

## **Assessment of development against the nine design principles in SEPP 65**

### **Principle 1- Context and Neighbourhood Character**

*Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic and environmental conditions.*

*Responding to context involves identifying the desirable elements of an area's existing or future character. Well-designed buildings respond to and enhance the qualities and identity of the area including the adjacent sites, streetscape and neighbourhood.*

*Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.*

**Comment:** The redevelopment of the site for a landmark building is consistent with the future vision for the site as stated within the Wagga Wagga Riverside Master Plan. This vision requires a building of appropriate design quality and architectural features that is site responsive so that its commanding presence does not result in visual intrusion that detracts from or overwhelms adjacent development and that does not compromise the values of the heritage conservation area.

The development is strategically located close to transport and facilities and within a heritage conservation area that comprises significant built heritage items. The design of the development has responded to some of these issues. The design takes advantage of the river and city views and provides significant housing opportunities within an accessible and convenient location.

The development presents a significant opportunity to realise the vision for Cadell Place, activate the precinct and rejuvenate the area in accordance with the vision and strategies set out in the Riverside Master Plan. The future character is for pedestrian movement, artisan space and connection to the river and the commercial space adjacent to the levee is the ideal location for a coffee shop with open seating areas to the front.

### **Principle 2 - Built Form and Scale**

*Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings.*

*Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements.*

*Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook*

**Comment:** The development site is a landmark site where a significant building has been planned and proposed for some time. Adjoining sites within the neighbourhood will have a lower built form to that intended for the development site. The height of the development is significant but this is not unexpected and not necessarily unreasonable nor unacceptable given the vision for the development of the site within the precinct.

The proposed built form with two towers of residential accommodation allows for varied sized apartments that each achieve the required standards for function and amenity. The orientation, configuration and setbacks of the proposed development have been designed to avoid existing easements and services, maximise residential amenity and take advantage of views to the Murrumbidgee River. At ground level, setbacks are minimal, compliant and not inconsistent with adjacent development, nor unacceptable within the commercial precinct.

The bulk of the development is broken up by the design of two separate residential towers. The scale of each tower is reflective of the surroundings with the higher tower maximising scale by focusing outlooks across the river plains to the north. The break up of the bulk of the development also minimises the overshadowing from the development at different times of the day.

There is a servicing area to Cadell Place for the collection of waste, it is anticipated that this function will occur early in the morning and not be of detriment to users of the public domain in this area.

### **Principle 3 - Density**

*Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context.*

*Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment.*

**Comment:** The proposed density is consistent with the Council's various strategic planning documents as increased residential accommodation within the central area contributes to an active, safe and vibrant city. The proposal complies with the FSR for the site and provides a variety of apartment sizes across the development. The density allows for an increase in the number of modern high quality residential units within the central area close to jobs and community facilities. The location is well connected to facilities and transport links with nearby pedestrian walkways cycleways and public roadways and with a bus stop less than 150m away.

### **Principle 4 - Sustainability**

*Good design involves design features that provide positive environmental and social outcomes.*

*Good sustainable design includes use of natural cross breezes and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials and deep soil zones for groundwater recharge and vegetation.*

**Comment:** The applicant has provided a BASIX Certificate which confirms that the development complies with the required water, thermal comfort and energy conservation targets.

The development provides access to sunlight with 70% of the apartments receiving a minimum of 3 hours of direct sunlight and the remaining 30% receiving 2 hours of direct sunlight. All apartments have large windows optimising natural light and 79% of the apartments have natural cross ventilation. Recycling facilities are provided on site in the form of communal waste chutes for different types of waste.

### **Principle 5 - Landscape**

*Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well- designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood.*

*Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, coordinating water and soil management, solar access, micro-climate, tree canopy, habitat values and preserving green networks.*

*Good landscape design optimises useability, privacy and opportunities for social interaction, equitable access, and respect for neighbours' amenity and provides for practical establishment and long term management*

**Comment:** The development includes a communal area of open space at the podium level. Landscaping is provided across this area within raised planter beds of a mix of native shrubs and perennials. The planting scheme is complemented with hardscaping materials which consist of a mix of contemporary and heritage elements providing a landscaped space that is

unique, ornamental and functional. Tree planting is proposed to the Sturt Street frontage and alternate paving along Cadell Place will contribute to the streetscape in a positive manner.

Each unit is provided with private balcony areas sufficient for recreational use and amenity benefit. Whilst some balconies do not achieve the minimum depth they all exceed the minimum area which is considered acceptable. The reduced depth to balconies to apartment K is linked to the wind exposure and the reduced balconies to apartment I is to minimise overshadowing.

#### **Principle 6 - Amenity**

*Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident well-being.*

*Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas and ease of access for all age groups and degrees of mobility*

**Comment:** The design has sought to provide the best amenity possible for residents taking into account the various constraints and opportunities presented by the site with consideration to neighbouring development. Amenity will be improved by the significant view opportunities and strategic position of the site near the Murrumbidgee River and in a convenient and accessible location. The apartments all meet minimum size requirements with many being much larger with good natural cross ventilation. Storage is provided to all apartments with a mix of cupboard areas within the apartment and storage cages within the car-park areas. Appropriate noise attenuation such as double glazed windows has been incorporated into the design of the building to protect future residents from noise disturbance.

#### **Principle 7 - Safety**

*Good design optimises safety and security within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety.*

*A positive relationship between public and private spaces is achieved through clearly defined secure access points and well-lit and visible areas that are easily maintained and appropriate to the location and purpose.*

**Comment:** The development provides passive surveillance opportunities, territorial reinforcement and delineation of private and public domain. The main pedestrian entrances onto Cadell Place provide activation to this streetscape as well as increased pedestrian movement towards the commercial premises and levee connection. This area will be appropriately illuminated for the safety of the public and the residents.

The external open space within the development presents a wide useable area that is accessible only by residents from within the residential towers and has good visibility from within the building and across the podium area.

The proposal was referred to NSW Police who supported the overall development but did recommend that a condition be placed on any approval requiring the preparation and implementation of a Safety Management Plan

#### **Principle 8 - Housing diversity and social interaction**

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

*Well-designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix.*

*Good design involves practical and flexible features, including different types of communal spaces for a broad range of people and providing opportunities for social interaction among residents.*

**Comment:** The proposal provides for 67 residential apartments in a commercial area that has good access to facilities, public roads, pedestrian paths and the riverside. The proposed mix includes: 28 x three bedroom units, 29 x two bedroom units and 10 x one bedroom units providing good housing diversity for differing household needs and budgets.

The level 2 podium provides outdoor space for the development as well as a common internal space for various community uses. The commercial area on Cadell Place includes an external space for good social interaction among residents and community alike.

**Principle 9 - Aesthetics/Architectural Expression**

*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.*

*The visual appearance of a well-designed apartment development responds to the existing or future local context, particularly desirable elements and rhythms of the streetscape.*

**Comment:** The development has incorporated a variety of materials and finishes in response to the existing built form within the precinct as well as differentiating between the uses and elements within the development.

The building incorporates a base plinth that is finished in red brick, this is complementary to the adjacent Romano's Hotel building. There is good use of glazing as the towers increase in height and the staggered building line contributes to the visual aesthetics of the development and reduces the overall bulk of the building.

The design responds well to the adjacent river outlook by concentrating balconies to this elevation.

## APARTMENT DESIGN GUIDE (ADG)

No	Objective	Control	Complies
<b>3A</b>	<b>Site Analysis</b>		
<b>3A-1</b>	<i>Site analysis illustrates that design decisions have been based on opportunities and constraints of the site conditions and their relationship to the surrounding context</i>	Each element in the Site Analysis checklist should be addressed	YES - supporting information provided in the form of plans showing site analysis and context, including existing buildings in the locality, heights of buildings, streetscapes, materials, character, and building form.
<b>3B</b>	<b>Orientation</b>		
<b>3B-1</b>	<i>Building types and layouts respond to the streetscape and site while optimising solar access within the development.</i>	Face streets and incorporate direct access from the street Orientate buildings to north	YES – smaller tower responds directly to Sturt Street Entrances into buildings and road treatment allow a response to Cadell Place too Northern elevations to the river optimise solar access
<b>3B-2</b>	<i>Overshadowing of neighbouring properties is minimised during mid-winter.</i>	Solar access to new apartments and existing buildings reduction to solar to neighbours no greater than 20% If significant reduction increase building separation Minimise privacy and overshadowing impacts	YES – shadow of existing structures demonstrated Impact to surrounding buildings shown on shadow diagrams many are commercial and have no shadow in afternoon Kilnacroft living space to north so unaffected
<b>3C</b>	<b>Public Domain Interface</b>		
<b>3C-1</b>	<i>Transition between private and public domain is achieved without compromising safety and security.</i>	Direct entry from street, balconies to overlook public domain, permeable fencing, active ground level, minimise concealed areas	No ground floor apartments Open walkway access into commercial Balconies all have ability to overlook public domain Car park walls are permeable Linkage of common landscape area to all apartments Connection of commercial space 3

			with outdoor seating and levee link
<b>3C-2</b>	<i>Amenity of the public domain is retained and enhanced.</i>	New planting, garbage areas out of view, limit use of ramps, strong interfaces with adjoining open space	treatment of Cadell Place is positive garbage storage is undercover levee linkage near commercial space
<b>3D</b>	<b>Communal and Public Open Space</b>		
<b>3D1</b>	<i>An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping</i>	<b>DESIGN Criteria</b> <i>Communal open space has a minimum area equal to 25% of the site Minimum dimensions of 3m Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a min 2 hours between 9am-3pm on 21 June</i>	Communal open space is provided and complies
<b>3D2</b>	<i>Communal open space is designed to allow for a range of activities, respond to site conditions and be attractive and inviting</i>	Seating, bbq area, play areas, common room Respond to microclimate	Communal open space has a mix of facilities Communal bicycle parking area also provided Shaded areas for summer and winter
<b>3D3</b>	<i>Communal open space is designed to maximise safety</i>	Visible from habitable rooms without reducing privacy; Well lit	All well lit and visible from variety of locations
<b>3D4</b>	<i>Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood</i>	n/a paved streetscape area?	The treatment of the street and the seated space at the commercial area allows for the activation of Cadell Place
<b>3E</b>	<b>Deep Soil Zones</b>		
<b>3E1</b>	<i>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</i>	<b>Design Criteria</b> <i>Minimum dimension deep soil zone is 6m and 7% of site area (165.6m<sup>2</sup>)</i>	Cannot be achieved due to landscaped areas on podium roof Significant plantings but not deep soil Permeable pavers to be used in streetscape

			Stormwater management achieved
<b>3F</b>	<b>Visual Privacy</b>		
<b>3F1</b>	<i>Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of external and internal visual privacy</i>	<b>Design Criteria</b> Up to 12m (4 storeys) Habitable and balconies 6m Non habitable 3m Up to 25m (5-8 storeys) Habitable and balconies 9m Non habitable 4.5m Over 25m Habitable and balconies 12m Non habitable 6m	YES – minimum distances are all achieved
<b>3F2</b>	<i>Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space</i>		Balustrades to communal area Offset windows Vertical fins between balconies
<b>3G</b>	<b>Pedestrian Access and Entries</b>		
<b>3G1</b>	<i>Building entries and pedestrian access connects to and addresses the public domain</i>		Clearly identified pedestrian entries are proposed to Cadell Place residential lobbies and to commercial properties on Sturt Street.
<b>3G2</b>	<i>Access, entries and pathways are accessible and easy to identify</i>		Entries are clearly identified, the use of different paving along Cadell Place will define the walkway.
<b>3G3</b>	<i>Large sites provide pedestrian links for access to streets and connection to destinations</i>		Links into car park, lobby areas and lifts from Cadell Place as well as linking to the levee walkway.
<b>3H</b>	<b>Vehicle Access</b>		
<b>3H1</b>	<i>Vehicle access points are designed and located to achieve safety, minimise conflicts between pedestrians and vehicles and create high quality streetscapes</i>		Single vehicle entry point from new driveway separate from pedestrian entry points; lights will have limited impact on residential properties Permeable screening to car-park levels Separate garbage collection area

<b>3J</b>	<b>Bicycle and Car Parking</b>	
<b>3J1</b>	<i>Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas</i>	<p><b>Design criteria</b> For Wagga Wagga car parking is based on either the Guide to Traffic Generating Development or the DCP requirements whichever is the lesser</p> <p>using the guide the requirement is 85 spaces for the residential apartments. The internal car park provides 85 spaces and complies Manoeuvring within car park and to and from all spaces has been demonstrated. Tandem spaces will be utilised by three bedroom apartments that are assigned both of the spaces</p>
<b>3J2</b>	<i>Parking and facilities are provided for other modes of transport</i>	Bicycle parking storage area is provided
<b>3J3</b>	<i>Car park design and access is safe and secure</i>	Louvred screens allow circulation Lobby areas glazed with good visibility Storage areas near to lifts and car spaces
<b>3J4</b>	<i>Visual and environmental impacts of underground car parking are minimised</i>	No underground parking; permeable roller door set in from the access lane for security
<b>3J5</b>	<i>Visual and environmental impacts of on-grade car parking are minimised</i>	visitor parking provided within access driveway, accessible spaces to Cadell Place – lobbies are accessible from both areas
<b>3J6</b>	<i>Visual and environmental impacts of above ground enclosed car parking are minimised</i>	Louvred screening allows for improved presentation to Cadell Place – use of red brick facades complements nearby buildings – entrances designed into the building façade
<b>4A</b>	<b>Solar and Daylight Access</b>	
<b>4A1</b>	<i>To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space</i>	<p><b>Design criteria</b> living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of <u>3 hours</u> direct sunlight</p> <p>Living rooms and private open spaces of at least 70% of apartments in the building receive a minimum of 3 hours direct sunlight between 9am-3pm in mid-winter.</p>

		between 9 am and 3 pm at mid winter  A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid winter	The remaining 30% of apartments receive 2 hours for the same time
4A2	<i>Daylight access is maximised where sunlight is limited</i>		All apartments utilise large windows and sliding doors to maximise light
4A3	<i>Design incorporates shading and glare control, particularly for warmer months</i>		North facing apartments have shading devices & use high performance glass
4B	<b>Natural Ventilation</b>		
4B1	<i>All habitable rooms are naturally ventilated</i>		Achieved
4B2	<i>The layout and design of single aspect apartments maximises natural ventilation</i>		Achieved
4B3	<i>The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents</i>	<b>Design Criteria</b> At least 60% of apartments are naturally cross ventilated  Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line	Overall 79% comply, there are 14 single aspect apartments that don't comply,  None of the apartments exceed 18m depth
4C	<b>Ceiling Heights</b>		
4C1	<i>Ceiling height achieves sufficient natural ventilation and daylight access</i>	<b>Design criteria</b> <i>Minimum ceiling heights from finished floor to finished ceiling heights</i> <u>Mixed Use</u> <i>3.3m from ground and first floor</i> <i>Habitable 2.7m</i> <i>Non-habitable 2.4</i> <i>2 storey apartments</i> <i>2.7m main living,</i> <i>2.4m for second floor where the area does not exceed 50% of the apartment.</i>	Complies

4C2	<i>Ceiling height increases the sense of space in apartments and provides for well proportioned rooms</i>		All habitable areas have 2.7m high ceilings with large windows
4C3	<i>Ceiling heights contribute to the flexibility of building use over the life of the building</i>		Level 1 ceilings (within tower 1) are 3.3m to allow for future flexibility of use
4D	<b>Apartment Size and Layout</b>		
4D1	<i>The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity</i>	<p><b>Design criteria</b>  Min internal areas  Studio 35m<sup>2</sup>  1 bed 50m<sup>2</sup>  2 bed 70m<sup>2</sup>  3 bed 90m<sup>2</sup>  The min internal areas only include one bathroom.  Additional bathrooms increase the minimum internal area by 5m<sup>2</sup> each.  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</p>	<p>All apartments meet minimum areas</p> <p>All habitable rooms have windows and exceed 10%</p>
4D2	<i>Environmental performance of the apartment is maximised</i>	<p><b>Design Criteria</b>  Habitable room depths are limited to a maximum of 2.5 x the ceiling height  In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window</p>	Complies
4D3	<i>Apartment layouts are designed to accommodate a variety of household activities and needs</i>	<p><b>Design criteria</b>  Master – min 10m<sup>2</sup> and other bedrooms 9m<sup>2</sup> (excludes wardrobe space)  Bedrooms min dimension 3m (excludes wardrobe space)</p>	Apartment K (levels 8-13) second bedroom has a width of 2.90m but achieves the minimum area with 9.3sq.m.

		<p>Living rooms or combined living dining rooms have a minimum width of:</p> <ul style="list-style-type: none"> <li>• 3.6m for studio/1bed</li> <li>• 4m for 2/3 bed</li> </ul> <p>The width of cross over or cross through apartments are at least 4m internally to avoid deep narrow apartment layouts</p>	
<b>4E</b>	<b>Private Open Space and Balconies</b>		
<b>4E1</b>	<p><i>Apartments provide appropriately sized private open space and balconies to enhance residential amenity</i></p>	<p><b>Design criteria</b>  All apartments are required to have primary balconies as follows:  Studio – min area 4m  1 bed – min area 8m, depth 2m  2 bed – min area 10m, depth 2m  3+ - min area 12m, depth 2.4  The min balcony depth to be counted as contributing to the balcony area is 1m  For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a min area of 15m and min depth of 3m</p>	<p>Balconies to Apartment K on levels 9-13 (2 bed) are limited in size due to their location and potential exposure to high winds.</p> <p>The apartment sizes are large and the two smaller balconies (8m<sup>2</sup> + 4m<sup>2</sup>) to the north western corner are considered acceptable.</p> <p>Apartment I on levels 3-7 (3 bed) do not have the minimum depth of balcony but exceed the minimum area.  The balconies are minimised to this elevation to reduce overshadowing of the façade.</p>
<b>4E2</b>	<p><i>Primary private open space and balconies are appropriately located to enhance liveability for residents</i></p>		<p>All balconies connected to living areas, some also connect to bedrooms</p>
<b>4E3</b>	<p><i>Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building</i></p>		<p>Various balcony treatments, balustrades solid and glass</p>

4E4	<i>Private open space and balcony design maximises safety</i>		heights of balconies in line with NCC requirements to ensure safety of all users
4F	<b>Common Circulation and Spaces</b>		
4F1	<i>Common circulation spaces achieve good amenity and properly service the number of apartments</i>	<p><b>Design criteria</b></p> <p>The maximum number of apartments off a circulation core on a single level is eight</p> <p>For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40</p>	<p>Maximum of five apartments per level</p> <p>Two lifts serve 55 apartments in tower 2</p> <p>One lift serves 12 apartments in tower 1</p>
4F2	<i>Common circulation spaces promote safety and provide for social interaction between residents</i>		<p>Wide lobby areas adjacent to lifts on all floors- natural light from window</p> <p>No rooms open directly into lobby area</p> <p>community meeting room included</p>
4G	<b>Storage</b>		
4G1	<i>Adequate, well designed storage is provided in each apartment</i>	<p><i>In addition to storage in kitchens, bathrooms and bedrooms:</i></p> <p><u>Storage required</u></p> <p>Studio 4m<sup>3</sup></p> <p>1 bed 6m<sup>3</sup></p> <p>2 bed 8m<sup>3</sup></p> <p>3 bed 10m<sup>3</sup>:</p> <p>50% is to be within the apartments</p>	<p>Areas all achieved apart from the one bed Apartment E that achieves an area of 8.26m<sup>2</sup> of storage but less than 50% is within the apartment (2.26m<sup>2</sup>)</p> <p>This is acceptable as the overall requirement is exceeded.</p>
4G2	<i>Additional storage is conveniently located, accessible and nominated for individual apartments</i>		<p>Individual cages of 6sq.m have been assigned to the apartments and are easily accessible</p>
4H	<b>Acoustic Privacy</b>		
4H1	<i>Noise transfer is minimised through the siting of buildings and building layout</i>		<p>Apartment layouts group bedrooms together and away from circulation space and noise sources</p>
4H2	<i>Noise impacts are mitigated through layout and acoustic treatments</i>		<p>Double glazing incorporated to limit noise penetration from external sources</p>

<b>4J</b>	<b>Noise and Pollution</b>	
<b>4J1</b>	<i>In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings</i>	n/a
<b>4J2</b>	<i>Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission</i>	n/a
<b>4K</b>	<b>Apartment Mix</b>	
<b>4K1</b>	<i>A range of apartment types and sizes is provided to cater for different household types now and into the future</i>	Mix of 1, 2, 3 beds various designs and sizes
<b>4K2</b>	<i>The apartment mix is distributed to suitable locations within the building</i>	3 bed face the river, 1 and 2 bed mixed locations in both towers
<b>4L</b>	<b>Ground Floor Apartments</b>	N/A
<b>4M</b>	<b>Facades</b>	
<b>4M1</b>	<i>Building facades provide visual interest along the street while respecting the character of the local area</i>	Mix of materials is proposed rendered walls, cladding, glass red brick to lower levels
<b>4M2</b>	<i>Building functions are expressed by the facade</i>	Direct ground floor access to commercial properties, car parking clearly defined by materials, entrances to be features
<b>4N</b>	<b>Roof Design</b>	
<b>4N1</b>	<i>Roof treatments are integrated into the building design and positively respond to the street</i>	Parapet walls used to define the roof boundary Complementary to surrounding roof forms
<b>4N2</b>	<i>Opportunities to use roof space for residential accommodation and open space are maximised</i>	Penthouses on top two levels no living or communal areas on roof for safety and security reasons
<b>4N3</b>	<i>Roof design incorporates sustainability features</i>	Shading provided to penthouse
<b>4O</b>	<b>Landscape Design</b>	
<b>4O1</b>	<i>Landscape design is viable and sustainable</i>	Complies
<b>4O2</b>	<i>Landscape design contributes to the streetscape and amenity</i>	Minimal impact to streetscape as Landscaped areas on podium level Hard landscaping contributes through paving of streetscape

			along Cadell Place and lighting
<b>4P</b>	<b>Planting on Structures</b>		
<b>4P1</b>	<i>Appropriate soil profiles are provided</i>		Planter boxes on podium level
<b>4P2</b>	<i>Plant growth is optimised with appropriate selection and maintenance</i>		Natives and drought tolerant species used, maintenance plan provided
<b>4P3</b>	<i>Planting on structures contributes to the quality and amenity of communal and public open spaces</i>		As above
<b>4Q</b>	<b>Universal Design</b>		
<b>4Q1</b>	<i>Universal design features are included in apartment design to promote flexible housing for all community members</i>		Apartment styles C and H have silver level compliance – 20% Many others have partial compliance
<b>4Q2</b>	<i>A variety of apartments with adaptable designs are provided</i>		as above
<b>4Q3</b>	<i>Apartment layouts are flexible and accommodate a range of lifestyle needs</i>		Some apartments have ability to mix bedroom and living area layouts
<b>4R</b>	<b>Adaptive Reuse- N/A</b>		
<b>4S</b>	<b>Mixed Use</b>		
<b>4S1</b>	<i>Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement</i>		Easily accessible by different modes of transport Commercial premises provide active frontage
<b>4S2</b>	<i>Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents</i>		Complies
<b>4T</b>	<b>Awnings and Signage</b>		
<b>4T1</b>	<i>Awnings are well located and complement and integrate with the building design</i>		Colonnade and lobby areas provided
<b>4T2</b>	<i>Signage responds to the context and desired streetscape character</i>		No details – likely to be exempt building identification
<b>4U</b>	<b>Energy Efficiency</b>		
<b>4U1</b>	<i>Development incorporates passive environmental design</i>		Natural light to all apartments
<b>4U2</b>	<i>Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer</i>		Insulation Reverse cycle heating and cooling
<b>4U3</b>	<i>Adequate natural ventilation minimises the need for mechanical ventilation</i>		Cross ventilation
<b>4V</b>	<b>Water Management and Conservation</b>		

<b>4V1</b>	<i>Potable water use is minimised</i>		Water efficient fittings, individual meters, BASIX prepared
<b>4V2</b>	<i>Urban stormwater is treated on site before being discharged to receiving waters</i>		Stormwater collected into mains – no onsite detention
<b>4V3</b>	<i>Flood management systems are integrated into site design</i>		n/a
<b>4W</b>	<b>Waste Management</b>		
<b>4W1</b>	<i>Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents</i>		Bin storage rooms, collection area accessed from Cadell Place
<b>4W2</b>	<i>Domestic waste is minimised by providing safe and convenient source separation and recycling</i>		Separate waste collection chutes provided
<b>4X</b>	<b>Building Maintenance</b>		
<b>4X1</b>	<i>Building design detail provides protection from weathering</i>		ok
<b>4X2</b>	<i>Systems and access enable ease of maintenance</i>		ok
<b>4X3</b>	<i>Material selection reduces ongoing maintenance costs</i>		ok