





URBAN DESIGN REPORT

71-89 CHANDOS ST, ST LEONARDS 16 MARCH 2022

DISCLAIMER

Smart Design Studio (SDS) have been engaged to make amendments to the planning proposal for 71-89 Chandos St Originally prepared by Aplus Design Group.

SDS have amended the Urban Design Report, also originally prepared by Aplus Design Group, to reflect those changes to the Planning Proposal



Smart Design Studio acknowledges the Traditional Custodians of the land and pays respect to the Elders, past, present and future. We honour Australian Aboriginal and Torres Strait Islander peoples' primary cultural and spiritual relationship to place and their rich contribution to our society. To that end, all our work seeks to uphold that we care for Country, it will care for us.



-14 STOKES AVENUE ALEXANDRIA NSW 2015 TEL +61 2 8332 4333 NOM ARCH WILLIAM SMART 6381

Smart Design Studio have been engaged to amend the Planning Proposal initially prepared by Aplus Group for the development of 71-89 Chandos Street & 58-64 Atchison Street, St Leonards. SDS have Aammended the Urban Design Report, also originally prepared by Aplus group, to reflect changes to 7the Planning Proposal.

This report provides a detailed analysis of the surrounding context of the site. The proposed development references the parameters and guidelines such as setback controls, bulk and scale, height and FSR controls, established in St Leonards & Crows Nest 2036 plan.

C



PREAMBLE

_It has been modulated to achieve the levels of solar access required to the apartments contained

С The proposed built form achieves the spatial separation controls under the Apartment Design Guide. within the proposed developments.

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SHADOW ANALYSIS





G CONTEXT

NALYSIS



1.0 STRATEGIC PLANNING CONTEXT

ST LEONARDS AND CROWS NEST 2036 PLAN

ST LEONARDS AND CROWS NEST 2036 PLAN



SUBJECT SITE

St Leonards & Crows Nest Plan 2036

The Plan focuses on providing 16,500 additional jobs over the next 20 years, to reinforce greener spaces, create a vibrant community which is accessible for pedestrians and cyclists and well designed. This all has resulted in a change in development heights and a clear direction on how to design both St Leonards and Crows Nest.

As a vibrant community that caters for the needs of people of all ages, the St Leonards and Crows Nest area will have a diverse range of homes supported by open spaces, community services, cafes, restaurants and unique local retail experiences.

The village atmosphere of Crows Nest will be retained, with Willoughby Road continuing to be a vibrant high street that is valued by the community and an escape from the hustle and bustle of modern life. A connection to the past will be maintained by protecting heritage conservation areas in Naremburn and Holtermann Estate, celebrating the historic character of the area.

St Leonards Core will be revitalised through a balance of commercial and residential development, providing lively and active streets, safe and interesting laneways for people, and sunny tree-lined public spaces. The best bits of the surrounding leafy neighbourhoods that locals love will be brought into the heart of St Leonards for residents, workers and visitors to enjoy.





2.0 SITE ANALYSIS

Subject Site



Train Station	Major Road Network	Hospital	Shopping	Open Spaces	Willoughbv Rd: Eat Street
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SITE CONTEXT





development.

SITE LOCATION

71 - 89 Atchison St

SITE IDENTIFICATION

The subject site 71-89 Chandos Street, St Leonards is located at the north eastern periphery of a major commercial center in Sydney Metropolitan Area identified as a Strategic Center under the relevant regional and subregional strategies. The site is located in St Leonards center and is in a well serviced area suitable for a greater intensity of







TOPOGRAPHY

The subject site 71-89 Chandos St sits at the intersection of Chandos St, Oxley St and Atchison Lane. The site slopes down from west to east with a significant drop from 88m to 83m of approximately 5 meters.

The Hume Street Park and the eastern side of the subject site are both located on the same RL of 84m. This allows the opportunity of creating accessible connectivity between both Hume Street Park and the proposed linear park along Oxley St. Due to approx flat topography along Oxley St, there is an opportunity to strengthen this linear park connection.

LOCAL CONTEXT AND STREET NETWORK



Subject Site

The subject site is located within St Leonards and Crows Nest Station Character Area, which falls into the North Sydney Council Municipal area characterised by high, mixed use densities with strong commercial focus and range of community infrastructure such as community arts, entertainment, galleries and retail.

The St Leonards railway station is approximately 400m away from the main site entry. The main bus exchange is also located in the same area. The metro line is within the town centre precinct and located south west from Hume Street Park.

There are two main road networks parallel to Chandos Street which are Atchison Street and Albany Street. Both are conveniently accessible for the subject site. The planned Crows Nest Metro Station, located to the south of the town centre, connecting St Leonards to the greater Sydney region is situated in Crows Nest Residential Area. New Metro rail access will improve accessibility and connectivity to local schools, businesses and Crows Nest Village. The Metro will provide services that connect to Central Station (11 min) and Sydney Metro's Martin Place Station (7 min).

Two local parks, namely Hume Street Park and Christie St Reserve are located within 400m walking distance from the subject site.

The proposal provides a through site link connecting Chandos St and Atchison Lane on the western boundary of the subject site The proposed through site link will provide additional permeability and access throughout the neigbourhood.



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St Leonards Station Bus Interchange

PUBLIC OPEN SPACES AND PEDESTRIAN LINKS

Subject Site



St Leonards is a high population density area with a low provision of parks and open spaces. There are number of primary pedestrian desire lines throughout the precinct, which could provide the connection to key attractions including the Christie Street Reserve, Mitchell Street Plaza, Hume Street Park, and Crows Nest Village along Willoughby Road. Pedestrian through site links throughout the precinct are very important as majority of east-west street blocks average around 150m in length.

With majority of through site links being north-south connections the proposal provides a through site link connecting Atchison Lane and Chandos St. The proposed through site link will provide additional permeability and access throughout the neighborhood. Opening up the site will also allow provision for a new north-facing public space which will achieve great sun access during the middle of the day.

St Leonards Railway Station connects to the northern end of Willoughby Road via footpaths along Chandos St and Atchison St. The trip length is approximately 600m with limited points of interest and no public open spaces along the way. The proposed through site link will provide a landscaped public space acting as a point of interest to break this pedestrian journey.



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St Leonards Station
 Bus Interchange

PEDESTRIAN ENVIRONMENT



Subject Site

from high traffic volumes and noise experienced along the Pacific Highway.

Active street frontages in St Leonards generally run in the east-west direction. Some parts of the north- south street including parts of Willoughby Road, Pacific Highway also contains active street frontages.

It is important for the subject site to continue the prevailing active street frontage pattern particularly along Chandos Street to promote pedestrian traffic and draw activity along the streets.

Most footpaths are of standard width and tree-lined. The footpaths along Oxley Street and the southern sides of Chandos Street and Atchison Street (near Oxley Street) enjoy good solar access.

Some landscaped building frontages are well established along a segment of the southern side of Chandos Street in lieu of awnings. Oxley Street has a 5m wide landscaped zone from Chandos Street to Albany Lane which has the potential to create a well landscaped pedestrian boulevard. Atchison Lane and Albany Lane mainly serve vehicle access. Both of them are hard-edged with sporadic provision of footpaths. There is minimal solar access to both lanes.



_ smart design studio The pedestrian environment within the subject site 71-89 Chandos Street is relatively free

IIIII Planned Links Indicative Laneways Grassed Open Space Paved Open Space



Subject Site



The Pacific Highway, as a part of state road network, accommodates very high traffic volumes. The streets within the local area to the east of Pacific Highway carry much less traffic while some streets and lanes, such as Atchison Lane and Albany Lane, carry a very low volume of traffic.

The site has good road access, with three frontages along Chandos Street, Oxley Street and Atchison Lane. Chandos Street is a collector road in St Leonards on the northern boundary of the site. It is a street that runs east- west with connections to St Leonards Station to the west as well as Christie Street and the Pacific Highway.

Willoughby to the north.

Atchison Street is a local road which provides east-west connections to St Leonards Centre and Crows Nest. Atchison Lane runs parallel to the subject site, which is mostly used for servicing and access to basement car parking.

Based on existing servicing, with basement car park entries located along Atchison Lane an opportunity exists to provide access to the site via Atchison Lane, which will reduce vehicular activity along Chandos and Atchison Streets and create a safer pedestrian environment along these streets.





TRAFFIC ENVIRONMENT

Oxley Street is located on the eastern edge of the site. Oxley Street is a local northsouth road providing connections from Crows Nest in the south-east to St Leonards

> St Leonards Station Bus Interchange

OPPORTUNITIES ANALYSIS



Opportunities

1. St Leonards CBD offers a mix of some of Sydney's oldest and most respected institutions with innovative small business and a young, well-educated community. It is the sixth largest employment centre in Sydney and the third largest north of the harbour. Close to the North Sydney CBD, it is in easy reach of Chatswood, the Sydney CBD and Macquarie Park

2. The site is located on the edge of the CBD facing North, benefiting from the change of scale from the large scale mixed use developments to the adjoining low scaled residential area, providing extensive district views.

3. The transformation of the Site recognizes the opportunity to provide new homes, mixed use activities, retail' and create new places and a laneway all with easy access to existing and planned public transport

Bus Interchange.

5. Close to Royal North Shore Hospital and other health and education-related activities.

6. Improved critical circulation links and pedestrian amenities.

7. Potential for new linear parks.

8. Potential for lane way activation and new through site links providing better site permeability and activation threshold.

9. Access to existing open space.

10. Potential for street front activation.

____ smart design studio 4. The site is very well serviced by public transport and is in close proximity (within 400m) to public transport hubs including St Leonards Train Station, Metro Station and

NORTH SYDNEY PLANNING STUDY 2015 PED. LINKS + LINEAR PARK



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SUBJECT SITE

SURROUNDING DEVELOPMENTS









3.0 SETBACK ANALYSIS



SETBACKS:

71-89 Chandos St

Chandos St

- 3m setback upto 4 storey street wall
- 3m above podium setback

Atchison Ln

- 1.5m setback upto 4 storey podium
- 4m above podium setback

Oxley St

- 5m street setback
- 7m Above podium setback

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SETBACK ANALYSIS



4.0 ADG SEPARATION ANALYSIS

CHANDOS STREET

L2.03

L2.04

L2.02

L2.01





Minimum separation distances for buildings are:

Up to four storeys (approximately 12m):

- 12m between habitable rooms/balconies •
- 6m between non-habitable rooms



LEVEL 02 FLOOR PLAN

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BUILDING SEPARATION : UP TO FOUR STOREYS

Part 2F: Conditions in Setting Building Separation Controls

• 9m between habitable and non-habitable rooms

BUILDING SEPARATION : FIVE TO EIGHT STOREYS

CHANDOS STREET



Apartment Design Guide 2015

Five to eight storeys (approximately 25m):

- 18m between habitable rooms/balconies
- 9m between non-habitable rooms

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Part 2F: Conditions in Setting Building Separation Controls

• 12m between habitable and non-habitable rooms

CHANDOS STREET

L8.02

L8.01

L8.03 Apartment Design Guide 2015 4x2B 135+14BALC <u>*</u> 12M SETBAC Nine storeys and above (over 25m):

- 24m between habitable rooms/balconies
- 12m between non-habitable rooms





BUILDING SEPARATION : NINE STOREYS AND ABOVE

Part 2F: Conditions in Setting Building Separation Controls

• 18m between habitable and non-habitable rooms





5.0 SHADOW ANALYSIS





JUNE 21 PROPOSED - 0900







4 JUNE 21 PROPOSED - 1200

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SHADOW ANALYSIS : 21ST JUNE

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LEGEND







1 JUNE 21 PROPOSED - 1300



3 JUNE 21 PROPOSED - 1500



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SHADOW ANALYSIS : 21ST JUNE

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PROJECT	CHANDO)S 71-89	DWG TITLE	ow d	IAGRAMS - 21st JUNE	
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PROPOSED BUILDING SHADOW OUTLINE ----- SITE BOUNDARY SHADOW ADDITION SHADOW REDUCTION OXLEY LINEAR STREET PARK

LEGEND





2 MARCH 21 PROPOSED - 1200





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SHADOW ANALYSIS : 21ST MARCH

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PROJECT	CHANDO)S 71-89	DWG TITLE	OW DIAGRAMS - 20t	h MARCH
drawn AW	SENIOR QA	APP'D HS	DWG NO	B B	











3 SEPT 21 PROPOSED - 1500

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SHADOW ANALYSIS : 21ST SEPTEMBER

			ISSUE A	REASON ISSUE FOR PP	DATE 16/03/202 2
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PROJECT	CHANDO	DS 71-89	DWG TITLE	OW DIAGRAMS- 22	nd SEPT
drawn AW	SENIOR QA	APP'D HS	DWG NO	4 B	

SHADOW ANALYSIS : ATCHINSON LANE LINEAR PARK









 Image: State of the second st



			ISSUE	REASON		DATE
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			В	AMMENE	999	2 07/07/202 2
PROJECT	CHANDO	OS 71-89	DWG TITLE	INSO	N LANE SHADOW STUDY	,
drawn	SENIOR QA	APP'D HS	DWG NO	5	REV B	

SHADOW ANALYSIS : ATCHINSON LANE LINEAR PARK



1 ATCHINSON LANE JUNE 21, 15.00

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SHADOW ANALYSIS : ATCHINSON LANE LINEAR PARK







4 ATCHINSON LANE MARCH 20, 12.00



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			ISSUE	REASON	DATE
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SHADOW ANALYSIS : OXLEY STREET LINEAR PARK







3 OXLEY ST JUNE 21, 11.00

0XLEY ST JUNE 21, 09.00



2 OXLEY ST JUNE 21, 10.00





7 OXLEY ST JUNE 21, 15.00



5 OXLEY ST JUNE 21, 13.00

6 OXLEY ST JUNE 21, 14.00



10 OXLEY ST MARCH 20, 09.00



11 OXLEY ST MARCH 20, 12.00



12 OXLEY ST MARCH 20, 15.00







14 OXLEY ST SEPTEMBER 22, 09.00

15 OXLEY ST SEPTEMBER 22, 12.00

16 OXLEY ST SEPTEMBER 22, 15.00

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4 OXLEY ST JUNE 21, 12.00

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6.0 ADG COMPLIANCE

Note: Objectives and Criteria not relevant to a Planning Proposal level application have been omitted.

OBJECTIVE	DESIGN CRITERIA	PROPOSED

Part 3 Siting the Development

Communal and Public Open Space	Objective 3D-1 An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping	 Communal open space the site (see figure 3D.3) Developments achieve a the principal usable part minimum of 2 hours bet winter) 	Communal open space is prov Oxley Streets as well as on the provided is 640m2 (26%) The development achieves a m usable part of the communal o (mid-winter).			
	Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy	Separation between window visual privacy is achieved. M from buildings to the side ar	re ces	The proposal achieves the min separation distances.		
Visual Privacy	Note: Separation distances between buildings on the same site should combine required building separations depending on the type of room	Building Height	Habitable rooms and balconies	Non-habitable rooms		
		Up to 12m (4 storeys)	6m	3m		
		Up to 25m (5-8 storeys)	9m	4.5m		
		Over 25m (9+ storeys)	12m	6m		
			1	1		

Part 4 – Designing the Building

Solar and Daylight Access	Objective 4A-1 To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space	1. Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas	78% achieve 2 hours direct sunlight at this time.	~
		2. In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at mid-winter	N/A	N/A
		3. A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid-winter	8% receive no direct sunlight at this time.	\checkmark



	COMPLIANCE
wided within the public domain along Chandos & ne rooftop of 71-89 Chandos St. The total area	~
minimum of 50% direct sunlight to the principal open space between 12pm - 3 pm on 21 June	
inimum or greater than the minimum required	•

Note: Objectives and Criteria not relevant to a Planning Proposal level application have been omitted.

OBJECTIVE	DESIGN CRITERIA			PROPOSED	COMPLIANCE
Objective 4B-1 All habitable rooms are naturally ventilated				All habitable rooms are naturally ventilated.	~
Objective 4B-2 The layout and design of single aspect apartments maximises natural ventilation				All single aspect apartments are laid out to ensure natural ventilation is maximised. Habitable rooms are located along facades with large windows or doors facing accessible balconies. Building indentations are wide to allow effective air circulation but not at the expense of occupant privacy. Apartment depths are limited to assist in good natural ventilation.	✓
Objective 4B-3 The number of apartments with natural cross	 1. At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. s Apartments at ten storeys or greater are deemed to be cross ventilated only if any application of the balancies at these levels. 			60% of all apartments are naturally cross ventilated in the first nine storeys of the building. All habitable rooms are located along the building façade with large windows and doors to the perimeter. Apartment depths are limited to assist in good natural ventilation.	✓
environment for residents	allows adequate natural ventilation and cannot be fully enclosed				
	2. Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line			N/A	N/A
bjective 4C-1 Ceiling height achieves sufficient natural Measured from minimum ceiling		asured from finished floor level to finished ceiling level, imum ceiling heights are:		All proposed apartment ceiling heights comply with the Design Criteria.	~
	Minimum ceiling height for apartment and mixed-use buildings				
	Habitable Rooms 2.7m				
	Non-Habitable	2.4m			
	If located in mixed use areas	f located in mixed3.3m for ground and first floor to promoteuse areasfuture flexibility of use			
	 Apartments are required to have the following minimum internal areas: 		have the following minimum	All apartments exceed the minimum internal areas specified.	~
Objective 4D-1 The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity	Apartment Types		Minimum Internal Area		
	Studio		35m ³		
	1 bedroom		50m ³		
	2 bedroom		70m ³		
	3 bedroom		90m ³		
	The minimum internal areas include only one bathroom. Additional bathrooms increase the minimum internal area by 5m ² each. A fourth bedroom and further additional bedrooms increase the minimum internal area by 12m ² each.		lude only one bathroom. he minimum internal area by 5m ² Iditional bedrooms increase the each.		
	OBJECTIVE Objective 4B-1 All habitable rooms are naturally ventilated Objective 4B-2 The layout and design of single aspect apartm Objective 4B-3 The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents Objective 4C-1 Ceiling height achieves sufficient natural ventilation and daylight access Objective 4C-1 Ceiling height achieves sufficient natural ventilation and daylight access Objective 4D-1 The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity	OBJECTIVE DESIGN CRITERIA Objective 4B-1 All habitable rooms are naturally ventilated Image: Comparison of the second s	OBJECTIVE DESIGN CRITERIA Objective 4B-1 All habitable rooms are naturally ventilated	OBJECTIVE DESIGN CRITERIA Objective 4B-1 All habitable rooms are naturally ventilated	Objective 40-1 All habitable rooms are naturally confident. All habitable rooms are naturally confidence. All habitable rooms are naturally confidence. Objective 40-2 The lagout and design of single aspect apartments maximises natural ventilation. All single apact ager times are laid out to use under under entilation is maximised. Habitable rooms are cataled along tracks with the gene on those of our design of single aspect apart times. All single apact ager times are laid out to use under under entitience in maximised. Habitable rooms are cataled along tracks with the gene on those of our design of single apact ager times. All single apact ager times are laid out to use under under along tracks with the gene on those of the building. Objective 40-3 The number of ager times is with induced uses. I At least 60% of opertments are naturally cross ventilated in the first rune adores to the perimeter. Agartment degrees are isolated to the under and the site rune adores to the perimeter. Agartment degrees are isolated to the under adore to the under a catale and the under adore to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the perimeter. Agartment degree adore to the solated to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the perimeter. Agartment degree adore to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the perimeter. Agartment degrees are isolated to the under adore to the under adore to the under addres to the cate addres to the perimeter. Agartment degrees are isolated to the under addres to the perimeter. Agartment addres addres to the perimeter. Agartment a

Note: Objectives and Criteria not relevant to a Planning Proposal level application have been omitted.

	OBJECTIVE				PROPOSED	COMPLIANCE
		 Every habitable r with a total minir floor area of the from other rooms 	oom must have a wind num glass area of not room. Daylight and air s	ow in an external wall less than 10% of the may not be borrowed	All habitable rooms have a window to an external wall with a total minimum glass area greater than 10% of the floor area of the room. No daylight or air is borrowed from other rooms.	~
		1. Habitable room depths are limited to a maximum of 2.5 x the ceiling height.			Proposed habitable room depths comply to the Design Criteria.	\checkmark
	Objective 4D-2 Environmental performance of the apartment is maximised	t 2. In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window			The majority of apartments achieve the numerical Design Criteria of Objective 4D-2.2 whilst all apartments are designed to achieve the overall objectives. Apartments typically have open plan living spaces with a maximum room depth of 8m measured from the nearest window to the front of the rear kitchen joinery.	✓
	Objective 4D-3 Apartment layouts are designed to accommodate a variety of household activities and needs	1. Master bedrooms have a minimum area of 10m ² and other bedrooms 9m ² (excluding wardrobe space)			All master bedrooms have a minimum area of more than 10m2, with generous additional robe allowances, with other bedrooms typically 9m2 or more.	√
		2. Bedrooms have a minimum dimension of 3m (excluding wardrobe space)			All bedrooms have a minimum dimension of 3m excluding wardrobe space.	✓
		 3. Living rooms or combined living/dining rooms have a minimum width of: 3.6m for studio and 1 bedroom apartments 4m for 2 and 3 bedroom apartments 			Proposed living rooms or combined living/ dining rooms comply with the Design Criteria and are planned to be easily furnished with desirable and useable layouts.	✓
		4. The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts			N/A	N/A
	Objective 4E-1 Apartments provide appropriately sized	1. All apartments are required to have primary balconies as follows:			All apartments have minimum useable depths or greater than the numerical figures under objective 4E-1. All apartments have minimum balcony areas	✓
		Dwelling type	Minimum Area	Minimum Depth	greater than the numerical figures under objective 4E-1. All proposed balconies	
		Studio	4m ²	-	interior habitable spaces for seamless indoor-outdoor living.	
		1 bedroom	8 m ²	2		
Private Open		2 bedroom	10 m ²	2m		
		3+ bedroom	12 m²	2.4m		
Balconies	private open space and balconies to enhance residential	The minimum balcon balcony area is 1m	y depth to be counted a	as contributing to the	N/A	N/A

Note: Objectives and Criteria not relevant to a Planning Proposal level application have been omitted.

	OBJECTIVE	DESIGN CRITERIA	PROPOSED
Common Circulation and Spaces	Objective 4F-1 Common circulation spaces achieve good amenity and properly service the number of apartments	1. The maximum number of apartments off a circulation core on a single level is eight	The maximum number of eight a level is only exceeded on levels considered acceptable as it is be circulation core on a single leve achieved. Apartments per core a L 2 9 L3-4 8 L5-6 9 L7 5 L8-11 4 Good daylighting and natural ver circulation spaces. The central of ends and is designed to be natural
		2. For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40	Two (2) lifts have been provided



	COMPLIANCE
ht apartments off a circulation core on a single els 5 & 6, with nine apartments proposed. This is a below the maximum of 12 apartments off a evel, where Design Criteria 1 of 8 cannot be re are as follows:	✓
ventilation are proposed for all common al circulation corridor is naturally lit from both aturally ventilated on Levels 4-11.	
ed for 68 apartments.	✓



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URBAN DESIGN REPORT

71-89 CHANDOS ST, ST LEONARDS 16 MARCH 2022