

BCA - DDA/ACCESS COMPLIANCE REVIEW

Manly Corso Apartments Refurbishment

Hilrok Properties

ISSUE B

DATE 1ST MAY 2019

PROJECT 17349



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ISSUED	REVIEW	ISSUED BY
Date 1st May 2019	Issue B- Revised drawings included	Trevor Eveleigh
Date 15 th April 2019	Issue A	Trevor Eveleigh
Date. 5th April 2019	Draft Issue for Review	Trevor Eveleigh



1.0 INTRODUCTION

1.1 GENERAL

NBRS Architecture have been engaged by Hilrok Properties Pty Ltd to develop a design for the refurbishment and additions to the existing mixed use building at 19-23 The Corso, Manly

As part of the design process a review has been undertaken of the proposed design against current building regulations and to ensure that the design meets the appropriate building regulations for the provision of equitable access for occupants.

This report has been prepared to accompany the Development Application and sets out the outcome of the BCA /DDA Access review.

The review compares the proposed design, against the requirements set out in the following documents:

- The Building Code of Australia 2019 version (BCA2019) and
- The associated relevant standards
- Disability Access to Premises Buildings Standards 2010 (The Premises Standard)

It is noted that BCA 2019 takes effect on the 1st May and therefore the proposed works will be compared to the planed requirements of BCA2019.

The proposed design for the development is represented in the following plans prepared by NBRS Architecture which have been used as part of this review.

Table 1

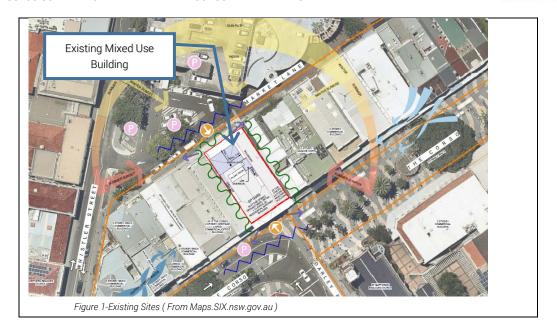
Drawing number	Issue	Drawing name	Date
17349-A-01	D	Site Context	4/18/2019
17349-A-02	D	Site Analysis and Roof Plan	4/18/2019
17349-A-03	D	Existing Floor Plans	4/18/2019
17349-A-04	D	Existing Floor Plans	4/18/2019
17349-A-05	D	Ground and First Floor Plan	4/18/2019
17349-A-06	D	Second and Third Floor Plan	4/18/2019
17349-A-07	D	Elevations	4/18/2019
17349-A-08	С	Elevations	4/18/2019
17349-A-09	С	Sections	4/18/2019

1.2 SITE DETAILS

The site for the existing mixed use building is 19 to 21 The Corso, Manly, NSW 2095.

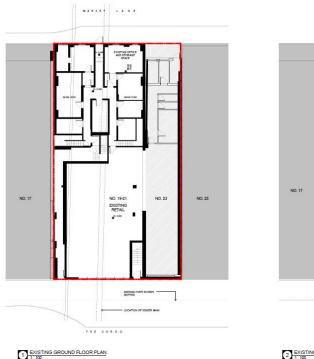
The existing site includes multiple strata lots within the Strata Plan SP 12989

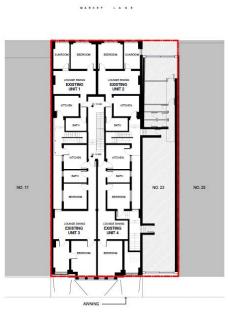
The site is within the Northern Beaches council area, which is Climate Zone 5.



1.3 THE EXISTING

The existing building includes 3 levels of apartments above a retail tenancy on the ground floor level. The existing building has three stairs connecting the upper levels, which are not of sufficient width and do not comply with current regulations.





2 EXISTING FIRST FLOOR PLAN

1.4 THE PROPOSAL

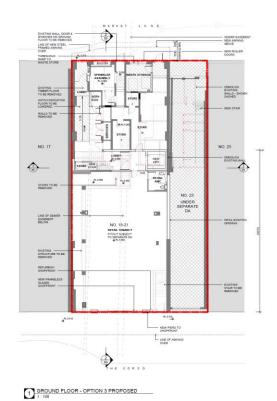
The proposal is to upgrade the existing building to:

- refurbish and update the existing apartments,
- include a new lift to access the upper levels



- construct a new compliant stair to serve the upper apartment levels, which is fire separated from the ground floor retail tenancy.
- constructing an additional apartment to the upper level existing terrace.
- Alter the layout of the existing ground floor level to provide
 - o a new fover and lift lobby space
 - o include fire separated egress from the new central stair.
 - Include waste and storage areas.
- Updating the fire services within the building, to include fire hydrants and Sprinkler protection. The proposed usage of the various levels of the building on completion of the works will be as follows;
- Table 2- Building Usage

Level	Use	Use Type
Ground	Retail tenancy	Class 6
Level	Back of house areas & Lift lobby for apartments	associated with Class 2 & 6
Level 1	Four existing apartment (SOU's)	Class 2
Level 2	Four existing apartment (SOU's)	Class 2
Level 3	Two existing apartment (SOU's)	Class 2
	One additional Apartment (SOU)	





2 FIRST FLOOR - PROPOSED

1.5 ACCESSABILITY UPGRADE STRATEGY

Currently the existing apartments are not accessible as they are on the upper floors and there is not a lift in the building. Additionally the configuration of the existing entry doors to the apartments on each level and the width of the doors, does not enable sufficient circulation space for the main entry doors to the Apartments to be considered to be accessible.

The proposed works includes a new shopfront façade to the Corso on the ground floor level, this will include a new entry door to the tenancy that is to be accessible, without a step at the threshold.

The proposed works are to upgrade the existing facilities within the apartments as well as improving access and egress to the apartments by the inclusion of the lift and new fire isolated stair.



On completion of the proposed works, access will be provided to the central corridor on each level, but will not enable access to and through the main entry to each of the existing apartments due to the restrictions of the existing building walls and doorways. The exception to this are existing units 5 & 6, where as part of the works the doors to the units will be relocated and therefore could be made to meet the accessibility requirements. Access will also be provided to the entry door of the new Apartment on the third floor level (Unit 11).

As the proposed works are refurbishment of existing apartments, it is considered to be appropriate for access to be provided to only the new apartment and potentially other existing apartments where feasible in the design.

1.6 BCA REQUIREMENTS

The Building Code of Australia (BCA) sets out number of Performance Requirements that a building solution must meet to achieve a reasonable level of safety, access to buildings, and functional performance.

Where due to the configuration within individual building or site applications, the detailed design does not meet the Deemed to Satisfy Provisions of the BCA, there is an opportunity for the design to be assessed as an Alternative Solution, against the Performance Requirements of the BCA.

Any alternative Performance Solutions will be subject to the approval of the Principal Certifying Authority.

The requirements for the building are based on the scale of the building, the number of occupants and the usage of the building.

1.7 BUILDING HEIGHT, RISE IN STOREYS & EFFECTIVE HEIGHT

The existing building has a rise in storeys of 4.

The existing effective height is 10.97m from ground floor level RL 6.06 to third floor level RL 17.03. As part of the proposed works to the ground floor level a new entry lobby will be created at approximately RL 5.6 which will change the effective height to approximately 11.43m.

2.0 BCA DEEMED TO SATISFY PROVISIONS

2.1 PART A – BUILDING CONSTRUCTION TYPE

With a rise in storeys of 4 the building is considered to be required to be of Type A construction.

Manly Corso Appartm	nents		17349	`
Hilrock		19-21 The Corso Manly	-	BCA 2019
Building Details / BCA Requirements				
Use Class		2 - Units		Key
				Fill in the details
Rise in Storeys	4	or more		BCA Requirements
Effective Height	less than 25m			
Building Floor Area	2000	M2		
Containing Atrium	No			
Place of Public Entertainment	No		Stage & Backstage Area	1- No Stage
Basement Car park	No	-		
	0			
Class 9B Building Specific use			Zone Maps	
	Zone	Sydney CBD Central Coast	NSW	\\Siza\admin\Reference Documents\BI
Building Location Zone	Zone 5	NSW	VIC	R:\Reference Documents\BCA\315 Cl

2.1.1 PART D3.1 – GENERAL ACCESS REQUIREMENTS

Under the BCA requirements in Part D3.1, an access pathway is required to areas depending upon the usage of the area as indicated in the table below, except as permitted by Clause D3.4.

Applying this requirement to the proposed works, access is required to all areas as indicated in the following table.

Table 3 Access Requirements

USAGE TYPE	BCA REQUIREMENTS(D3.1)	APPLICATION TO DESIGN	COMPLIANCE
COACLIIIL	DOA HEQUITEMENTO(DO. 1)	ALL EIGHTION TO DESIGN	OUM LIANDE



Class 2	From a pedestrian	Access to be provided to the	Yes
	entrance <u>required</u> to be <u>accessible</u> to	ground floor lift lobby.	\/
	at least 1 floor containing <i>sole</i> -	Lift required to provide access to	Yes
	occupancy units and to the entrance	at least 1 level of apartments	
	doorway of each sole-occupancy		
	<u>unit</u> located on that level.		
Class 2	To and within not less than 1 of each	Access to be provided to common	Access to
	type of room or space for use in	area of general Storage and Waste	be provided
	common by the residents, including a	storage.	
	cooking facility, sauna,		
	gymnasium, swimming pool, common		
	laundry, games room, individual shop,		
	eating area, or the like.		
Class 2	Where a ramp complying with <u>AS</u>	Access to be provided to entrance	Yes
	1428.1 or a passenger lift is	doorway of SOU's	To new
	installed-		SOU only
	 a) To the entrance doorway of 		
	each <i>sole-occupancy unit</i> ;		
	and		
	b) To and within rooms or		
	spaces for use in common		
	by the residents		
Class 6	To and within all areas normally used	Accessible pathway to be provided	
	by the occupants.	from street to and into the retail	
		tenancy.	

2.1.2 PART D3.2 GENERAL BUILDING ACCESS REQUIREMENTS

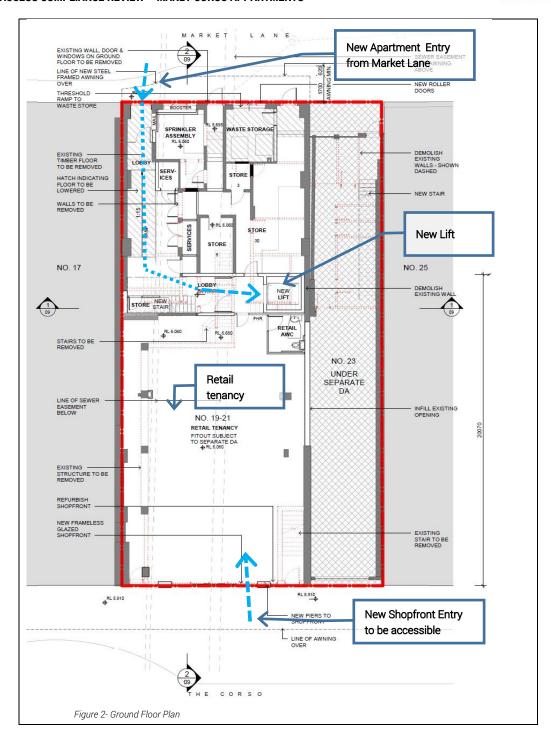
Part D3.2 of the BCA requires an accessible pathway to be provided from the main street frontage, at least 50% of all entries and the accessible parking space to the building.

Within the current design there are two entries to the building, being;

- the entry to the retail tenancy from The Corso street frontage
- The entry to the apartment lift lobby from the Market Lane street frontage.

Both entries are at grade and could be provided with an accessible entry, subject to the detailed design, therefore 100% of entries could be accessible and therefore the deign could meet the requirements of Clause D3.2

The following figure show the existing site entries and proposed building entries.



2.1.3 PART D3.3 PARTS OF BUILDING TO BE ACCESSIBLE.

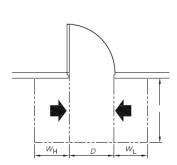
Under part D3.3 of the BCA, access is required to all areas normally used by the occupants and includes areas such as toilet facilities, meeting rooms and kitchens etc.

This applies to areas that are required to be accessible, which for this project is:

- Within the retail tenancy
- Within the shared communal space on the ground floor being the General Storage area and the Waste storage area.
- The main entry doors to Apartments on levels served by the lift.

Access paths, door widths and door clearances are to comply with AS1428.1 - 2009 The following criteria from As1428.1 sets out the requirements for providing access, that should be included within the detailed design:

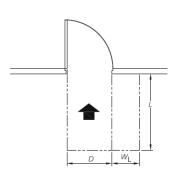
- All new doorways should be minimum 850mm clear (requires min. 920mm leaf doors)
- Provide side clearances to doors as per Figure 31 of AS1428.1 (refer below.)
- Provide lobbies with min 1450mm clear lengths to enable usability. (refer below)



Dimension D	Dimension L	Dimension W _H	Dimension W _L
850	1240	560	660
900	1210	510	660
950	1175	460	660
1000	1155	410	660

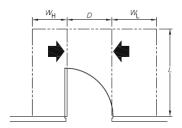
0 1155 410 660

(c) Either side approach, door opens away from user



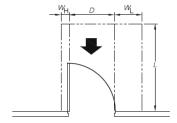
Dimension Dimension L		Dimension W _H	Dimension W _L	
850	1450	0	510	
900	1450	0	510	
950	1450	0	510	
1000	1450	0	510	

(d) Front approach, door opens away from user



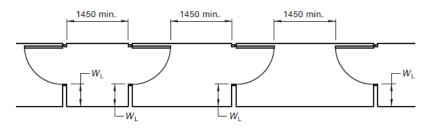
Dimension D	Dimension L	Dimension W _H	Dimension W _L
850	1670	660	900
900	1670	610	900
950	1670	560	900
1000	1670	510	900

(g) Either side approach, door opens towards user



Dimension D	Dimension L	Dimension WH	Dimension WL
850	1450	110	530
900	1450	110	530
950	1450	110	530
1000	1450	110	530

(h) Front approach, door opens towards user



(a) Continuous accessible path of travel

2.1.4 ACCESS PATHWAYS PROVIDED WITHIN THE DESIGN.

2.1.4.1 GENERAL

Within the design access is provided to all areas used by the occupants with the exception of the following:

2.1.4.1 RETAIL TENANCY AREA

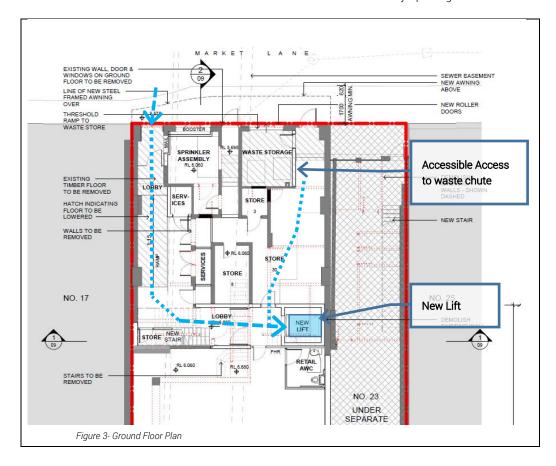
The proposed works includes adjustments to the ground floor retail tenancy and the installation of a new glass shopfront to the street frontage.

Subject to the detailed design of the shopfront an accessible path would be provided within the retail tenancy.

2.1.4.2 APARTMENT COMMON AREAS

The proposed common areas to the ground floor are to be provided with an accessible path to the lift and from the lift to the storage areas and to the waste area. The existing design includes a waste chute which is within an accessible area of the storage area.

New doors within this area are to have a minimum 850mm clear doorway opening width.



2.1.4.3 APARTMENTS

As identified within the Access strategy, as the proposed works are a refurbishment of the existing building, not all of the existing apartments will be provided with access to the main door of the apartment as set out within AS1428.1 and required by Clause D3.2, only the new apartment and the existing apartment Unit 5 & 6 will be provided with access to the entry door of the apartment.

2.1.5 LIFT

A lift is included within the design, to provide access between the various levels and floors of the Building, to meet the DTS requirements for an accessible pathway through the building.

The lift will travel less than 12m, therefore the lift car floor dimensions will need to be as set out in the following table.

Lift Requ	uirements	-								
Lift Travel distance Less than 12m			Depth	Width	Emerge	ncy Lift		Not Red	quired	
	Lift Required	Lift Car dimensions	1400mm	1100mm	Streatche	r Facilities	Requ	ired if effecti	ive height >	12m



2.1.6 ACCESSIBLE TOILET FACILITIES

The design includes new accessible facility to the ground floor retail tenancy as the only facility in the area, therefore meeting the requirements for the provision of accessible facilities. The detailed design of the toilet facility is to be in line with the details of AS1428.1;2009.

2.1.7 PART D3.5 CAR PARKING

Carparking is not provided on the existing site and no additional parking is proposed as part of the works, therefore no accessible parking is required.

2.1.8 PART D3.6 IDENTIFICATION OF ACCESSIBLE FACILITIES, SERVICE AND FEATURES

Part D3.6 requires signage complying with Specification D3.6 to be included within the building in, a number of locations to identify the following:

- All sanitary facilities
- Identification of exit (where exit signage is included.)
- Path of travel to the Lift if not evident from the main entry.

Signage is to be included as part of the detailed design to identify the path to the lift from the Market Lane frontage and the accessible we facilities.

2.1.9 PART D3.7 HEARING AUGMENTATION

Part D3.7 requires that where an amplification system within a meeting room of more than 100m² a hearing augmentation system is to be installed.

This does not apply to the proposed design.

2.1.10 PART D 3.8 TACTILE GROUND SURFACE INDICATORS

Part D3.8 of the BCA requires that tactile ground surface indicators (TGSI's) be installed at the top and bottom of open stairs and ramps to warn occupants of the associated hazard, where the area is to be accessible.

The detailed documented design is to include tactile indicators to the top and bottom of all stairs and ramps to meet the DTS requirements.

2.1.11 PART D3.9 WHEELCHAIR SEATING SPACES IN CLASS 9B ASSEMBLY BUILDINGS

Part D3.9 and table D3.9 sets out the requirements for the provision of seating spaces for wheel chairs where fixed seating is provided and requires that where there is up to 150 fixed seats at least 3 spaces for wheel chairs is provided.

This does not apply to the proposed works as the building is not a Class 9b building.



3.0 UNIVERSABLE /LIVABLE HOUSING DESIGN

3.1 INTRODUCTION

The NSW Department of Planning and Environment, Apartment Design guide sets out recommended design criteria for universal design within Objective 4Q-1 as set out below:

Objective 4Q-1	Developments achieve a benchmark of 20% of the total	
Universal design features are included in apartment design to promote flexible housing for all community members Design quidance	apartments incorporating the Livable Housing	

3.2 LIVABLE HOUSING DETAIL REQUIREMENTS

Applying this guide to the proposed project with 11 Units over the three floors, at least 2 units should be design to achieve the Silver Level Liveable Housing Design Guidelines.

The elements of the design to achieve this would be as follows:

Element	Performance Statement	Provided in the design
1 Dwelling Access	Provide a safe, continuous step free pathway from	Yes
	the front boundary of the property to an entry door	
	to the dwelling	
2. Dwelling Entrance	There is at least one level (step-free) entrance into	Yes to new unit 11 and
	the dwelling to enable home occupants to easily	existing unit 5 & 6
	enter and exit the dwelling.	
3. Internal Doors &	Internal doors and corridors facilitate comfortable	Yes to new Unit 11 only.
Corridors	and unimpeded movement between spaces.	
4. Toilet	The ground (or entry) level has a toilet to support	Yes to new Unit 11 only
5.01	easy access for home occupants and visitors.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
5. Shower	The bathroom and shower is designed for easy and	Yes to new Unit 11 only
C D : C	independent access for all home occupants. The bathroom and toilet walls are built to enable	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
6. Reinforcement of		Yes to new Unit 11 only
bathroom & toilet walls	grabrails to be safely and economically installed.	
7. Internal stairways	Where installed, stairways are designed to reduce	To apply to all proposed
	the likelihood of injury and also enable	stairs
O Mitalaan Caasa	safety pathway.	Recommended to all new
8. Kitchen Space	The kitchen space is designed to support ease of movement between fixed benches and to support	kitchens
	easy adaptation.	Ritchens
9. Laundry Space	The laundry space is designed to support ease of	Yes to new Unit 11 only
9. Lauriury Space	movement between fixed benches and to support	Yes to new orner in only
	easy adaptation.	
10. Ground (or entry	There is a space on the ground (or entry) level that	Yes to new Unit 11 only
level) bedroom space	can be used as a bedroom.	res to new orner i orny
11. Light switches and	Light switches and power points are located	Recommended for all
power points	at heights that are easy to reach for all	new points
perrer perrite	home occupants.	The reposition
12. Door and Tap	Home occupants are able to easily and	Recommended for all
Hardware	independently open and close doors and safely use	new hardware and taps
	tap hardware.	
13. Family/living room	The family/living room features clear space	Yes to new Unit 11 only
space	to enable the home occupant to move in and	,
,	around the room with ease.	
14. Window Sills	Windows sills are installed at a height that enables	Yes to new Unit 11 only
	home occupants to view the outdoor space from	
	either a seated or standing position.	
15. Flooring	Floor coverings are slip resistant to reduce the	Recommended for all
	likelihood of slips, trips and falls in the home.	new finishes

NBRSARCHITECTURE. ADVISORY

DDA / ACCESS COMPLIANCE REVIEW - MANLY CORSO APPARTMENTS

4.0 CONCLUSION & RECOMENDATIONS

Based on the review of the proposed design, as outlined in the assessment above, it is considered that the proposed design as indicated on the drawings generally will be able to meet the relevant Deemed to Satisfy Provisions of the Building Code of Australia 2019, subject to the detailed design.

Trevor Eveleigh

Studio Principal - Advisory **NBRS**ARCHITECTURE

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