



Level 1 Suite 3, 29-33 The Corso, Manly

Reference 3334-NI-01-A

Project Details

Site Location

Level 1 Suite 3, 29-33 The Corso, Manly

Client

Bodylove Manly

Project Description

Pilates Studio

Project Reference

3334-NI



Project Details

Site Location	Level 1 Suite 3, 29-33 The Corso, Manly			
Client	Bodylove Manly			
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Project Reference	3334-NI			

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Release Details

Date	Version	Description		
03/02/2025	01-A	For submission to council.		

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1 INTRODUCTION

Soundscape Consulting Pty Ltd was commissioned by Bodylove Manly to complete a noise impact assessment at Level 1 Suite 3, 29-33 The Corso, Manly. The report is to be submitted to the certifying authority as part of the development application.

The proposal seeks consent for the use of the premises as a recreational facility (indoor) for a pilates studio. The internal fit-out of the premises will comprise of a main training area for a maximum of 30 patrons. A copy of the floorplans is available in appendix A.

The noise assessment follows the methodology of NSW EPA Noise Policy for Industry for assessing impacts to surround sensitive receivers. Where relevant, other criteria for noise intrusion and transmission have been applied as outlined in section 3 of the report.

The proposed scope of works are as follows:

- 1. Review client data including correspondence, operation details, plan drawings, aerial photos and specific material.
- 2. Noise criteria relevant to the project is identified based on the proposed operations, surrounding sensitive receivers and noise sources.
- Noise assessment of the site operations to predict the likely impact on surrounding receivers. The results of the assessment are summarised to verify compliance with the noise criteria or otherwise. Where compliance is not achieved, recommendations for mitigation are provided.
- 4. Recommendations are provided as required, and may include relocation of noisy equipment, sound walls, operational changes, or adjustments to the development.



2.1 NSW EPA Noise Policy for Industry (2017)

The Noise Policy for Industry (herein: NPI) applies to industrial noise sources from activities listed in Schedule 1 of the POEO Act and regulated by the EPA. All scheduled activities require an environment protection licence issued under the POEO Act.

The NPI sets out the EPA's requirements for the assessment and management of noise from industry in NSW. It aims to ensure that noise is kept to acceptable levels in balance with the social and economic value of industry in NSW. When new industry is being proposed or existing industry is being upgraded, redeveloped, or needs review, attention needs to be paid to controlling noise from the industry. The NPI is designed to assist industry and authorities to ensure that potential noise impacts associated with industrial projects are managed effectively.¹

The NPI recommends two noise criteria are considered, the Intrusive Noise Criteria and the Amenity Noise Criteria. The lowest value of the amenity and the intrusiveness noise level is adopted as the project noise trigger for the assessment.

Given the low impact of Pilate studios, we have adopted the minimum intrusive noise levels as per table 4.1 of the NPI when assessing external noise emission. For internal noise transmission, the lesser of the EPA NPI and AS 2107 (2016) has been adopted.

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Time of Day	RBL ¹	Intrusiveness ²	Amenity ³	Project Specific Levels³		
	Но	tel (Urban)				
Day (7:00–18:00)	35	40	65	40		
Evening (18:00–22:00)	30	35	55	35		
Night (22:00-7:00)	30	35	50	35		
Commercial						
When in use	-	-	65	62		

- 1) From table 4.1 of the NPI
- 2) Intrusiveness is equal to the RBL + 5.0 dBA.
- 3) Amenity noise levels are taken from table 2.2 of the NPI.
- 4) Project specific levels are the lesser of the intrusiveness, amenity and minimum values recommended by the NPI.

¹ NSW EPA Noise Guide for Local Government (2023) – Section 9.2



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2.2 Australian Standard 2107 (2016) Recommended Design Sound Levels and Reverberation Times for Building Interiors

AS2107 provides targets for the noise levels and reverberation times of rooms for a variety of building types, occupations, and activities. These targets contribute to the specification of building methods to control noise transmission, privacy, and acoustic comfort. The relevant criteria for the project have been extracted and summarised below.

Table 2.2.1: Recommended design sound levels and reverberation times

Type of occupancy/activity	Design Sound Level (LAeq)	Design reverberation time (s)			
Residential Buildings (suburban areas)					
Common Areas	45 - 50	-			
Living Areas	30 – 40	-			
Sleeping Areas	30 – 35	-			
Work Areas	35 - 40	-			



3 NOISE EMISSION ASSESSMENT

Pilates is a mind—body exercise that requires core stability, strength, and flexibility, and attention to muscle control, posture, and breathing. The slower and self-focused nature of the exercises produces far less noise than cross-fit or gym classes.

Soundscape have conducted previous noise measurements of a pilates studio with reformer equipment, consisting of a class of 16 patrons being led by an instructor. Measurements were taken as swept measurement throughout the room to obtain a spatial LAeq 63dBA. To obtain a clean baseline, no music or extraneous sources were present during the measurement. This data has been used for the equipment and instructors in this assessment, with music added over the top.

3.1 Operational assumptions

- The pilates studio is split into three main areas (see plan drawings):
 - 1. Mat studio: containing eight mats for yoga and stretching
 - 2. Reformer studio 1: 10 reformer benches
 - 3. Reformer studio 2: 8 reformer benches
- The studio will operate during the night period (pre 7am)
- Music may be played to provide a background ambience.
- All windows are fully open during the day, and closed during the evening and night period
- Clients will utilise existing local parking or public transport
- No new mechanical equipment is to be installed

3.2 Adopted Sound Power Levels

Table 3.2.1: Sound power levels (A-Weighted) for noise sources

Source	63	125	250	500	1000	2000	4000	8000	Total
Pilates Reformer Equipment,									
patrons and instructor	32	45	49	51	50	50	45	37	50
(dB/m2)									
Music Speaker	45	59	63	69	71	68	61	61	75



3.3 Noise modelling results – External Noise Emission

Noise modelling has been conducted using software validated against the ISO-9613 (2024) calculation methodology. The model is three dimensional, and includes the effects of reflections, ground absorption, meteorological conditions, and barriers. Noise modelling requires a simplification of real-world conditions into basic components. The layout, noise nodes, barriers, structures, and results from the noise modelling can be viewed in Appendix C.

Table 3.3.1: NPI Criteria Summary (from section 2.1)

Receiver	Day	Evening	Night		
Residential	40	35	35		
Commercial	62 (when in use)				

Table 3.3.2: Noise modelling results - Day period

Receiver	LAeq	Critical Criteria	Complies	Attenuation Required
R1	44	62	Yes	
R2	38	62	Yes	
R3	40	40	Yes	

Table 3.3.3: Noise modelling results - Night period

Receiver	LAeq	Critical Criteria	Complies	Attenuation Required
R1	27	62	Yes	
R2	25	62	Yes	
R3	33	35	Yes	

3.4 Internal Sound Transmission

An assessment of the internal sound transmission to the Ivanhoe Hotel (27 The Corso) has been undertaken. It is understood that the common wall of is constructed of double brick, which is typically suitable be suitable for attenuating Rw 45-50dBA.

The LAeq,15 min internal sound pressure level anticipated during a class when operating at full capacity with music playing is 70dBA. For sleeping areas, AS 2107 recommends a minimum internal noise level of 35dBA (section 2.3). 35dBA is also adopted by most NSW regulations and acts when considering acceptable internal noise levels.

Based on the above operations, the following attenuation is required:

Table 5.1: Minimum treatments for operational noise

Receiver	Source Noise Level LAeq	Criteria	Attenuation Required (Rw)	Achieved?
Ivanhoe Hotel	70	35	35	Yes



4 RECOMMENDATIONS

Based on the assessment, the proposed development has a low risk of impacting nearby receptors on the condition the following recommendations are implemented and/or maintained:

- 1. All external windows are closed during the evening and night period (6:00pm til 7:00am)
- 2. The music is played from a single portable Bluetooth speaker located away from windows, or if a music system is installed
 - a. Up to 2 speakers per room limited to a maximum sound pressure level of 65dBA when measured 1.0m and 45degrees from the front of the speaker.
 - b. Alternatively; an acoustic consultant should be engaged to check the system and provide recommendations for maintaining compliance as required.



5 CONCLUSION

Soundscape Consulting Pty Ltd was commissioned by Bodylove Manly to complete a noise impact assessment at Level 1 Suite 3, 29-33 The Corso, Manly. The report is to be submitted to the certifying authority as part of the development application.

The proposal seeks consent for the use of the premises as a recreational facility (indoor) for a pilates studio. The internal fit-out of the premises will comprise of a main training area for a maximum of 30 patrons.

Noise modelling was employed to predict the noise levels at surrounding sensitive receivers for assessment against the EPA Noise Policy for Industry criteria (see sections 2 and 3).

Provided the recommendations as presented in section 5 of the report are implemented, it is our opinion that the proposed development is capable of meeting the requirements of the EPA Noise Policy for Industry and NSW SEPP requirements.



Appendix A – Client Plan Drawings



BODYLOVE FITOUT Level 1 Suite 3, 29-33 The Corso MANLY, NSW

DEVELOPMENT APPLICATION

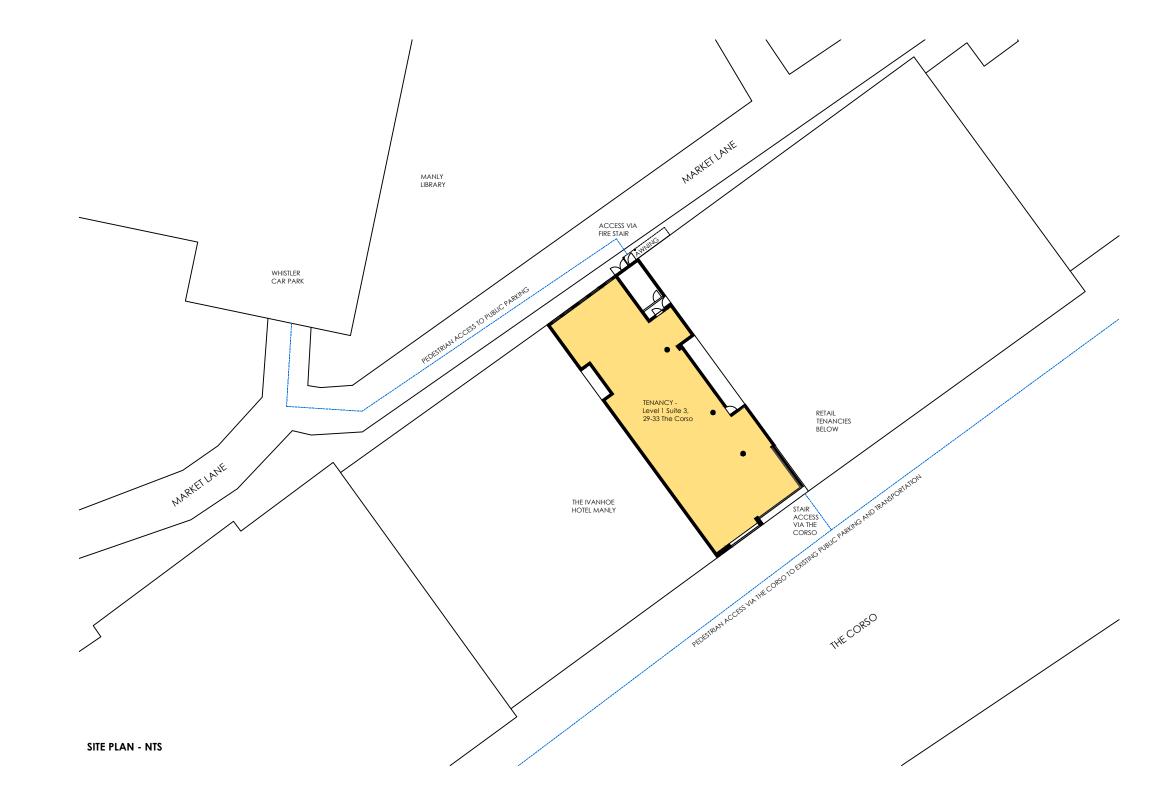
DA_A00 DA_A01

DA_A02

COVER PAGE AND SITE PLAN EXISTING TENANCY PLAN PROPOSED FITOUT PLAN

DA_A03 SIGNAGE ELEVATIONS -THE CORSO AND MARKET LANEWAY

SITE LOCATION: SUITE 3, LEVEL ONE 29-33 THE CORSO, MANLY NLA: 298.7SQM B2 - BUSINESS ZONE ZONING: CLASS 5 (OFFICE) **CURRENT USE:** PROPOSED USE: CLASS 9b (GYM)



DATE

17.12.24 DRAFT

ISSUE NO. ISSUE + REVISIONS FOR INFORMATION PRIOR TO THE COMMENCEMENT OF WORK, SURVEYAND VERIFY ALL GRIDLINES. CHECK ALL DIMENSIONS ON SITE USE FIGURED DIMENSIONS ONLY DO NOT SCALE. COMPLY WITH RELEVANT AUTHORITIES REQUIREMENTS. COMPLY WITH BUILDING CODE OF AUSTRALIA. COMPLY WITH ALL RELEVANT AUSTRALIAN STANDARDS. COPYRIGHT IN ALL DOCUMENTS AND DRAWINGS PREPARED BY LANE & GROVE (L&G)

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1.4 WHERE LIGHTS ARE REMOVED FROM A CIRCUIT, REMAINING LIGHTS SHOULD BE RE WIRED TO EXISTING SWITCH

1.5 BUILDER TO VERIFY ALL FIXING METHODS OF ANY ITEM TO EXISTING MASONRY WALLS AND ALLOW SUFFICIENT SYSTEMS TO APPROPRIATELY AND SECURELY FIX SUCH ITEMS

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PROJECT BODYLOVE FITOUT MANLY, NSW

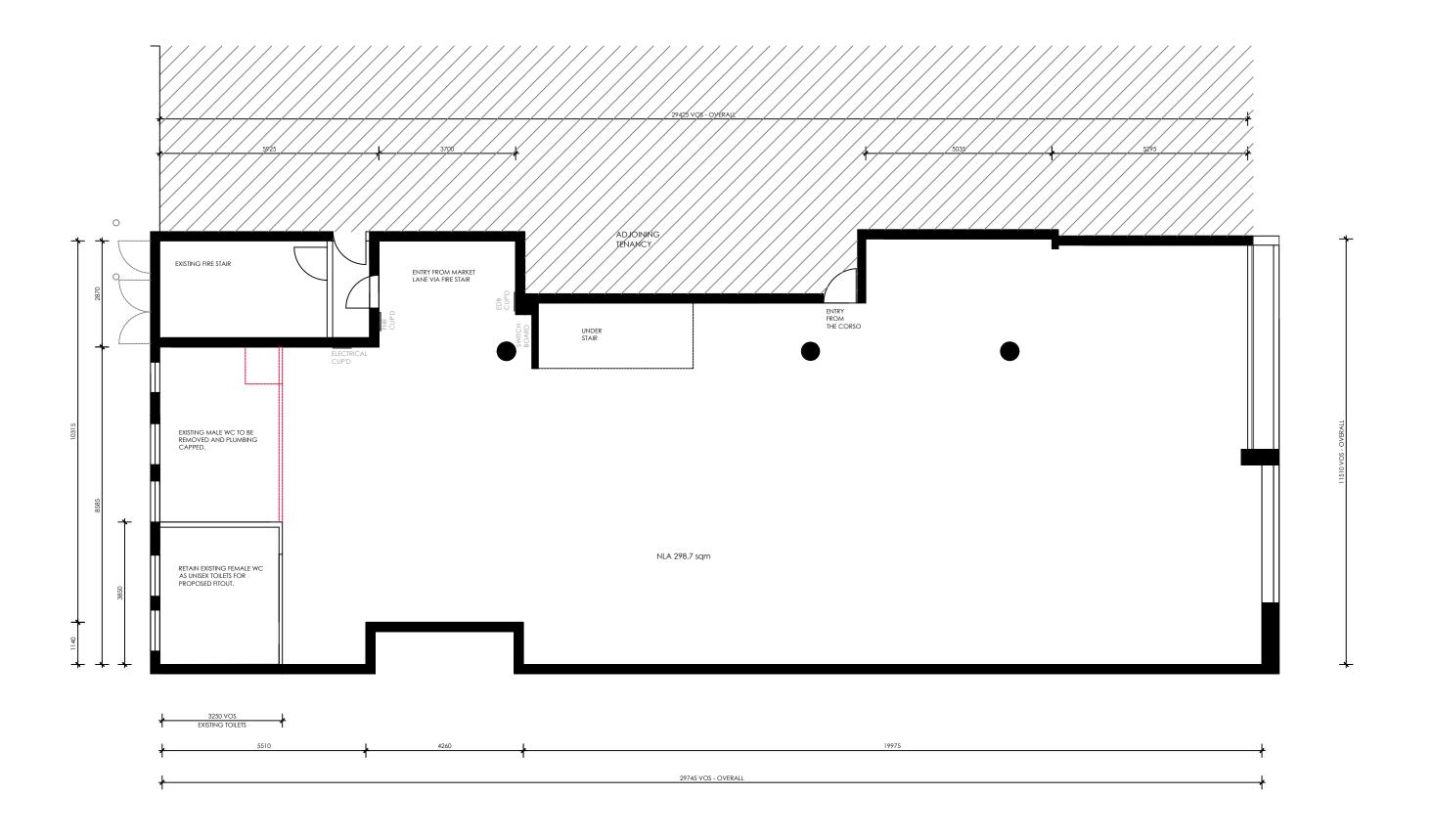
DEVELOPMENT APPLICATION

COVER PAGE AND SITE PLAN

PROJECT NO.

SCALE@A3

DWG NO. DA_A00 DRAFT



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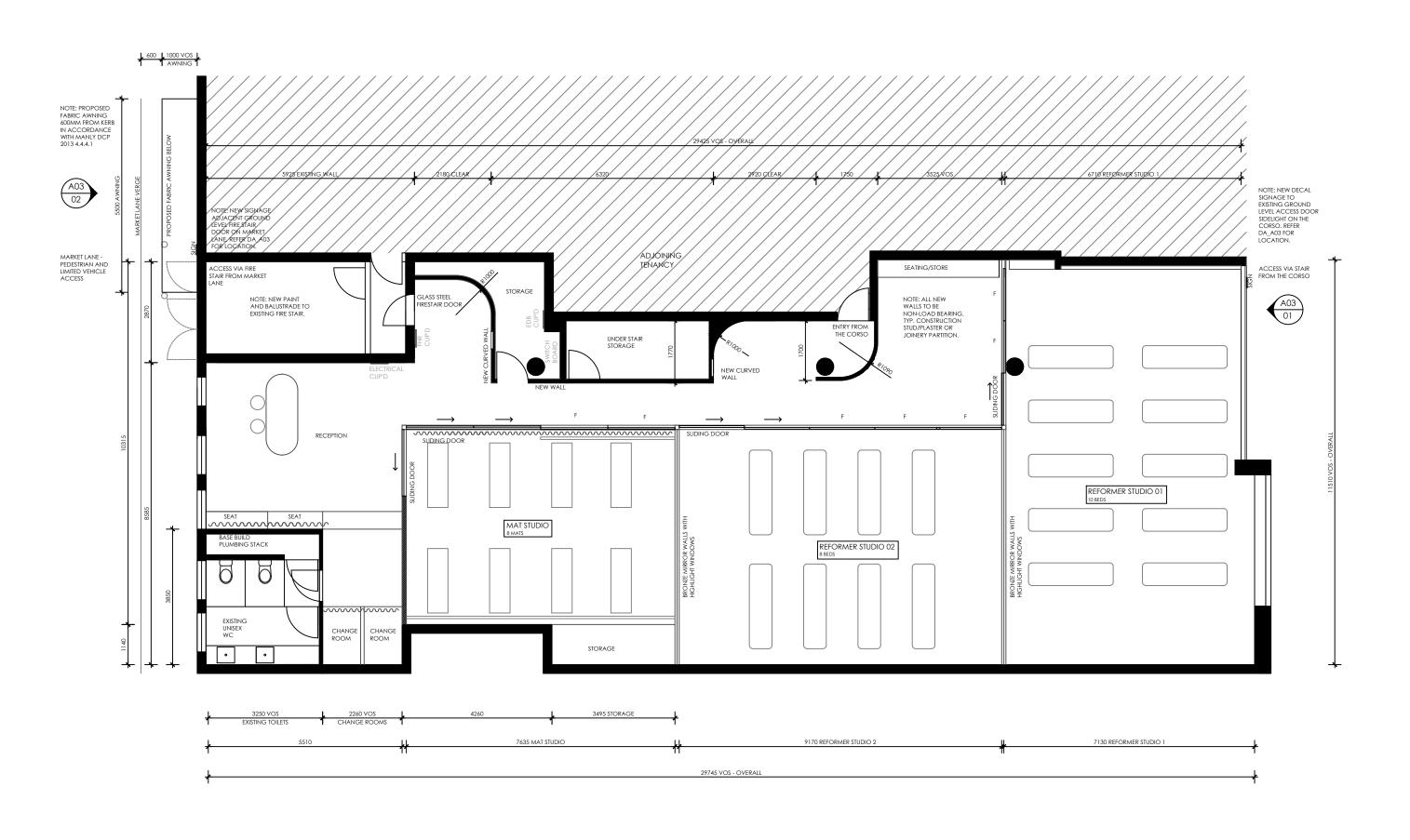
DEVELOPMENT

APPLICATION

DRAWING EXISTING TENANCY PLAN

PROJECT NO. SCALE@A3 1:100

> DWG NO. DRAFT DA_A01



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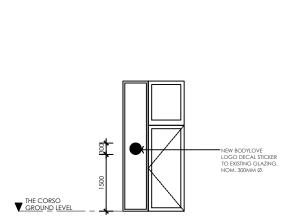
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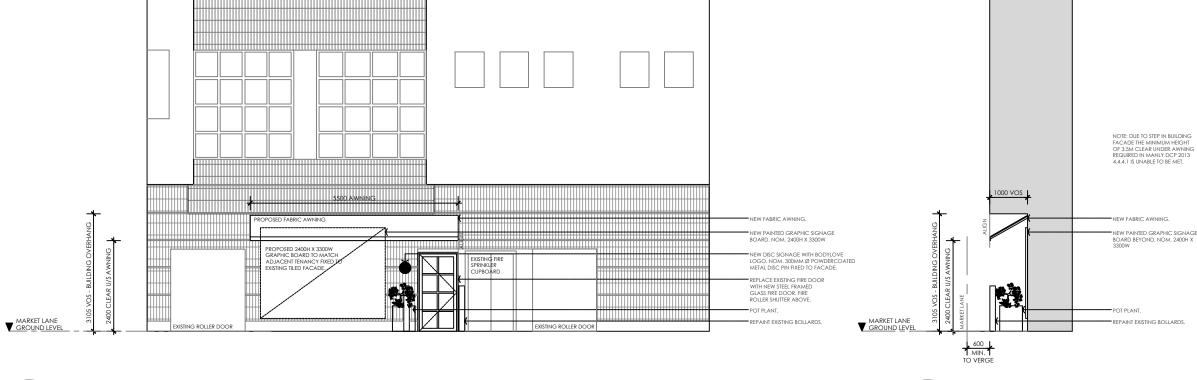
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DRAFT





01 PROPOSED ENTRY @ THE CORSO SCALE 1:100 ELEVATION

02 PROPOSED ENTRY @ MARKET LANE
SCALE 1:100
ELEVATION

03 PROPOSED ENTRY @ MARKET LANE SCALE 1:100 SECTION

DATE 17.12.24 DRAFT

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PROJECT BODYLOVE FITOUT MANLY, NSW

DEVELOPMENT

APPLICATION

DRAWING SIGNAGE ELEVATIONS - THE CORSO AND MARKET LANE FACADES

PROJECT NO. SCALE@A3 1:100

DWG NO. DA_A03 DRAFT

Appendix B – Noise Modelling



