# PRINCIPLE 7 - SAFETY PRINCIPLE 8 - HOUSING DIVERSITY & SOCIAL INTERACTION

Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets.

# needs and household budgets.

# Principle 8. Housing Diversity & Social Interaction



The proposal will provide an increase in the residential housing available in Sydney Olympic Park, consistent with SOPA's vision for the redevelopment area. The buildings will consist a wide range of apartment types and sizes with the aim being to create a socially diverse neighbourhood. To cater for varied demand in the market, the apartment mix includes 1,2,3 and 4 bedroom units as well as this application will make affordable housing contribution to SOPA community.



# Principle 7. Safety



The public streets and promenade spaces of the area will have passive surveillance. Incorporated across the design are many windows and balconies all having the potential to overlook the public domain. Generally, each private garden will be secured by low height walls, railings and integrated with planted screenings. To each ground floor apartment, a private courtyard will have direct street access via a secured gate.

The entrance lobbies to each apartment block will be appropriately lit and be access compliant for people with a physical impairment.





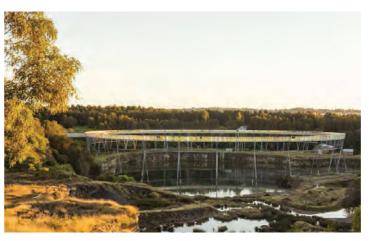
### SEPP 65 DESIGN PRINCIPLE PTW

#### PRINCIPLE 9 - AESTHETIC

Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures.

# Principle 9. Aesthetics









The buildings are characterised by organic forms with curved corners. Taking cues from the naturalistic shapes of the adjoining landscapes, including the curvilinear Brickpit ring walk within the adjacent Brickpit Park, the design of the buildings incorporate fine slab lines and sinuous spandrels to visually integrate each podium and tower as one visual element. The strong horizontal lines of the podium elements incorporate white glazed brickwork with full height glazing to provide an elegant and contemporary aesthetic. This architectural language is extended across each building block to provide urban cohesion and visual unity.

The use of sun shading elements, including projections as a functional and sustainable requirement, is consistent with the architectural language between each building. This will provide urban cohesion and visual unity. The strong horizontal lines of the podium elements incorporate white perforate screens to be elegant and contemporary in appearance.

Refinement in the design of the facade demonstrates little great change when the final design is compared with the competition scheme. A close-up detail of the metal screen is characterised by varying the density in perforation; this complementing the overall architectural expression and strikingly organic forms.

New built form will define and enhance the urban land-scape in a positive way; with the visual language of the architectonic elements provided to enhance this landscape. Through an emphasis of urban form, each corner element will spatially reinforce the urban condition including having a gateway character for the Olympic Park Town Centre to the south-west. Woven into the design is a landscape strategy of interconnected public space. This 'green ribbon' will connect the Brickpit Park with Badu Mangroves as a sequence of new public open spaces, each having a distinct landscape character. Importantly each new apartment within the development will have access and/or visual connection to this ribbon.



## SEPP 65 DESIGN VERIFICATION STATEMENT PTW

PTW Architects
Peddle Thorp & Walker P/L

ABN 23 000 454 624

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Australia China Vietnam Taiwan 1 November 2018

General Manager Department of Planning and Environment 320 Pitt Street, Sydney NSW 2000

#### SEPP 65 Design Verification Statement

Re: Development Application for Proposed Residential Development at 1 & 2 Murray Rose Avenue, Sydney Olympic Park

I, Simon Parsons, Practice Director of PTW Architects, confirm that to the best of my knowledge, information and belief, that:

- (a) I directed the design team up to the lodgement of the Development Application of the proposed residential development, and;
- (b) That the design quality Principles as set out in Part 2 of State
  Environmental Planning Policy No. 65 Design Quality of Residential Flat
  Development and the Apartment Design Guide (ADG) are achieved for the
  proposed residential development.

Yours faithfully PTW Architects

Simon Parsons Practice Director NSW Architect No: 6098

Nominated Architects S Parsons Architect No. 6098 D Jones Architect No. 4778

# OS ADG COMPLIANCE



PTW Architects Peddle Thorp & Walker P/L ABN 23 000 454 624 Level 11 88 Phillip Street Sydney NSW Australia 2000

T +61 2 9232 5877 F +61 2 9221 4139 ptw.com.au Document Project Project Number Client Stage

Date

SEPP 65 Assessment Report -Apartment Design Guide (ADG) compliance

1&2 Murray Rose Avenue Sydney Olympic park

PA015288

Austino Propaty Group

Design Development Applicaion

29/10/2018

	OBJECTIVE	DESIGN CRITERIA			PROPOSED	COMMENT	
Part 3 Siting th	he Development						
Site Analysis	Objective 3A-1 Site analysis illustrates that design decisions have been based on opportunities and constraints of the site conditions and their relationship to the surrounding context			<b>√</b>	-Addresses SEPP and SOPA Masterplan 2030, -solar/view opportunity and shadow impact to wetland		
Orientation	Objective 3B-1 Building types and layouts respond to t the development	Objective 3B-1 Building types and layouts respond to the streetscape and site while optimising solar access within the development					
	Objective 3B-2 Overshadowing of neighbouring proper	<b>√</b>	Minimising the impact to wetland (refer to shadow diagram)				
Public Domain Interface	Objective 3C-1 Transition between private and public d security	<b>√</b>	-All building entry lobbies have a street addressExternal lift in site 1 provides access from brick pit park to communal open space				
	Objective 3C-2 Amenity of the public domain is retained	<b>√</b>	Additional stairs provides visual link to the prick pit park through site link "Chase"				
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				<b>✓</b>	-Scheme allows for Communal Open Space greater than 25% of site area.(52.9%) -Communal Open Space receives min 50% sunlight in mid winter	
	Objective 3D-2 Communal open space is designed to be attractive and inviting	<b>√</b>	-Communal open space can be directly accessed from all buildingsL8 roof garden has BBQ and seating facilities.				
	Objective 3D-3 Communal open space is designed to	<b>√</b>	Controlled access to communal open space.				
	Objective 3D-4 Public open space, where provided, is neighbourhood	<b>√</b>	Responds with 2 Murray Rose Ave through site link design				
Deep Soil Zones	Objective 3E-1 Deep soil zones provide areas on the site that allow for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality	Deep soil zones are to meet the following minimum requirements:			<b>√</b>	Complies with 9.5% Deep soil zone; However the minimum dimension is 2.5m to achieve this within the site.	
		Site Area	Min. Dimension ns	Deep soil zone (% of site area)			
	Less than 650m <sup>2</sup> - 75						



#### ADG COMPLIANCE SUMMARY

		650m²- 1500m²	3m			
		Greater than 1500m <sup>2</sup>	6m			
		Greater than 1500m² with significant tree cover	6m			
	Objective 3F-1 Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy	✓	Western façade above L9 is not separated. However the façade can be modified to comply with ADG in any future development.			
	Note: Separation distances between buildings on the same site should combine required building separations	Building height	Habitable rooms and balconies	Non- habitable rooms		
	depending on the type of room	Up to 12m (4 storeys)	6m	3m		
		Up to 25m (5-8 storeys)	9m	4.5m		
		Over 25m (9+ storeys)	12m	6m		
	Objective 3F-2 Site and building design elements increand balance outlook and views from habitable rooms a		romising acces	ss to light and air	<b>√</b>	Perforated screen provides privacy without compromising on the outlool and views
Pedestrian Access and Entries	Objective 3G-1 Building entries and pedestrian access	<b>√</b>	All building entrance lobbies have a street address			
	Objective 3G-2 Access, entries and pathways are acce	<b>√</b>	All building entrance lobbies have a level access			
	Objective 3G-3 Large sites provide pedestrian links for	<b>√</b>	Through site link "Chase" provided			
Vehicle Access	Objective 3H-1 Vehicle access points are designed an pedestrians and vehicles and create high quality stree	nd located to achieve safety, minimise conflicts between stscapes			<b>√</b>	Paving, floor marking and signage is provided throughout pedestrian paths for site link
	Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas  For development in the following locations:  on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or  on land zoned, and sites within 400 metres of land zoned, B3 Commercial Core, B4 Mixed Use 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 the relevant council, whichever is less  The car parking needs for a development must be provided off street.				-Provide min rate of RMS residential car parking -Provide min SOPA masterplan bicycle parking  Refer to traffic report	
	Objective 3J-2 Parking and facilities are provided for o	✓	Provide under cover bicycle parking			
	Objective 3J-3 Car park design and access is safe and secure				<b>√</b>	Clearry identified lift lobby
	Objective 3J-4 Visual and environmental impacts of underground car parking are minimised				<b>√</b>	-Level access from street to under ground car park -Ventilation screens integrated into façade design
	Objective 3J-5 Visual and environmental impacts of on	N/A				
	Objective 3J-6 Visual and environmental impacts of above ground enclosed car parking are minimised ,				<b>√</b>	Loading zone through site link is covered by landscaping and does not face primary street frontage



Solar and	Objective 4A-1 To optimise the number		nd private open spaces of at least 70% of	<b>√</b>	70.1% of apartments and POS
Daylight Access	of apartments receiving sunlight to habitable rooms, primary windows and private open space	apartments in a b direct sunlight bei Sydney Metropol	uilding receive a minimum of 2 hours tween 9 am and 3 pm at mid winter in the itan Area and in the Newcastle and government areas		receive 2 hours direct sunlight in mi winter
		of at least 70% of	as, living rooms and private open spaces apartments in a building receive a urs direct sunlight between 9 am and 3	✓	
			15% of apartments in a building receive between 9 am and 3 pm at mid winter	<b>√</b>	6.1% of apartments receive no direct sunlight in mid winter
	Objective 4A-2 Daylight access is maxim	nised where sunligh	nt is limited	<b>√</b>	Daylight from courtyard provides secondary light source
	Objective 4A-3 Design incorporates shad	ding and glare cont	trol, particularly for warmer months	<b>√</b>	Perforated screen provides shading
Natural Ventilation	Objective 4B-1 All habitable rooms are n	naturally ventilated	<b>√</b>	All habitable room have openable windows or doors	
	Objective 4B-2 The layout and design of	f single aspect apar	<b>√</b>	Apartment depths are limited to 8m for open plan layout to maximise airflow	
	Objective 4B-3 The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents	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		✓	61.1% of apartments have natural cross ventilation in the first 9 storeys
			f a cross-over or cross- through ot exceed 18m, measured glass line to	<b>√</b>	cross through apartment depth is 11m
Ceiling Heights	Objective 4C-1 Ceiling height achieves sufficient natural ventilation and	Measured from finished floor level to finished ceiling level, minimum ceiling heights are:		<b>√</b>	-2.7m-3.2m(penthouse) for habitabl rooms -2.4m for non habitable rooms
	daylight access	Minimum ceiling height for apartment and mixed use buildings			
		Habitable Rooms  Non- Habitable	2.4m		
		For 2 Storey Apartments	2.7m for main living area floor		
			2.4m for second floor, where its area does not exceed 50% of the apartment area		
		Attic Spaces	1.8m at edge of room with a     30 degree minimum ceiling slope		
		If located in mixed use areas	3.3m for ground and first floor to promote future flexibility of use		
	Objective 4C-2 Ceiling height increases to proportioned rooms	the sense of space	in apartments and provides for well-	<b>√</b>	The stacking of wet areas minimises bulkheads in habitable rooms
	Objective 4C-3 Ceiling heights contribute to the flexibility of building use over the life of the building				These areas will not be converted to



Apartment Size and Layout	Objective 4D-1 The layout of rooms within an apartment is functional, well organised and provides a high standard	Apartments a internal areas:	are required to have	the following minimum	✓	-1B 50-78m2 -2B 75-117m2 -3B 96-206m2
	of amenity	Apartment Types	s Min	nimum Internal Area		- 4B 229m2
		Studio		35m³		
		1 bedroom		50m³		
		2 bedroom		70m³		
		3 bedroom		90m³		
		The minimum internal areas include only one bathroom.  Additional bathrooms increase the minimum internal area by 5m² each.  A fourth bedroom and further additional bedrooms increase the minimum internal area by 12m² each.				
		2. 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			<b>√</b>	There is no borrowed light to habitable room
	Objective 4D-2 Environmental performance of the apartment is maximised	Habitable room     the ceiling heigh		d to a maximum of 2.5 x	<b>√</b>	
	maximised	In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window			<b>√</b>	
	Objective 4D-3 Apartment layouts are  1. Master bedrooms have a minimum area of 10m² and				1	
	designed to accommodate a variety of household activities and needs	other bedrooms 9m² (excluding wardrobe space)		<b>√</b>		
		2. Bedrooms have a minimum dimension of 3m (excluding wardrobe space)			✓	
		<ul> <li>3. Living rooms or combined living/dining rooms have a minimum width of:</li> <li>• 3.6m for studio and 1 bedroom apartments</li> <li>• 4m for 2 and 3 bedroom apartments</li> </ul>			<b>√</b>	
		4. The width of cross-over or cross-through apartments are at least 4m internally to avoid deep narrow apartment layouts			<b>√</b>	9.2m width of cross through apartments
Private Open Space and		All apartments are required to have primary balconies as follows:			<b>√</b>	
Balconies		Dwelling type	Minimum Area	Minimum Depth		
		Studio	4m³	-		
		1 bedroom	8m³	2m		
		2 bedroom	10m³	2m		
		3+ bedroom	12m³	2.4m		
		The minimum balcony depth to be counted as contributing to the balcony area is 1m				
	Objective 4E-1 Apartments provide appropriately sized private open space and balconies to enhance residential amenity	structure, a priva	ate open space is pr have a minimum ar	on a podium or similar rovided instead of a ea of 15m² and a	<b>√</b>	Refer to drawing units marked as "Ground floor apartments"



	Objective 4E-2 Primary private open spaliveability for residents	ice and balconies are a	ppropriately located to enhance	<b>√</b>	Primary balconies are located adjacent to the living rooms
	Objective 4E-3 Private open space and I overall architectural form and detail of the		ated into and contributes to the	<b>√</b>	Curved balconies contributes to the façade design and building form
Objective 4E-4 Private open space and balcony design		oalcony design maximis	ses safety	<b>√</b>	Min 1.8m fence provided for ground floor POC
Common Circulation and Spaces	Objective 4F-1 Common circulation spaces achieve good amenity and	The maximum numl core on a single level	ber of apartments off a circulation is eight	<b>√</b>	Max 11 apartments off a core. However, sunlight and natural ventilation are provided to common circulation areas/spaces
	properly service the number of apartments	_	storeys and over, the maximum s sharing a single lift is 40	<b>√</b>	42 apartments sharing a single lift. However, lift volume, speed and performance has been advised by lift consultant.
	Objective 4F-2 Common circulation space between residents	ces promote safety and	provide for social interaction	<b>√</b>	Direct access from entrance lobby to lifts. All lift lobbies have sunlight
Storage	Objective 4G-1 Adequate, well designed storage is provided in each apartment		in kitchens, bathrooms and ng storage is provided:	<b>√</b>	
		Dwelling Type	Storage size volume		
		Studio	4m³		
		1 bedroom	6m³		
		2 bedroom	8m³		
		3+ bedroom	10m³		
		At least 50% of the receive apartment			
	Objective 4G-2 Additional storage is corapartments	veniently located, acces	<b>√</b>	All apartments have storage cages in basement (provides 50% of required storage volume)	
Acoustic Privacy	Objective 4H-1 Noise transfer is minimised through the siting of buildings and building layout			<b>√</b>	Adequate building separation provided.
	Objective 4H-2 Noise impacts are mitigate treatments	ated within apartments t	<b>√</b>	Bed rooms are grouped together within the apartments	
Noise and Pollution	Objective 4J-1 In noisy or hostile enviror minimised through the careful siting and		xternal noise and pollution are	<b>√</b>	Landscaped buffer zone contributes to minimizing the impact from Bennelong Park Way
	Objective 4J-2 Appropriate noise shieldi construction and choice of materials are			<b>√</b>	External screen and solid balcony balustrads act as noise shielding
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			<b>√</b>	A variety of apartment types is provided
	Objective 4K-2 The apartment mix is distributed to suita	ble locations within the	✓	Larger apartment types are located on the ground and higher floor levels	
Ground Floor Apartments	Objective 4L-1 Street frontage activity is maximised where ground floor apartments are located			<b>√</b>	Direct street access provided to ground floor apartments
	Objective 4L-2 Design of ground floor ap	partments delivers amer	<b>√</b>	Elevation of POC above the street level along Murray Rose Avenue and northern path adjacent to Brick Pit Park	
Facades	Objective 4M-1 Building facades provide visual interest along the street while respecting the character of the local area			<b>√</b>	Façade responds to the character of Olympic park facilities and Brickpit Park landscape
	Objective 4M-2 Building functions are ex	xpressed by the facade	<b>√</b>	Perforated screen acts as a privacy screen, sun shading and architecutural feature	
Roof Design	Objective 4N-1 Roof treatments are integstreet	grated into the building	design and positively respond to the	<b>√</b>	Set backs and stepped roof breaks down the massing
	Objective 4N-2 Opportunities to use roo maximised	f space for residential a	ccommodation and open space are	<b>√</b>	L8 roof used for communal open space
	Objective 4N-3 Roof design incorporates	s sustainability features	✓	Roof space used for solar panels	



### ADG COMPLIANCE SUMMARY

Landscape Design	Objective 40-1 Landscape design is viable and sustainable	<b>✓</b>	Appropriate planting provided incorporated with solar access
	Objective 40-2 Landscape design contributes to the streetscape and amenity	<b>√</b>	Landscape incorporated with existing gabion wall
Planting on Structures	Objective 4P-1 Appropriate soil profiles are provided	✓	
	Objective 4P-2 Plant growth is optimised with appropriate selection and maintenance	<b>√</b>	
	Objective 4P-3 Planting on structures contributes to the quality and amenity of communal and public open spaces	<b>√</b>	
Universal Design	Objective 4Q-1 Universal design features are included in apartment design to promote flexible housing for all community members	<b>√</b>	10% of total apartments incorporate the silver universal design
	Objective 4Q-2 A variety of apartments with adaptable designs are provided	<b>√</b>	10% of total apartments incorporate adaptable design
	Objective 4Q-3 Apartment layouts are flexible and accommodate a range of lifestyle needs	<b>√</b>	Larger apartments have various living space options
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	
	Objective 4R-2 Adapted buildings provide residential amenity while not precluding future adaptive reuse	N/A	
Mixed Use	Objective 4S-1 Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	N/A	
	Objective 4S-2 Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	N/A	
Awnings and Signage	Objective 4T-1 Awnings are well located and complement and integrate with the building design	<b>√</b>	Entrance lobbies are covered by a building strcture above
	Objective 4T-2 Signage responds to the context and desired streetscape character	<b>√</b>	
Energy Efficiency	Objective 4U-1 Development incorporates passive environmental design	<b>√</b>	Adequate lighting and ventilation to all habitable rooms
	Objective 4U-2 Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	<b>√</b>	Slab projection and perforated screens are provided
	Objective 4U-3 Adequate natural ventilation minimises the need for mechanical ventilation	<b>√</b>	Natural ventilation provided for all habitable rooms
Water Management	Objective 4V-1 Potable water use is minimised	<b>√</b>	Rainwater stored and reused on site
and Conservation	Objective 4V-2 Urban stormwater is treated on site before being discharged to receiving waters	<b>√</b>	Stormwater treatment tanks are provided
	Objective 4V-3 Flood management systems are integrated into site design	✓	Gabion wall heights are incorporated with flood levels
Waste Management	Objective 4W-1 Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	<b>√</b>	Adequately sized storage areas are provided with a prepared Waste Management Plan
	Objective 4W-2 Domestic waste is minimised by providing safe and convenient source separation and recycling	<b>√</b>	Waste and recycling chutes are provided to all levels
	Objective 4X-1 Building design detail provides protection from weathering	<b>√</b>	Slab projection provides protection from weathering
	Objective 4X-2 Systems and access enable ease of maintenance	<b>√</b>	Building manager and maintenance store rooms are provided
Building Maintenance	Objective 4X-3 Material selection reduces ongoing maintenance costs	<b>√</b>	Natural materials such as Gabion wall are used in the building base





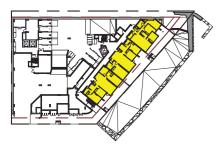
### SOLAR ACCESS COMPLIANCE

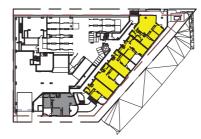
















LEVEL B1 - 6/6

LEVEL 00 - 12/16

LEVEL 01 - 17/24

LEVEL 02 - 21/33

















LEVEL 03 - 23/34

LEVEL 04 - 23/34

LEVEL 05 - 23/34

LEVEL 06 - 20/29

SEPP_SOLAR ACCESS_YIELD				
SOLAR ACCESS NO. OF APARTMENTS %				

0HRS	18	6.1%
<2HRS	70	23.8%
>2HRS	206	70.1%

GRAND TOTAL: 294

N	NON COMPLIANT
NS	NO SOLAR

Y COMPLIANT



### SOLAR ACCESS COMPLIANCE

