Appendix B – Assessment of the Apartment Design Guide (ADG)

C-Is the development consistent with the Design Criteria? Y-Yes G-Is the development consistent with the Design N-No

Guideline?

O – Is the development consistent with the Objective? N/A or - – Not applicable

ADG Reference	Clause	Design Criteria	С	G	0
Part 3 Siting the [Developme	ent ent			
3A Site Analysis	3A-1	A site analysis is prepared; refer to Sheet A02, prepared by Archidrome Architects	-	Υ	Υ
3B Orientation	3B-1	The location of the RFBs are situated so as to maximise solar access to surrounding sites and public areas.	-	Υ	Υ
	3B-2	The location of the RFBs will not excessively overshadow allotments within the proposed subdivision and allotments within the adjoining site (i.e. formerly 41 Warriewood Road).	-	Υ	Υ
3C Public domain interface	3C-1	Terrace apartments would provide direct ground-level access to the central communal areas. Balconies and internal living areas will overlook central areas.	-	Υ	Υ
	3C-2	The RFBs will not directly adjoin either road frontage, through their appearance would be softened from surrounding areas by strategic planting and landscaping around the site.	-	Υ	Υ
3D Communal and public open space	3D-1	Required communal open space: Minimum 25% of the site area (1,762m², based on the super lot area of 7,048m²) Proposed communal open space: 1,359m², or 19.3% (inclusive of minimum dimensions) Whilst the proposed does not provide a minimum 25% of communal open space, the space would consist of well designed, easily identifiable and predominately landscaped areas. The communal space is to be entirely located at ground level, will contain large deep soil areas and a range of amenities (including expansive landscaped areas, a swimming pool, outdoor seating and BBQ areas).			
		Further, the majority (i.e. 20 of the 34 units) would contain landscaped private open space areas that are well in excess of minimum requirements (refer to the individual assessments below). The site layout therefore enhances residential amenity and provides ample opportunities for residential recreation opportunities within well-designed landscaped areas. As such, the proposal would satisfy the objectives and relevant design guidance requirements, therefore the variation would be supportable. Council is also reminded that with regard to Planning Circular PS 17-001, where the objectives and design guidance requirements of the ADG are met, the design criteria is not to be treated as a strict set of development standards.	N	Y	Y

		principal usable part of between 9 am and 3 per Proposed: More than 5	the communal open sp m on 21 June 0% of the communal op	of 50% direct sunlight to the ace for a minimum of 2 hour en space receives direct sola submitted shadow plans).	5	Y	Y
	3D-2			utdoor seating, BBQ facilities	_	Υ	Υ
	3D-3			ole a wide range of activities ocated and will be capable o		.,	
	2D 4	being observed from the	ne living areas of most a	apartments.	-	Y	Y
3E Deep soil	3D-4 3E-1	Required: Deen soil 7	ones are to he at leas	st 7% of the site area, with	- 1	-	-
zones	32.1	minimum dimensions o		sed on a site area of 7,004m ²		Y	Y
3F Visual privacy	3F-1		equired separation dista	ances from buildings to side	<u>.</u>		
		Building Height	Habitable rooms and balconies	Non-habitable rooms			
		Up to 12m (4	6m	3m			
		storeys) Up to 25m (5-8	9m	4.5m			
		over 25m (9+ storeys)	12m	6m			
		the PLEP 2014, they w		cally exceed 12 metres unde netres if measured from the erefore been adopted.			
		Northwest bouNortheast bouSouthwest bou	ndary: 11 metres Indary: 9.1 metres ndary: Minimum 4 metr Indary: Minimum 8 met		N	Y	Υ
		• Internal separa	ition: 24.4 metres				
		requirements. The on boundary and would af of the Unit C17 balco	ly points of noncomplish fect Unit D10, the south my and the balconies of istance to the boundaries	nificantly exceed minimun ance occur on the northeas neast section of Unit C10, par of Units D16 and D17. The es from Blocks C and D will be	t t		
		to adjoin the northeast by the RFBs. With re amenity and privacy of following:	boundary of the super egard to visual privacy, of the Torrens lost to t	Title allotments (Torrens lots lot will not be overshadowed the RFBs will maintain the he north with regard to the pare to be oriented toward.	e e		
		looking toward windows. The northern because the second s	ds the northeast would boundaries of the balco	ly windows from these unit be bedroom and bathroom onies for Units C17, D16 and mm wide landscaped areas	n H		

		Planting within these will prevent views towards the northeast. The planters will also screen any views of living areas towards the northeast and the Torrens lots. • The Torrens lots to the northeast will be of a substantial size, and will enable flexibility with regard to the placement of future building footprints (and noting that the DCP requires that future dwellings be set back at least 6 metres from the boundary), substantial separation distances will therefore be provided between the RFBs and any future dwellings to the north. • Due to the slope of the site, future dwellings on the Torrens lots are to be located at a higher ground level (i.e. the RFBs would not look down onto future dwellings). • The rear setbacks of the Torrens lots will be required to contain large/mature trees and vegetation (and noting that northern parts of the super lot are also landscaped). As such, the privacy and amenity of the allotments to the northeast will be maintained, and the objectives and design guidance requirements will be satisfied, and the variation is therefore supportable.			
	3F-2	Apartments and private open space will would be separated from communal areas utilising landscaping and internal fences.	-	Υ	Υ
3G Pedestrian access and entries	3G-1	The super lot does not directly address public areas, however building entrances will be both clearly identifiable and directly face onto communal areas within the centre of the site.	-	Υ	Υ
	3G-2	Lobby entrances form clearly identified features within the building facades.	-	Υ	Υ
	3G-3	A direct pedestrian link is to be provided between Warriewood Road and Lorikeet Grove for residents of the site. Clear sightlines will be provided, and will traverse the communal area within the centre of the site and will be located in active areas overlooked by habitable areas.	-	Υ	Υ
3H Vehicle access	3H-1	The carpark entry would be both located at the lowest part of the RFB development and will be screened from the public domain by the Torrens allotments that will front Lorikeet Grove. The garbage collection point will also be screened by internal fencing. Pedestrian and vehicular access would be clearly identifiable, and will contain sufficient sight lines.	-	Υ	Υ
3J Bicycle and car parking	3J-1	 Required: For development: On sites within 80m of a railway station or light rail stop in the Sydney Metropolitan Area, or Sites within 400m of B3 or B4 zoned land or equivalent in a nominated regional centre, The minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by Council, whichever is less. The car parking must be provided off-street. Proposed parking: 68 residential spaces 13 visitor spaces Refer to the assessment of the DCP for further information. 	-	Υ	Y
	3J-2	Bicycle parking is proposed (noting that additional spaces are to be located within the garages for terrace apartments for such parking). Parking would be secured via security door at the carpark entrance, in addition to garage doors for individual basement garages.	-	Υ	Υ
	3J-3	doors for individual basement garages.	-	Υ	Υ

	3J-4	The basement carpark is to be integrated into the purposed groundworks (i.e. excavation would be minimised due to the raising of ground levels) on/around the development. The carpark till threfore not protrude more than one metre above finished ground levels.	-	Υ	Υ
	3J-5		-	-	-
	3J-6		-	-	-
Part 4 Designing t	he Buildin	g			
4A Solar and		Required:			
daylight access		 Living room and Private Open Space areas within at least 70% of all apartments must receive at least 2 hours of direct sunlight between 9am and 3pm in mid-winter. Proposed: The internal solar access plans indicate that 28 of the 34 (i.e. 82.4% of proposed apartments) will receive at least 2 hours of direct solar access 	Υ	Υ	Υ
	4A-1	on June 21.			
		 Required: A maximum of 15% of apartments receive no direct sunlight between 9am and 3pm in mid-winter. Proposed: All (i.e. 100%) of apartments will receive direct solar access on June 21, noting that skylights would provide secondary solar access to living and/or private open space areas of apartments oriented towards the southeast (i.e. Units C11, C12, C14, D11, D12 and D14. 	Υ	Υ	Y
	4A-2	Opportunities for solar access are maximised where possible.	-	Υ	Υ
	4A-3		-	Υ	Υ
4B Natural	4B-1		-	Υ	Υ
ventilation	4B-2		-	Υ	Υ
	4B-3	Required: At least 60% of all apartments are naturally cross ventilated. Proposed: All (i.e. 100%) of the proposed apartments are be capable of cross-ventilation.	Υ	Υ	Υ
		Required: Cross-over/through not to exceed 18m Proposed: Maximum 17.3m for cross-through apartments.	Υ	Υ	Υ
4C Ceiling heights	4C-1	Required: Minimum ceiling height for a habitable room is 2.7m Minimum ceiling height for a non-habitable room is 2.4m Proposed: Habitable rooms: Minimum 2.7m ceiling heights proposed Non-habitable rooms: Minimum 2.4m ceiling heights proposed	Υ	Υ	Υ
	4C-2		-	Υ	Υ
	4C-3		-	Υ	Υ

4D Apartment
size and layout

Apartments are required to have the following minimum internal areas:

Apartment Type	Minimum Internal Area
Studio	35m ²
1 Bedroom	50m ²
2 Bedroom	70m ²
3 Bedroom	90m ²

Additional requirements:

- These calculations only provide for 1 bathroom, and 5m² is to be added for each additional bathroom.
- A fourth bedroom and further additional bedrooms are to increase the internal floor area by 12m²

Proposed development:

U – Unit No.

R – Required floor area (m²)

B – No. of bedrooms

P - Proposed floor area (m²)

+ - Additional bathroom

U	В	R	Р	U	В	R	Р
C1	4+	112	206.25	D1	4+	112	206.25
C2	4+	112	206.25	D2	4+	112	206.25
C3	4+	112	206.25	D3	4+	112	206.25
C4	4+	112	206.25	D4	4+	112	206.25
C5	4+	112	206.25	D5	4+	112	206.25
C6	4+	112	206.25	D6	4+	112	206.25
C7	4+	112	206.25	D7	4+	112	206.25
C8	4+	112	206.25	D8	4+	112	206.25
C9	4+	112	206.25	D9	4+	112	206.25
C10	4+	112	167.5	D10	4+	112	197.54
C11	3+	95	129.8	D11	3+	95	120
C12	3+	95	129	D12	3+	95	121
C13	3+	95	125.3	D13	3+	95	125
C14	3+	95	121.9	D14	3+	95	122
C15	3+	95	123.1	D15	3+	95	123.6
C16	3+	95	122	D16	3+	95	129.8
C17	3+	95	123	D17	3+	95	129.8

As indicated above, all units would comply with minimum size requirements.

Required:

Every habitable room must have a window in an external wall with a total minimum glass area of not less than 10% of the floor area of the room. Daylight and air may not be borrowed from other rooms.

Required:

Habitable room depths are limited to a maximum of 2.5 x ceiling height.

Required:

In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window.

4D-2

4D-1

The depths of living areas within some ground floor units (i.e. C2-9 and D2-9) are 8.3m from a window. Whilst the numerical requirement is not reached for some apartments, areas beyond 8m would include the rear of the kitchen and dining rooms, therefore the overall impact on these living spaces would be negligible. Further, all living areas will have minimum 2.7m celling heights and would address an external window/elevation, thereby satisfying applicable design objectives and guidance. As such, these small variations are be supportable.

		Require Master l		oms have	a minimu	m area (of 10m	² and oth	ner bedrooms 9n	n²	Υ	Υ	Υ
		(excludii	ng war	drobes).									
		Require	d:								V	\/	V
		Bedroor	ns hav	e a minin	num dime	nsion of	3m (ex	cluding v	wardrobes).		Y	Υ	Υ
	4D-3	Require	d:										
		Living ro	oms o	r combir	ned living/o	dining ro	oms h	ave a mir	nimum width of:		Υ	Υ	Υ
		• 1-b	edroor	n apartm	nents: Min	imum 3.	6m				1	ī	I
				n apartm	ents: Min	imum 4r	n						
		Require									_	_	_
					nrough apa								
4E Private open							ry balc	onies wit	h a minimum are	ea			
space and					depth of 2		1 1 .		l				
balconies							ry baic	onies wit	h a minimum are	ea			
					n depth of		rv halc	onies wit	h a minimum are	22			
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		Propose	d deve	elopment	:								
		U – Un		·		R – Re	quired	POS area	a (m²)				
		B – No	. of be	drooms		P – Pro	oposed	l POS are	a (m²)				
				1	1		1						
		U	В	R	Р	U	В	R	P				
		C11	3	12	22	D11	3	12	17				
		C12	3	12	22	D12	3	12	20		Ν	Υ	Υ
		C13	3	12	15	D13	3	12	14				
		C14 C15	3	12	16 20	D14	3	12	14				
		C15	3	12	21	D15	3	12	22				
		C16	3	12	34	D16 D17	3	12	22				
								1	ıill not be satisfie	ьd			
				-					ensuring that the				
	4E-1								Further, the area				
									nts, and the desig				
		of the b	uilding	s would	ensure th	at all pri	vate o	pen spac	e balconies wou	ld			
									secondary acce				
									objectives wou				
									apable of suppor				
				•	_				odium or simil				
					n space is n² and a m				lcony. It must hav	/e			
		a IIIIIIIII	uiii ait	ea 01 1511	II allu a III	IIIIIIIIIIII	uepin	01 3111.					
		Propose	d:										
		Unit		posed P	OS area	Unit		Propose	d POS area				
		C1	200)m²		D1		93m ²					
		C2	67	m²		D2		80m ²					
		C3	10	5m²		D3		100m ²			-	-	-
		C4	70	m²		D4		100m ²					
		C5	69			D5		80m ²					
		C6	69			D6		80m ²					
		C7	70			D7		100m ²					
		C8		5m ²		D8		100m ²					
		C9	70			D9		80m ²					
		C10	20:	3m ²		D10		170m ²					

		Note: Areas above are inclusive of 'front' courtyard areas and individual POS areas.			
	4E-2		-	Υ	Υ
	4E-3	New balconies would be integrated into the facades of the buildings.	-	Υ	Υ
	4E-4	The design prevents stepped changes in ground levels within POS areas.	-	Υ	Υ
4F Common	4F-1	Maximum number of dwellings off circulation core: 4	Υ	Υ	Υ
circulation and spaces	4F-2		-	Υ	Υ
4G Storage	4G-1	Required: • Studio apartments: 4m³ • 1 bedroom apartments: 6m³ • 2 bedroom apartments: 8m³ • 3+ bedroom apartments: 10m³ Sufficient storage is provided in accordance with ADG requirements, noting that each apartment includes storage areas, rooms and cupboards, in addition to substantial walk-in-robes. It should also be noted that individual garages would also include large areas for storage.	Υ	Y	Y
411	4G-2	Storage is to be provided within dwellings and individual garages.	-	Y	Y
4H Acoustic	4H-1		-	Y	Y
privacy 4J Noise and	4H-2 4J-1	Not applicable.	-	Y	Υ
pollution	4J-1 4J-2	Not applicable.	-	-	-
4K Apartment	4,1-2	The proposed development includes the following mix:	H	-	
Mix	4K-1	 Three bedrooms: 14 Four bedrooms: 20 The apartments are also split between 'terrace style' apartments and more traditional layouts. The proposed mix anticipates demand for such housing by families seeking a larger number of bedrooms with larger private open space areas like those being proposed within this development. The size of the dwellings (in terms of number of bedrooms, floor space and POS area) is reflective of similar such development residential development within the surrounding area. 	-	Υ	Υ
	4K-2	The larger terrace style apartments are appropriately situated at lower levels to take advantage of larger at-grade POS areas, while small apartments are located at higher elevations.	-	Υ	Υ
4L Ground floor apartments	4L-1	Direct access to communal areas is proposed for the terrace apartments at ground level. Activity is achieved through terraces, gardens and the façade of each dwelling, which enable overlooking of communal areas.	-	-	-
	4L-2	Privacy would be afforded to the terrace apartments through the situation of the majority of POS areas to the rear of the dwelling (i.e. within the side setback areas) and sufficient spatial separation between the two RFBs.	-	-	-
4M Facades	4M-1	The buildings will be highly articulated and provide areas of visual interest when viewed between surrounding residential development.	-	Υ	Υ
	4M-2	Building entries are clearly define; corners and ends of the building are clearly defined through changes in articulation, materials and colours.	-	-	-
4N Roof design	4N-1	Roof design is integrated into the building design.	-	Υ	Υ
	4N-2	Not applicable. Sustainability measures will include skylights	-	- V	- Ү
40 Landscape design	4N-3 4O-1	Sustainability measures will include skylights. The landscape design will enhance the local microclimate through the implementation of appropriately scaled and locally endemic trees.	-	Y	Y
	40-2	Tree plantings will progressively be visible from, and positively contribute towards, the streetscape.	-	Υ	Υ

Housing Guideline's silver level universal design features in accordance with the design guideline. 4Q-2 Four three-bedroom apartments are proposed to be adaptable, which are contained within a variety of layouts. The proposed layouts are flexible and would be capable of accommodating a range of domestic uses and needs. 4R Adaptive Freuse F	Y Y	-	4P Planting on structures
Section C1.9 of P21 DCP requires that 20% of the apartments be adaptable. Four apartments (i.e. 11.7% of the total number) are adaptable apartments. The proposal however satisfies the 20% requirement for the Liveable Housing Guideline's silver level universal design features in accordance with the design guideline. 4Q-2 Four three-bedroom apartments are proposed to be adaptable, which are contained within a variety of layouts. 4Q-3 The proposed layouts are flexible and would be capable of accommodating a range of domestic uses and needs. 4R Adaptive 4R-1 Not applicable. 4S Mixed Use 4S-1 Not applicable. 4S-2 Not applicable. 4S-2 Not applicable. 4T Awnings and 4T-1 Not applicable. 4T-2 Not applicable. 4T-2 Not applicable. 4U-1 Performance 4U-1 Energy efficiency 4U-1 The proposal maximises the number of units that will obtain adequate solar access; refer to the assessment above. 4U-2 4U-3 The proposal maximises the number of units that will obtain adequate natural ventilation; refer to the assessment above. 4V Water 4V-1 Appropriate and drought-tolerant landscaping is proposed. 4V-2 Urban stormwater would be treated; refer to submitted engineering information. 4V-3 Appropriate stormwater management systems are proposed; refer to submitted engineering information. 4V-3 Appropriate stormwater management systems are proposed; refer to submitted engineering information. 4W Waste 4W Waste 4W Waste 4W Waste 4W Base 5 Section C1.9 of the total number) of the total number of builty agest the provided within the basement and out of sight of nublic areas: there would be sufficient space for bulk waste	Y Y	-	
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management of sight of public areas: there would be sufficient space for bulk waste		-	conservation
4W-1 storage. Refer to the submitted waste management plan for further information.	YY	-	4W Waste management
Designated waste and recycling bins would be separated. Refer to the submitted waste management plan for further information.		-	
4X Building Measures to prevent weathering of the building as recommended by the ADG are to be adopted.		-	_
4X-2 The design and layout would permit ease of maintenance where required		-	
Sturdy and natural materials are proposed to reduce ongoing maintenance requirements.		-	