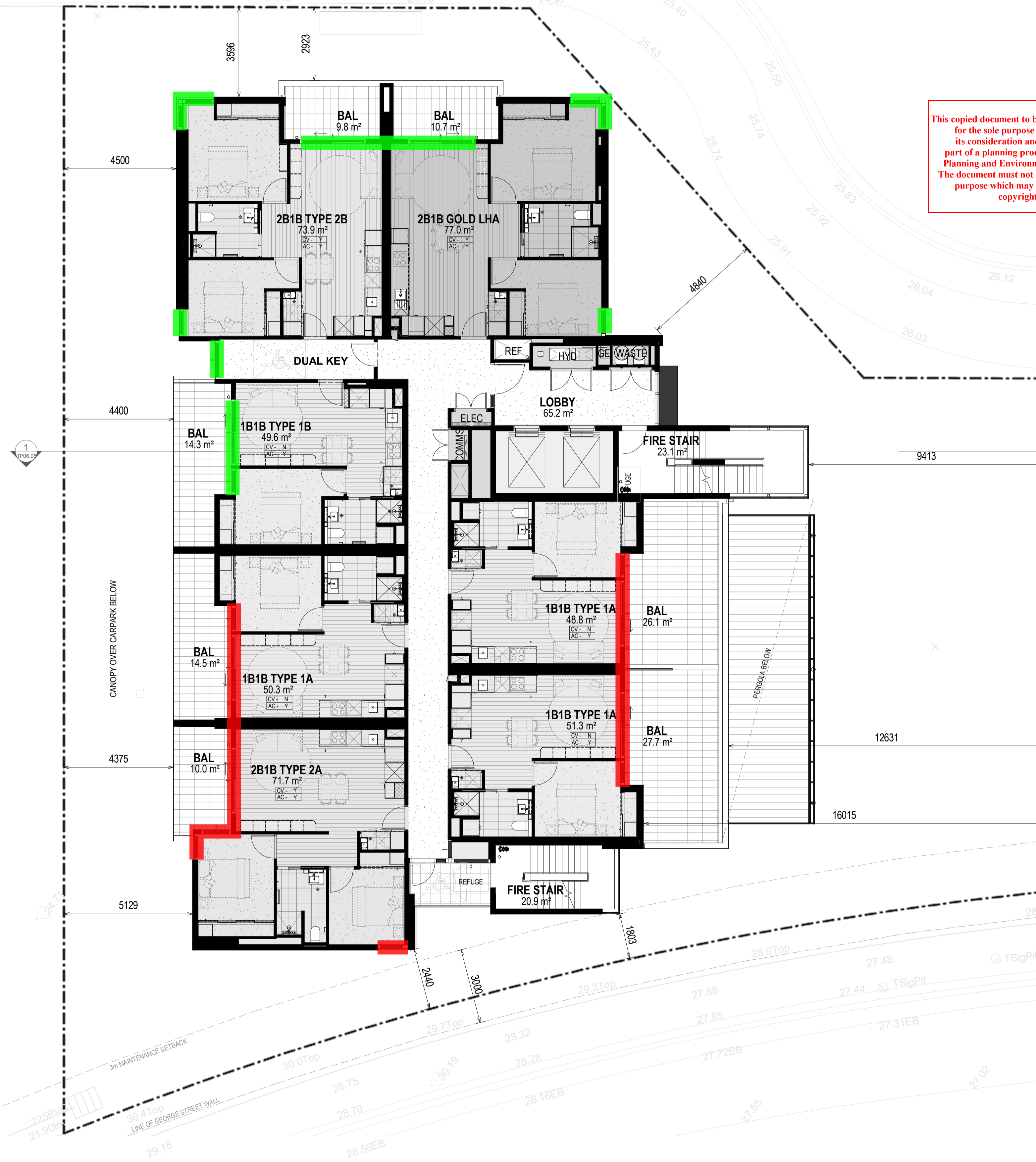
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Glazing Construction

- 6/12/6mm IGU
- 6/12/10.38mm Laminate IGU

- Note 1** - All windows to be installed with full perimeter acoustic seals equal to Schlegel Q-Ion.
- Note 2** - Any non-glazed sections of the façade which are proposed to be constructed from lightweight materials shall be designed to ensure compliance with the nominated internal noise criteria
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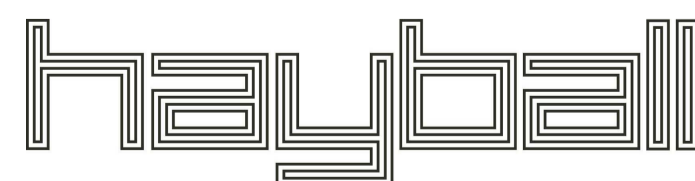
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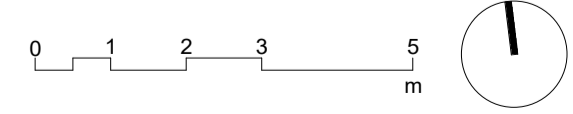
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TP02	18/08/2024	TOWN PLANNING ISSUE
TP03	29/11/2024	WIP

Drawing Title
LEVEL 1

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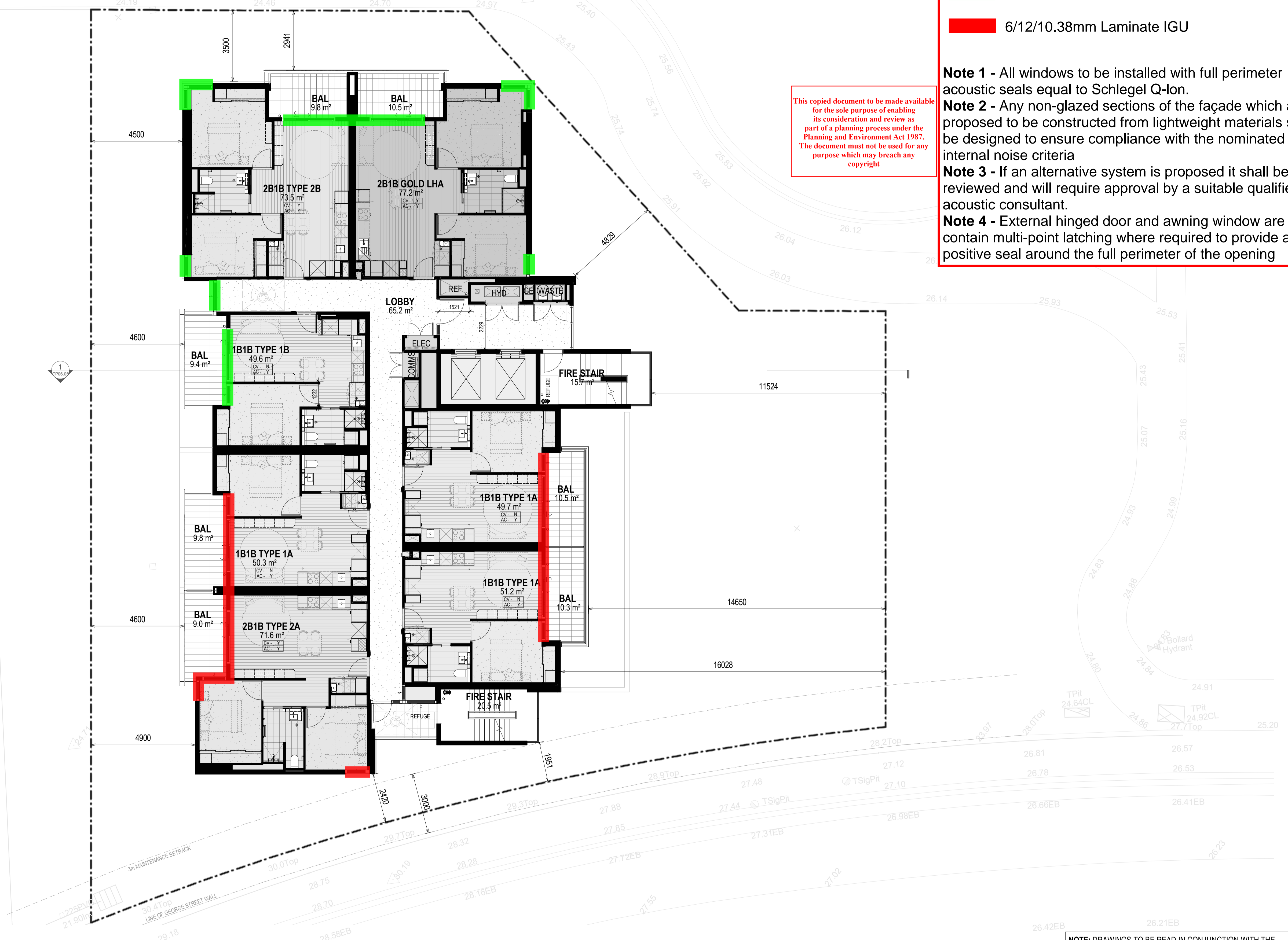
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Revision TP03

Glazing Construction

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- 6/12/10.38mm Laminate IGU

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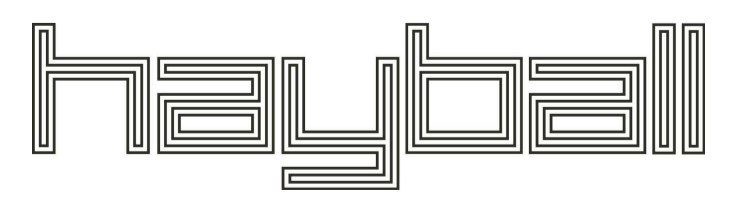
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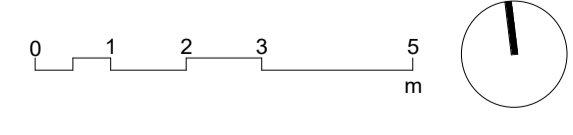
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Richard Leonard 7522, David Tordoff 8028



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Rev	Date	Description
TP01	26/07/2024	TOWN PLANNING ISSUE
TP02	18/08/2024	TOWN PLANNING ISSUE
TP03	29/11/2024	WIP

Drawing Title
LEVEL 2

Status
TOWN PLANNING

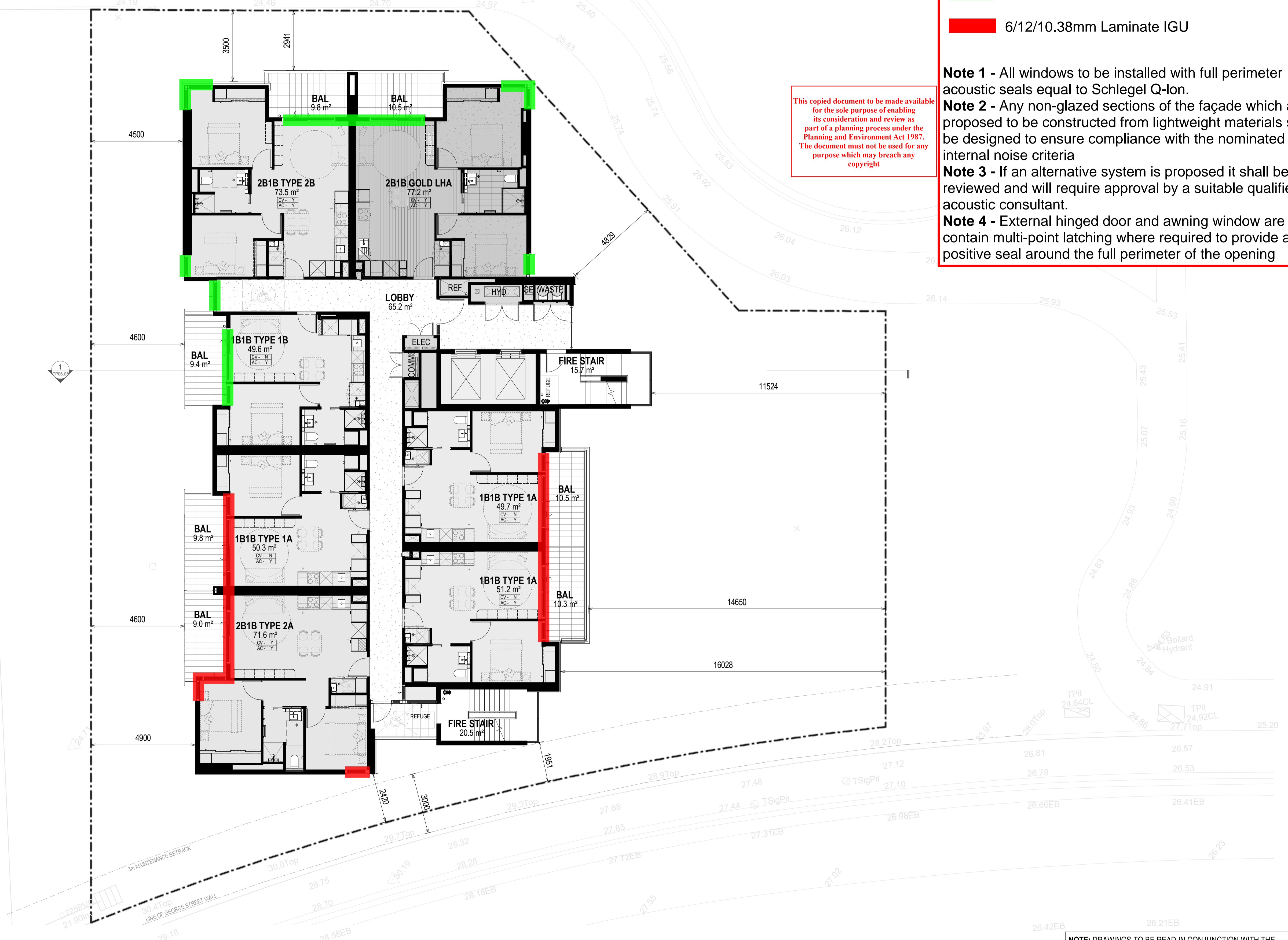
Project No 2637
Drawing No TP02.03
Revision TP03

Glazing Construction

- 6/12/6mm IGU
- 6/12/10.38mm Laminate IGU

- Note 1** - All windows to be installed with full perimeter acoustic seals equal to Schlegel Q-Ion.
- Note 2** - Any non-glazed sections of the façade which are proposed to be constructed from lightweight materials shall be designed to ensure compliance with the nominated internal noise criteria
- Note 3** - If an alternative system is proposed it shall be reviewed and will require approval by a suitable qualified acoustic consultant.
- Note 4** - External hinged door and awning window are to contain multi-point latching where required to provide a positive seal around the full perimeter of the opening

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NOTE: DRAWINGS TO BE READ IN CONJUNCTION WITH THE ACOUSTIC ENGINEER'S REPORT "SSA_R1_Acoustic_Assessment"

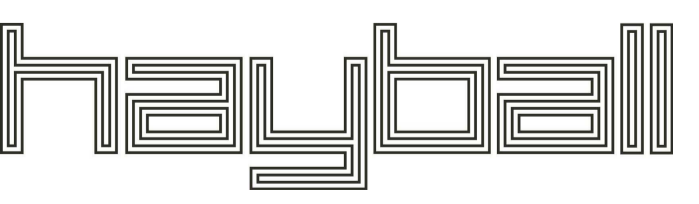
Project Title
LAUNCH HOUSING SITE 19
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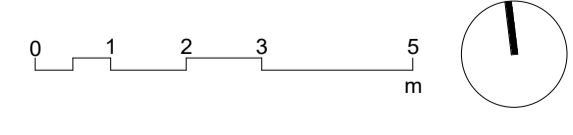
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TP03	29/11/2024	WIP

Drawing Title
LEVEL 3-4 TYPICAL

Status
TOWN PLANNING

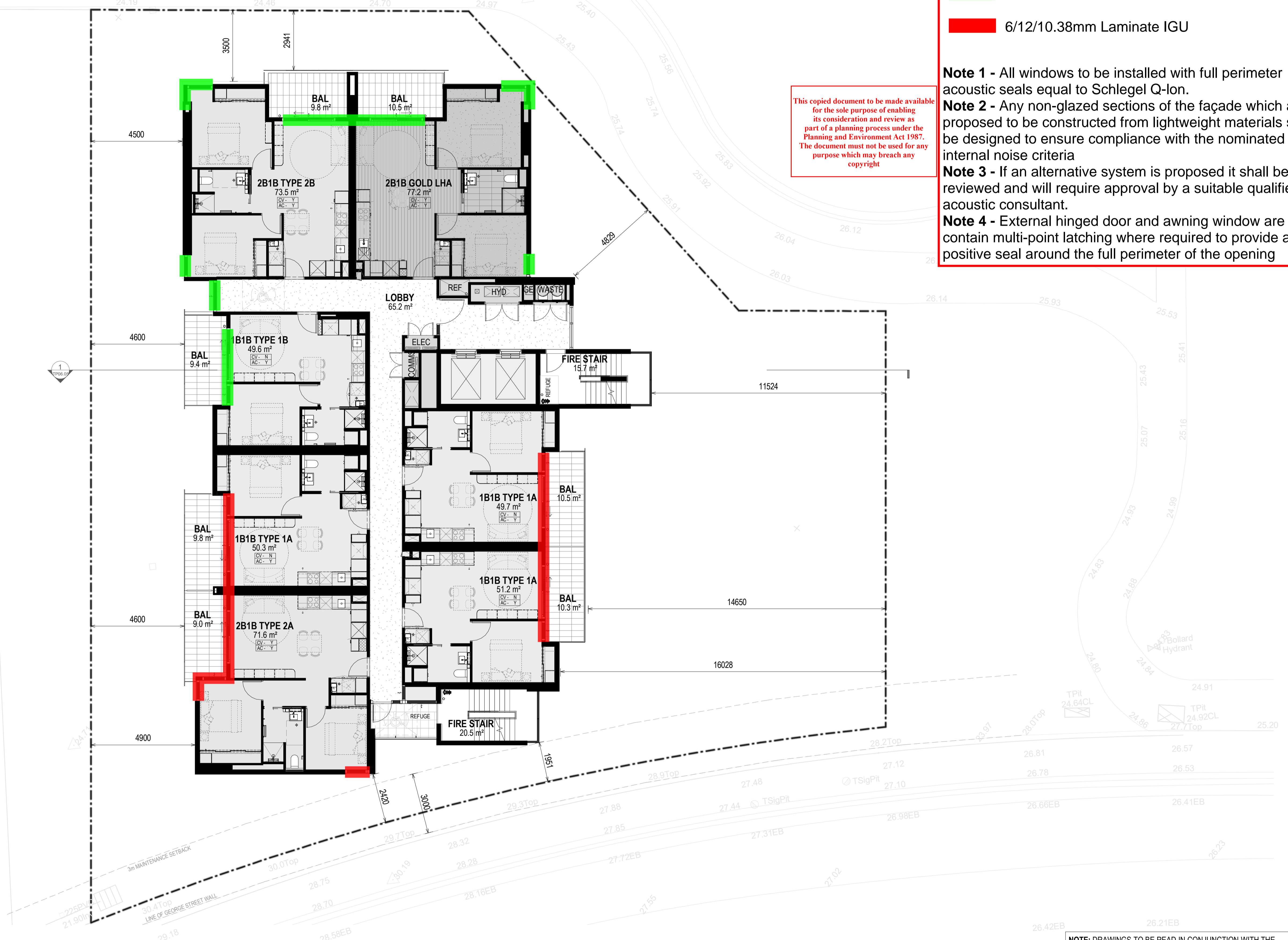
Project No 2637
Drawing No TP02.04
Revision TP03

Glazing Construction

- 6/12/6mm IGU
- 6/12/10.38mm Laminate IGU

- Note 1** - All windows to be installed with full perimeter acoustic seals equal to Schlegel Q-Ion.
- Note 2** - Any non-glazed sections of the façade which are proposed to be constructed from lightweight materials shall be designed to ensure compliance with the nominated internal noise criteria
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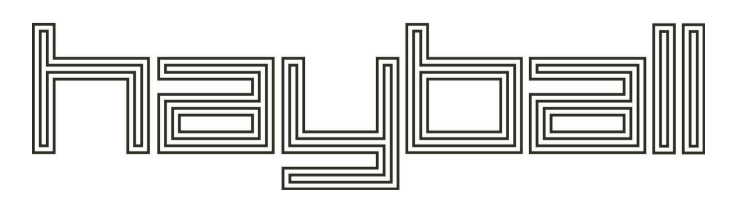
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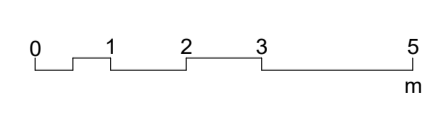
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TP03	29/11/2024	WIP

Drawing Title
LEVEL 5-7 TYPICAL

Status
TOWN PLANNING

Project No 2637
Drawing No TP02.06
Revision TP03

Date: 4/12/2024
Rev: 4

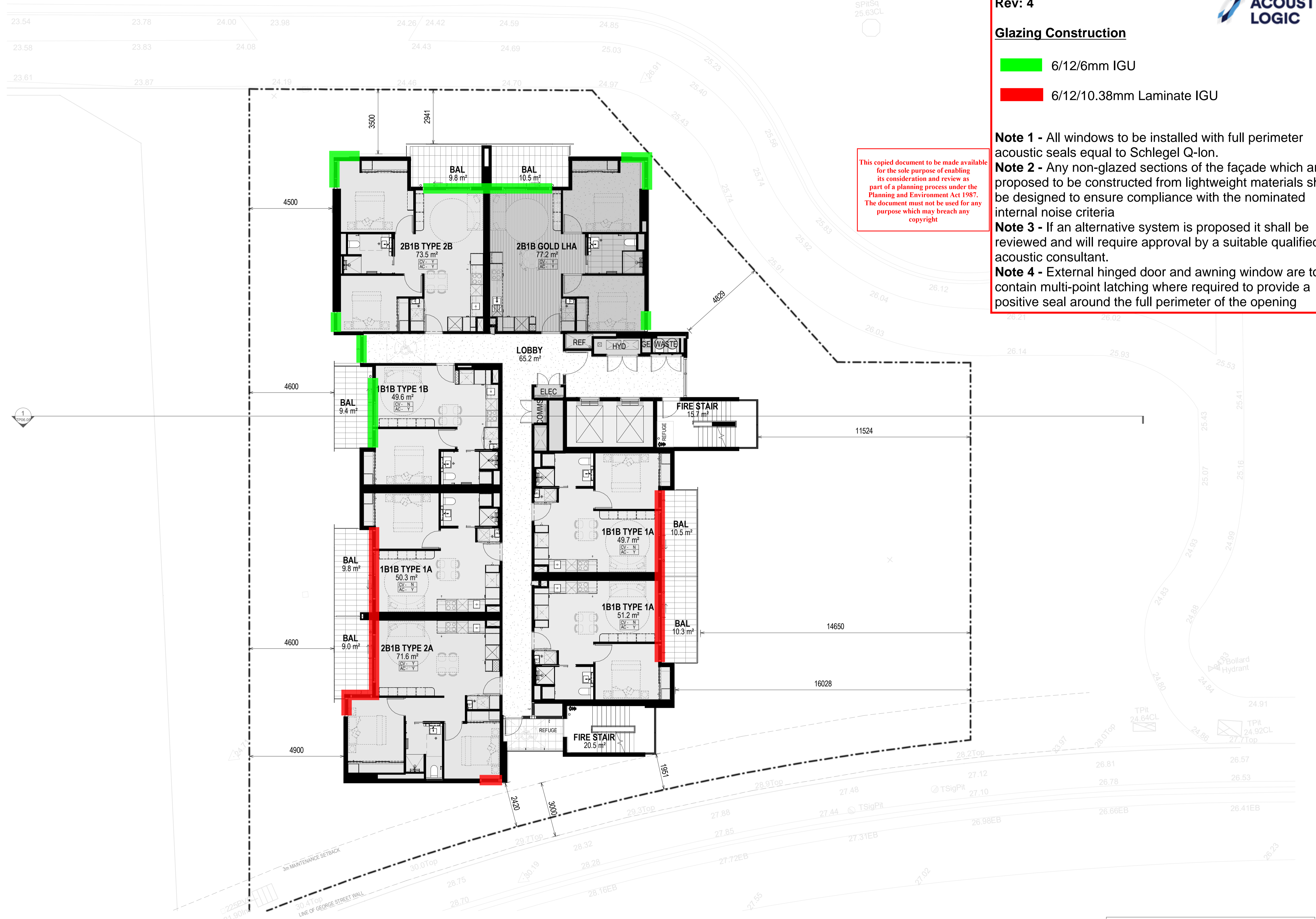


Glazing Construction

- 6/12/6mm IGU
- 6/12/10.38mm Laminate IGU

- Note 1** - All windows to be installed with full perimeter acoustic seals equal to Schlegel Q-Ion.
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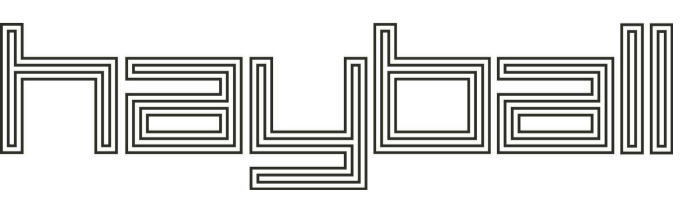
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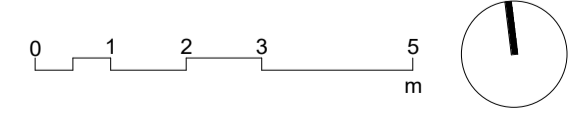
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TP03	29/11/2024	WIP

Drawing Title
LEVEL 8-10 TYPICAL

Status
TOWN PLANNING

Project No 2637
Drawing No TP02.07
Revision TP03

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