## Table 1 – APARTMENT DESIGN GUIDE – DESIGN OBJECTIVE AND DESIGN CRITERIA

East Village Centre, Jordan Springs - DA SUBMISSION - Issue A 11.10.2019

<b>OBJECTIVE</b>	D	ESIGN CRITERIA	PROPOSED	COMMENT
Part 3 - Siting	the Development			
3A Site Analysis		decisions have been based on opportunities and and the relationship to the surrounding context	Complies	Built-form considers future neighbouring buildings as well as the buildings within the development with adequate setbacks and heights to adjacent village park to minimise any solar impacts.
3B Orientation	Objective 3B-1 Building types and layouts respond within the development	to the street and site while optimizing solar access	Complies	The orientation of the built-form maximizes solar access and views wherever possible.
	Objective 3B-2 Overshadowing of neighbouring pro	operties is minimized during mid-winter	Complies	Strategic building built-form minimises overshadowing impact on future neighbouring properties and future Village Park.
3C Public Domain Interface	Objective 3C-1 Transition between private and pull and security	olic domain is achieved without compromising safety	Complies	Apartments are secure from the street and are accessed through a central lobby.
	Objective 3C-2 Amenity of the public domain is ret	ained and enhanced	Complies	Mailboxes and services are located on the ground level.
3D Communal and Public Open Space	Objective 3D-1 And adequate area of communal open space is provided to enhance residential amenity and	<ol> <li>Communal open space has a minimum area equal to 25% of the site</li> <li>Developments achieve a minimum of 50% direct sunlight to the principal usable part of</li> </ol>	On Merit	The development will have a communal open spaces and communal rooms where residents can
	to provide opportunities for landscaping	the communal open space for a minimum of 2 hours between 9am and 3pm on 21st June (midwinter)	N/A	gather and socialize. The proximity of the Village Park will also provide amenity for the residents. All apartments will have large private open spaces to serve as a place for interaction
	Objective 3D-2 Communal open space is designed	to allow for a range of activities, respond to site	Complies	Communal open spaces and rooms provide seating areas for gathering

	conditions and be attractive and inv	iting					and socializing.
	Objective 3D-3 Communal open space is designed t	o maximize safety				Complies	Communal open spaces and rooms are private, only tenants have access to this areas and will require swipe key to access.
	Objective 3D-4 Public open space, where provided, neighbourhood					Complies	Wide landscaped areas surrounding the space provide buffer between adjoining units and properties.
3E Deep Soil Zone	Objective 3E-1 Deep soil zone provides areas on	Deep soil zones are requirements:	e to meet the	following	minimum		
	the site that allow for and support healthy plant and tree growth. They improve residential amenity	Site Area	Min. Dimensions	Deep So (% of th area)			
	and promote management of water and air quality	Less than 650m <sup>2</sup>	-	7%			Site Area: 1.106 ha
		650m <sup>2</sup> - 1500m <sup>2</sup>	3m	7%		On Merit	Required Deep Soil Area 7%: 774.2 m <sup>2</sup>
		Greater than 1500m <sup>2</sup>	6m	7%			Proposed Deep Soil Area: 298 m <sup>2</sup> (2.3%)
		Greater than 1500m² with significant tree cover	6m	7%			
3F	Objective 3F-1 Adequate building separation	Separation between					Building separation adopted.
Visual Privacy	distances are shared equitably between neighbouring sites, to achieve reasonable levels of	provided to ensure visual privacy is achieved.  Minimum required separation distances from buildings to the side and rear boundaries are as follows:			Building articulation & form were used to achieve reasonable privacy between adjoining buildings within		
	external and internal visual privacy.	Building Height  Up to 12m (4	Habitable and bale	conies	Non- habitable rooms		the development.
	Note: Separation distances between buildings on the same	storeys)	-		3m	Complies	
	site should combine required building separations depending on the type of room.	Up to 25m (5-8 storeys)	9n	า	4.5m		
		Over to 25m (9+ storeys)	121	m	6m		

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3G Pedestrian Access and Entries	and air and balance outlook and  Objective 3G-1	s increase privacy without compromising access to light views from habitable rooms and private open space.  ccess connects to and addresses the public domain	Complies  Complies	Façade articulations, landscaping and privacy screens to balconies facing the childcare outdoor area enhancing living environments.  Pedestrian entry from street frontage for residential building. Some apartments are also orientated towards the street.
	Objective 3G-2 Access, entries and pathways are	accessible and easy to identify	Complies	Each of the entry points are clear and easily read by residents, visitors and passer by alike.
	Objective 3G-3 Large sites provide pedestrian lin	ks for access to streets and connection to destinations	Complies	
3H Vehicle Access	Objective 3H-1 Vehicle access points are designed	ed and located to achieve safety, minimize conflicts and create high quality streetscapes.	Complies	The vehicle access point has been designed to maximise pedestrian safety.
3J Bicycle and Car Parking	Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	<ul> <li>On sites that are within 800m of a railway station or light rail stop in the Sydney Metropolitan Area; or</li> <li>On land zoned, and sites within 400m of land zoned, B3 Commercial Core, B4 Mixed Use of equivalent in a nominated regional centre</li> <li>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 the relevant council, whichever is less. The car parking needs for a development must be provided off street.</li> </ul>	Complies	Traffic report will be submitted with Development Application.  165 spaces required for residential use and 192 provided = 165 residential and 27 visitor spaces. 155 spaces required for retail / commercial use and 166 provided inclusive of 4 car wash bays.
	Objective 3J-2 Parking and facilities are provided	d for other modes of transport	Complies	20 bicycle racks are provided for all residents and visitors, large storage cages can be utilised as bicycle storage.
	Objective 3J-3 Car park design and access is safe and secure			Secure car park access via driveway ramp & lift access to all residential levels.
	Objective 3J-4 Visual and environmental impact	s of underground car parking are minimised	Complies	

	Objective 3J-5	Complies		
	Visual and environmental impact	s of on-grade car parking are minimised	Compiles	
	Objective 3J-6	s of above ground enclosed parking are minimised	N/A	
Part 4 – Desig	ning the Building	s of above ground enclosed parking are minimised		
4A Solar and Daylight Access	Objective 4A-1 To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space.	<ol> <li>Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours of direct sunlight between 9am and 3pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas</li> </ol>	Complies	104/135 apartments = <b>77%</b> Receives min 2hr direct sunlight to living rooms and private open space.
		<ol> <li>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 9am and 3pm at mid-winter</li> </ol>	N/A	
		<ol> <li>A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm mid winter.</li> </ol>	Complies	19/135 apartments = <b>14%</b>
	Objective 4A-2 Daylight access is maximized whe	ere sunlight is limited	Complies	Full height balcony windows/ doors and skylights to maximize daylight access.
	Objective 4A-3 Design incorporates shading and	glare control, particularly for warmer months	Complies	Awnings/overhangs assist with diffusing glare and providing shade.
4B Natural Ventilation	Objective 4B-1 All habitable rooms are naturally	ventilated	Complies	
	Objective 4B-2 The layout and design of single as	spect apartments maximizes natural ventilation	Complies	
	Objective 4B-3 The number of apartments with natural cross ventilation is maximized to create a comfortable indoor environment for residents	<ol> <li>At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed</li> <li>Overall depth of a cross-over or cross-through</li> </ol>	Complies  Complies	88/135 Apartments achieve cross ventilation. Deemed to comply at <b>65</b> %
		apartment does not exceed 18m, measured glass line to glass line		
4C Ceiling Heights	Objective 4C-1 Ceiling height achieves	Measured from finished floor level to finished ceiling level, minimum ceiling heights are:	Complies	Ceiling heights proposed are consistent with ADG recommendations:

	sufficient natural ventilation				- 2.7 habitable
	and daylight access	Minimum ceiling he buildings	eight for apartment and mixed use		- 2.4 non-habitable 3100 mm floor to floor provided
		Habitable Rooms	2.7m		assuming 200mm thick slab, 25mm for
		Non-Habitable	2.4m		flooring and 175 for ceiling – 2700.
		For 2 Storey	2.7m for main living area floor		Services to be maintained in non-
		Apartments	2.4m for second floor, where its		habitable spaces to maximise ceiling
			area does not exceed 50% of the		heights in habitable areas.
			apartment area		
		Attic Spaces	1.8m at edge of room with a 30 degree minimum ceiling slope		
		If located in mixed	3.3m for ground and first floor to		
		use areas	promote future flexibility		
	Objective 4C-2 Ceiling height increases the sense proportioned rooms	e of space in apartme	nts and provides for well-	Complies	Habitable rooms are located directly adjacent openings and private open spaces where ceiling is maximized. Bulkheads are minimised where possible and services occupy ceiling spaces of non-habitable rooms to prevent unnecessary reduced ceiling heights.
	Objective 4C-3 Ceiling heights contribute to the	flexibility of building	use over the life of the building	N/A	
4D Apartment Size and	<b>Objective 4D-1</b> The layout of rooms within an	1.00	s are required to have the following nternal areas:		
Layout	apartment is functional, well organised and provides a high	Apartment Type	Minimum Internal Area		
	standard of amenity	Studio	35m²		
		1 bedroom	50m <sup>2</sup>	Complies	All apartments comply with minimum
		2 bedroom	70m <sup>2</sup>	Compiles	internal areas
		3 bedroom	90m²		
		Additional bathroon area by 5m <sup>2</sup> each.	nal areas include only one bathroom.  ms increase the minimum internal  and further additional bedrooms		
			um internal area by 12m²each		
			table room must have a window in an		All habitable room have a minimum
			all with a total minimum glass area of	Complies	glass area of 10% of the floor area of the

			than 10% of the floor area and air may not be borro oms			room.
	Objective 4D-2 Environmental performance of the apartment is maximised	maximu  2. In open	le room depths are limited m of 2.5 x the ceiling heig plan layouts (where the li	ht ving, dining	Complies Complies	All habitable room depths are less than 2.5x the ceiling height  Window to kitchen dimension in open
		habitabl	hen are combined) the ma e room depth is 8m from	a window		plan living ranges between 4m to 6m
	Objective 4D-3 Apartment layouts are designed to accommodate a variety of household activities	10m2 a	r bedrooms have a minimo and other bedrooms 9m2 obe space)		Complies	Master bedrooms range from 3.2 x 3.2m (10.24 sqm) to 3.3 x 4.0 (13.2 sqm)
	and needs		oms have a minimum dimo cluding wardrobe space)	ension of	Complies	Other bedrooms range from 3.0 x 3.2m (9.6 sqm) to 3.1 x 3.4m (10.54 sqm)
		rooms	rooms or combined living/ have a minimum width of 3.6m for studio and 1 bed apartments 4m for 2 & 3 bedroom apa	room artments	Complies	Living spaces to all apartments have minimum width of 4.0m
		apartm	dth of cross-over or cross- nents are at least 4m inter deep narrow apartment la	nally to	Complies	
4E Private Open Space	<b>Objective 4E-1</b> Apartments provide	All apartments are required to have primary balconies as follows:			All balconies in this development comply with the minimum depth of	
and Balconies	appropriately sized private open space and balconies to	Dwelling Type	Minimum Area	Minimum Depth	Complies	2.0m – 2.4m and relevant minimum areas.
	enhance residential amenity	Studio Apartments	4m <sup>2</sup>	-		
		1 Bedroom Apartments	8m²	2m		
		2 Bedroom Apartments	10m²	2m		
		3+ Bedroom Apartments	12m <sup>2</sup>	2.4m		

		contributing to the b 2. For apartme or similar st provided ins	ny depth to be counted as alcony area is 1m ents at ground level or on a podium ructure, a private open space is stead of a balcony. It must have a rea of 15m2 and a minimum depth	Complies	
	Objective 4E-2 Primary private open space and befor residents	palconies are appropria	ately located to enhance liveability	Complies	Private open space is directly to a living space, orientated to allow for maximized solar access and ventilation.
	Objective 4E-3 Private open space and balcony of architectural form and detail of t		o and contributes to the overall	Complies	Balconies and private open spaces are integrated with the building form and façade.
	Objective 4E-4 Private open space and balcony of	design maximises safet	У	Complies	Balconies have been designed with details that avoid opportunities for climbing and falls, including solid and glass balustrades to provide additional protection.
4F Common Circulation	Objective 4F-1 Common circulation spaces		um number of apartments off a core on a single level is eight	Complies	two lifts are proposed for all buildings serving a maximum of 6 apartments on
and Spaces	achieve good amenity and properly service the number of apartments		s of 10 storeys and over, the umber of apartments sharing a 40	N/A	a single level
	Objective 4F-2 Common circulation spaces promesidents	note safety and provide	e for social interaction between	Complies	Centralized lift lobby encourages social interaction and provides amenity for doing so.
4G	Objective 4G-1	In addition to storage	e in kitchens, bathrooms and		All apartments have the storage
Storage	Adequate, well designed	bedrooms, the follow	ving storage is provided:		requirement for each apartment.
	storage is provided in each	Dwelling Type	Storage Size Volume		Refer to storage diagram and unit
	apartment	Studio apartments	4m <sup>2</sup>		schedule on architectural drawings.
		1 bedroom	6m²		
		apartments		Complies	
		2 bedroom	8m²	Complies	
		apartments			
		3+ bedroom	10m²		
		apartments			
			equired storage is to be located		
	within the apartment				

	Objective 4G-2 Additional storage is conveniently located, accessible and nominated for individual apartments	Complies	Additional secured storage is provided and easily accessible in the basement with individual cages for each apartment.
4H Acoustic Privacy	Objective 4H-1 Noise transfer is minimised through the siting of buildings and building layout	Complies	Where possible planting, circulation and non-habitable rooms are located to buffer external noise sources.
	Objective 4H-2 Noise impacts are mitigated within apartments through layout and acoustic treatments	Complies	Appropriate acoustic measure will be undertaken at CC stage. Provisions have been made for wall thicknesses and floor to floor heights for construction methodology.
4J Noise and Pollution	Objective 4J-1 In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	Complies	Habitable rooms are generally setback from external noise of the surroundings through balconies and landscaping.  An acoustic report is provided with this Development Application
	Objective 4J-2 Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	Complies	Where possible, building articulation and landscaping are provided to assist in diffusing noise transmission.
4K Apartment Mix	Objective 4K-1 A range of apartment types and sizes is provided to cater for different household types now and into the future	On merit	Unit type cater to the household types in the area with 1-bed, 2-bed and some of the 3-bedroom apartments have the flexibility to turn the some of the bedrooms into family rooms/ study.
	Objective 4K-2 The apartment mix is distributed to suitable locations within the building	Complies	
4L Ground Floor Apartments	Objective 4L-1 Street frontage activity is maximised where ground floor apartments are located	Complies	Ground floor townhouses have external courtyard facing the street to promote activity along street front.
	Objective 4L-2 Design of ground floor apartments delivers amenity and safety for residents	Complies	Private open spaces are landscaped with integrated fencing for additional safety.
4M	Objective 4M-1	Complies	The facades of the building between the

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Facades	Building facades provide visual interest along the street while respecting the character of the local area		two stages have been carefully designed with a mix of material palette to create visual interest. Rendered walls, vertical batten screens and a sympathetic CFC cladding create a visually interacting façade whilst responding to the character of the local area.
	Objective 4M-2 Building functions are expressed by the facade	Complies	Residential entry clearly identified via different treatment in the façade (i.e. visual break).
4N Roof Design	Objective 4N-1 Roof treatments are integrated into the building design and positively respond to the street	Complies	Acoustic service screens were carefully placed on the roofs to minimise visual impact towards the street.
	Objective 4N-2 Opportunities to use roof space for residential accommodation and open space are maximised	Complies	Communal open spaces are proposed on the stage 1 buildings and were carefully designed on the roof to minimise visual impact towards streetscape.
	Objective 4N-3 Roof design incorporates sustainability features	Complies	Roof extends awning over windows and doors to habitable spaces to control sunlight during summer.
40 Landscape Design	Objective 40-1 Landscape design is viable and sustainable	Complies	Landscaping and native plant selection provides shading and privacy, and contributes to the local climate. Selection of native and low water usage trees reduce water usage and maintenance.
	Objective 40-2 Landscape design contributes to the streetscape and amenity	Complies	Where possible, landscaping has been included to provide amenity and streetscape.
4P Planting on	Objective 4P-1 Appropriate soil profiles are provided	Complies	Refer to Landscape Consultant detail
Structures	Objective 4P-2 Plant growth is optimised with appropriate selection and maintenance	Complies	Refer to Landscape Consultant detail
	Objective 4P-3 Planting on structures contributes to the quality and amenity of communal and public open spaces	Complies	Refer to Landscape Consultant detail

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4Q Universal Design	Objective 4Q-1 Universal design features are included in apartment design to promote flexible housing for all community members	Complies	Apartments are open plan in design providing a free-flowing living quality with generous open space for occupant flexibility.
	Objective 4Q-2 A variety of apartments with adaptable designs are provided	Complies	14 of 135 apartments are adaptable to meet council requirements (10%)
	Objective 4Q-3 Apartment layouts are flexible and accommodate a range of lifestyle needs	Complies	All apartments have open plan living allowing flexibility on the use.
4R Adaptive Reuse	Objective 4R-1 New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place	N/A	Brand new development
	Objective 4R-2 Adapted buildings provide residential amenity while not precluding future adaptive reuse	N/A	Brand new development
4S Mixed Use	Objective 4S-1 Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	Complies	
	Objective 4S-2 Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	Complies	Keyed entry required to residential development.
4T Awnings and Signage	Objective 4T-1 Awnings are well located and complement and integrate with the building design	Complies	Entry awnings are provided to give cover to the residents and visitors.
	Objective 4T-2 Signage responds to the context and desired streetscape character	Complies	Signage to future detail to be integrated to entries, façade and lobby design.
4U Energy Efficiency	Objective 4U-1 Development incorporates passive environmental design	Complies	Adequate light and ventilation to all habitable rooms and lobbies.
	Objective 4U-2  Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	Complies	BASIX assessment submitted with the development application
	Objective 4U-3 Adequate natural ventilation minimises the need for mechanical ventilation	Complies	Apartments designed with appropriate depths, ceiling heights and planning to promote airflow and natural ventilation.

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4V Water Management and Conservation	Objective 4V-1 Potable water use is minimised	Complies	Water reducing fixtures and low water usage landscaping implemented
	Objective 4V-2 Urban storm-water is treated on site before being discharged to receiving waters	Complies	Refer to hydraulic engineer's reports and drawings
	Objective 4V-3 Flood management systems are integrated into site design	Complies	Refer to hydraulic engineer's reports and drawings
4W Waste Management	Objective 4W-1 Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	Complies	Garbage bin holding area located in the basement capable to fit required number of bins.  Refer to WMP submitted with this application
	Objective 4W-2 Domestic waste is minimised by providing safe and convenient source separation and recycling	Complies	Waste management plan will be submitted with Development Application.
4X Building Maintenance	Objective 4X-1 Building design detail provides protection from weathering	Complies	Material proposed are robust and hard weathering minimizing maintenance. Building detailing will provide protections to opening and control leaching etc.
	Objective 4X-2 Systems and access enable ease of maintenance	Complies	Generally, maintenance of the building can be directly accessed via individual unit or internal lobbies.
	Objective 4X-3 Material selection reduces on-going maintenance costs	Complies	Natural and resilient material selection of rendered wall, powder coated aluminium and claddings reduces ongoing maintenance.