

Consolidated Development Control Strategy

Calderwood Urban Development Project

May 2019 **17119**

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JBA Urban Planning Consultants

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Lend Lease

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Lend Lease

Introduction

This Consolidated Development Control Strategy contains specific development control standards for urban design, built form and environmental management. These standards are designed to ensure that the development principles and key elements of the approved Calderwood Concept Plan (MP09_0082) are implemented.

This Consolidated Development Control Strategy incorporates the:

- Development Control Strategy that was included at Appendix BB of the SSS Study and Concept Plan Environmental Assessment Report prepared by JBA Urban Planning Consultants Pty Ltd dated March 2010; and
- Requirements at Statements of Commitment 20 to 22 of the approved Concept Plan;
- Matters specified at Modification B6(7) to (11) of the approved Concept Plan Notice of Determination.

The detailed design of relevant future development, including the design of streets, subdivision and built form is to be generally in accordance with this Consolidated Development Control Strategy.

The detailed design of subdivision, including proposed residential lot sizes, is to be generally in accordance with the development controls relating to the future Character Areas included at Section 1.3.

This version of the DCS has been amended to clarify minimum lot size requirements in accordance with Modification 2 of the Concept Plan. It also contains additional design criteria introduced in conjunction with Modification 4 of the Concept Plan.

1A Urban Structure & Subdivision

1.1 Street Types

The Calderwood street network is to be developed in accordance with the principles of the Calderwood Transport Management and Accessibility Plan (TMAP), namely establishment of a permeable grid and legible street hierarchy that reinforces the neighbourhood structure. The design principles for the road hierarchy ensure they meet performance criteria of the *Planning for Bushfire Guidelines 2006* and promote sustainability principles which are fundamentally embedded in the subdivision design. These principles are identified in the TMAP.

The future street hierarchy in Calderwood reflects the street typologies developed in consultation with SCC. The location of external road connection points and internal roads, as shown in the approved Concept Plan refer to Figure 3 and Appendix C of the Consolidated Concept Plan dated March 2011 May 2019) serve as an indication of the urban structure of the site. Detailed design and placement of these roads will need to take into consideration the drainage regime of the site and the configuration and layout of lots to promote flexibility at DA/PA stage.

Table 1 outlines the street types to be provided in Calderwood. This table also refers to relevant street sections included in Appendix B which illustrate how these controls are to be implemented.

The following general notes are also to be considered in the design of streets -and requirements of Table 1:

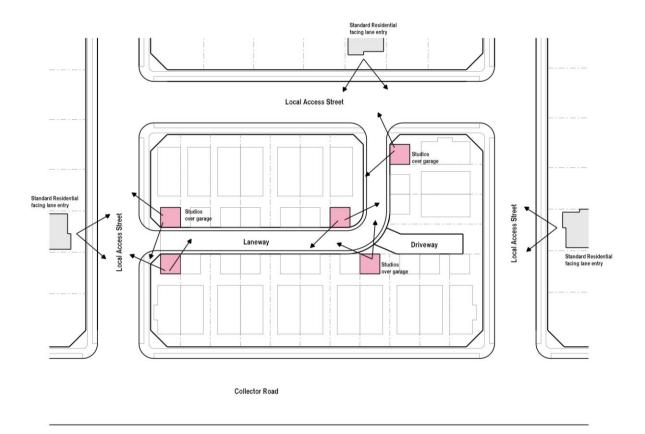
- 1) Tree pits may be incorporated into the carriageway width to help delineate parking and define
 pedestrian priority zones, crossing points and other nodes along main streets. When this occurs,
 the kerb will be brought out and around the tree to integrate the planting with the verge
- 2. 2) Cyclepaths are to be provided as per the Pedestrian and Cycle Network Plan and may be on street or will be off road. On street cycle lane 1m wide each direction Off road share hike and bike 2.5m wide path within total road reserve
- 3. 3) Medians 4m minimum width allow for central tree planting
- 4. 4) Angle parking can be used for high intensity activity areas such as the Town and Village Centres and streets adjoining major parklands with high visitor numbers
- 5. 5)—Upright kerb to be used. Flush and/or permeable kerb to be used on Sub Arterial and WSUD Median at interface with median.
- 6. 6) For major collector roads servicing bus routes, the parking lane will be widened to 3m in localised sections where bus stops are to be provided.

Laneway Design

The design and construction of laneways is to be consistent with Figure 1.

- The layout of laneways should provide lot orientations that support good passive design, landscaping and should consider intersection locations with streets, topography, opportunities for affordable housing, legibility and passive surveillance.
- 2. Laneway entries/crossovers from standard streets are to appear like driveways to encourage slow traffic movement entering and exiting the laneway and to give priority to pedestrian movement. This can be achieved through smaller lot truncations, raised thresholds, different robust materials, signage or a combination of.
- 3. Generally, straight layouts across the block are preferred for safety and legibility, but the detailed alignment can employ subtle bends or secondary or studio dwellings over garages to add visual interest and avoid long distance monotonous views. "C" shaped layouts with the laneway length parallel to the front street can limit the views of laneways from residential streets to short sections.

- 4. Laneway design that includes any bends or intersections are to be sized for garbage truck movements.
- 5. Lanes on sloping land with significant longitudinal and/or cross falls require detailed design consideration to demonstrate functionality.



<u>Figure 1 – Laneway Design</u> demonstrating best practice surveillance <u>Source: Lendlease</u>

<u>Table 1 – Street Types to be provided in Calderwood</u>

Street Ty	уре	Carriageway					Verge		
Sub Ar	terial Road	Travel Lanes		On-street Cycle Lane No.	Parking	Carriageway Width	Verge Width	Total Reserve	Footpath
A1	Sub Arterial with parking on both sides and bus service	9.07.8m7.8m	0	<u>0</u> 2	5.6m (2.8 + 2.8m)	9.013.4m13. 4m		24m	53m4m ((2.51.5 1.5m + 2.5 1.5 m
A2	Sub Arterial with WSUD-Median and one way traffic lanes with parking	12.9 <mark>9.4</mark> m (<u>6.45</u> 4.7 + <u>6.45</u> 4.7m)	Varies (4m min)	<u>0</u> 2	5 (2.5 + 2.5)5.6m (2.8 + 2.8m)0	<u>12.9</u> 15m	1<u>2.1</u>9m (<u>6.05</u> 5m each side)	Varies 2529m min	43m (24.5 + 1.5m) on sides 1.5 - 2.5 in median
А3	Sub Arterial Roadwith Centre Drainage (one lane in each direction with parking bays)	7.8m <u>7.9m</u>	0	2 <u>0</u>	5.6m <u>5</u> (2.8 + 2.8m <u>2.5</u> + 2.5)		10.6m <u>11.6m</u> 5.3 + 6.3(5.3m each side)	24m28.5m	3m<u>4m</u> (1.5 + 1.5m)2.5)
Street Ty	уре	Carriageway		On atreat Cirola			Verge	Total	
Major C	Collector Road	Travel Lanes		On-street Cycle Lane No.	Parking	Carriageway Width	Verge Width	Reserve	Footpath
B1	Major Collector with parking on both sides and bus service (see Note 6)	<u>7.0</u> 6.4m	0	0	5. <u>0</u> 6m (2. <u>5</u> 8 + 2. <u>5</u> 8m)	12m	10m (5m each side)	22m	3 <u>.7m.4</u> (1. <u>2</u> 5 + <u>2.5</u> 1.5m(1.5 + <u>2.5</u>)
B2	Major Collector with Median and parking on both sides and bus route (see Note 6)	7.06.4m (3. <u>52</u> + 3. <u>52</u> m)	4m	0	5. <u>0</u> 6m (2. <u>05</u> 8 + 2. <u>50</u> 8m)	16m	10m (5m each side)	26m	3 <u>.7m4</u> (1. <u>25 + 21.5m)(1.5 +</u> 2.5m)
<u>B3</u>	Major Collector adjacent Rural Lands	<u>7.0m</u>	<u>0</u>	<u>0</u>	<u>5.0m</u> (2.5 + 2.5m)	<u>12m</u>	<u>10m</u> (5m each side)	<u>22m</u>	<u>2.5m</u>
B4	Major Collector with Median with parking on both sides and bus route (see Note 6)	<u>9m</u>	<u>1</u>	<u>0</u>	<u>5.0m</u> (2.5 + 2.5m)	<u>15m</u>	10m (5m each side)	<u>25m</u>	4m (1.5 + 2.5m)
Street Ty		Carriageway	,				Verge		
Minor (Collector Road	Travel Lanes		On-street Cycle Lane No.	Parking	Carriageway Width	Verge Width	Total Reserve	Footpath
C1	Minor Collector with parking on both sides	5. 4 <u>6.0</u> m	0	<u>0</u> 2	5 <u>.0</u> .6m (2. <u>5</u> 8 + 2. <u>5</u> 8m)	11m	9m (4.5m each side)	20m	2.43m <u>3m</u> (1.25 + 1.25m)(1.5 + 1.5m)
C2	Minor Collector – Pedestrian Priority Street with parking on both sides	<u>6.0</u> 5.4m	0	0	5. <u>0</u> 6m (2. <u>5</u> 8 + 2. <u>5</u> 8m)	11m	12m (7.68.7m on one side and 4.43.3m on other side)	23m	2.7 – 3.7 <u>4.0</u> m (1.5 – 2.5 + 1. <u>52</u> m)
Street Ty	уре	Carriageway	1				Verge	•	•
Town a	nd Village Centre	Travel Lanes		On-street Cycle Lane No.	Parking	Carriageway Width	Verge Width	Total Reserve	Footpath
D1	Town and Village Centre – Collector Road with parking both sides, fully paved verge and bus route	<u>7.0</u> 6.4m	0	0	5. <u>0</u> 6m (2. <u>5</u> 8 + 2. <u>5</u> 8m)	12m	10m (5m each side)	22m	10m (5 + 5m)
D2	Town and Village Centre – Access Main Street with parking both sides and fully paved verge	<u>6.0</u> 5.4m	0	0	5. <u>0</u> 6m (2. <u>5</u> 8 + 2. <u>5</u> 8m)	11m	8m (4m each side)	19m	8m (4 + 4m)
<u>D3</u>	Town Centre Main Street – parking both sides and perpendicular parking to open space edge, fully paved verge and bus route	<u>7m</u>	<u>0</u>	0	<u>8.1m</u> (2.5m + 5.6m)	<u>15.1m</u>	5m (Town side) Varies (open space)	<u>21.1m</u>	5m (town side) 2.5m (open space)
<u>D4</u> <u>3</u>	Access Street – Town with on street parking and footpath on both sides Town Centre Main Street – parking both sides and perpendicular parking to open space edge, fully paved verge and bus route	<u>7.2m7m</u>	<u>00</u>	<u>00</u>	On street8.1m (2.5m + 5.6m)	<u>7.2m15.1m</u>	8.8m (4.4m each side)5m (Town side) Varies (open space)	<u>16m21.1m</u>	3m (1.5m each side)5m (town side) 2.5m (open space)
Street Ty		Carriageway	,				Verge	L	
	Streets	Travel Lanes		On-street Cycle Lane No.	Parking	Carriageway Width	Verge Width	Total Reserve	Footpath
E1	Access Street <u>- Town</u> with on street parking and footpath on both sides	7.2m	0	0	On street	7.2m	8.8m (4.4m each side)	16m	2.4m-3m (1.2m1.5m each side)
E2	Access Street – standard residential street with on street parking and footpath on one side	7.2m	0	0	On street	7.2m	8.8m (4.4m each side)	16m	1.2 —1.5m (on one side)
E3	Access Street – <u>Urban One Way</u> with on street parking and footpath on both sides	7.2m	0	0	On street	7.2m	7m (3.5m each side)	14.2m	2.4m (1.2m each side)
E4	Access Street - Urban (standard urban town and village centre) with on street parking and footpath on one side	7.2m	0	0	On street	7.2m	7m (3.5m each side)	14.2m	1.2—1.5m (on one side)
E5	Access Street – APZ Edge with optional Hike/Bike and Footpath on each side	6m (8m clear path)	0	6 <u>0</u>	On street	8 <i>m</i>	6m <u>4.4m</u> (on one side)	Varies 12.4m min	1.2 —1.5m (on one side)
E6	Access Street - Country with on street parking and footpath on one side	7.2m	0	0	On street	7.2m	12.8m (6.4m each side)	20m	4.2—1.5m (on one side)
E7	Access Street – with WSUD Median parking bays on both sides plus variable width WSUD Median	6m <u>7m</u> (3 <u>.5</u> + 3 <u>.5</u> m)	Varies	0	2.5m each side	6m <u>each</u> side	8.8m (4.4m each side)	Varies 19.8m min	2.4—3m (1.2— 1.5m each side)
	Access Street – Hill Side with variable carriageway width responding to terrain plus passing and parking	7m (3.5 + 3.5m)	Varies	0	2.5m	7m	6m (3m each side)	Varies 13m min	0
	bays in select locations	(* * * * /							
		Carriageway					Verge		
Street Ty				On-street Cycle Lane No.	Parking	Carriageway Width		Total Reserve	Footpath

							(1 + 2m)		
	Open Space Edge Mews (Parking one side , Shared Pedestrian Weenerf-adjacent to open space)	5.6m	0	N/A	2.5m	8.1m	4.3 – 4.7m (2.3 – 2.7 + 2m)	Varies 12.4m12.8m min	Shared Way
F3	Accessway - Mews rear loaded no parking	3 <u>.5</u> m	0	N/A	2.5m 0	<u>35.5m3.5m</u>	4.5m (2.5 + 2m)	8m	Shared Way
F4	Accessway parking one side	<u>5</u> 3.5m	0	N/A	2.5m	<u>5.5</u> 6m	4.5m (2.5 + 2m)	10m	Shared Way

General Notes

- 1) Tree pits may be incorporated into the carriageway width to help delineate parking and define pedestrian priority zones, crossing points and other nodes along main streets. When this occurs, the kerb will be brought out and around the tree to integrate the planting with the verge
- 2) Cyclepaths are to be provided as per the Pedestrian and Cycle Network Plan and may be on street or off road. On street cycle lane 1m wide each direction. Off road share hike and bike 2.5m wide path within total road reserve
- 3) Medians over 4m minimum width allow for central tree planting
- 4) Angle parking can be used for high intensity activity areas such as the Town and Village Centres and streets adjoining major parklands with high visitor numbers
- 5) Upright kerb to be used. Flush and/or permeable kerb to be used on Sub Arterial and WSUD Median at interface with median

1.2 Public Domain

This section details the proposed landscape characters, landscape presentations, and public domain materials and treatments.

1.2.1 Landscape Character Areas

The landscape character of the open space areas within Calderwood are identified on the Landscape Character Areas map at **Figure 1**. As shown at

Figure 1, the landscape character of open space areas is to reflect one of the following landscape characters:

- Bushland;
- Riparian / Woodland;
- Parkland;
- Rural Landscape / Lifestyle;
- Open Space Water; and
- Urban Plazas / Squares.

Bushland Character

The Bushland character is a key landscape theme for open spaces within Calderwood due to its context dominated by Johnstons Spur. This will provide a direct visual and ecological link to the plant communities of Spur, and its deployment through the development of open space will provide green corridor linkages of flora and fauna habitat, and fauna movement. This will be the dominant landscape character within the elevated areas of public realm at Calderwood.

The Bushland character will generally be associated with targeted recreational use, pedestrian cycle access paths being the key use and interpretive / educational access. The bushland environments will generally be self sustaining in terms of maintenance (other than weed monitoring and bushfire management).

Built form may be incorporated in these areas and may include pathways, tracks, street furniture, lighting, and interpretive signage.

Riparian / Woodland Character

The Riparian / Woodland character provides a transition from Bushland areas to Parkland character. The Riparian / Woodland areas generally retain a strong visual and thematic context to the native bushland of Johnstons Spur through retention of creek lines and native tree canopy. The Riparian / Woodland areas will focus on understorey regimes incorporating trees in native grass and groundcover understorey in the Corridors and Environmental Reserves. This is aimed at balancing pedestrian safety

and security with managed understorey level fuels for bushfire risk and levels of roughness appropriate for hydrological balance. The Riparian / Woodland Character Area will comprise areas that are "pastoral" and/or "natural" in appearance and landscape treatment.

Built form may be incorporated through the use of structures and awnings to provide shade and shelter, along with pathways, street furniture, lighting, interpretive signage, public art and water elements

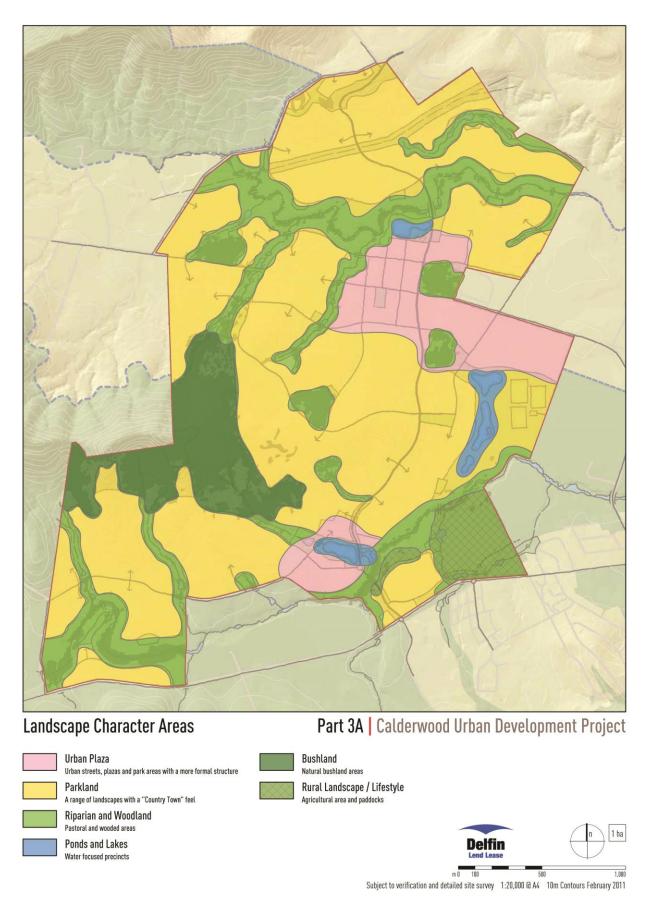


Figure 12 - Landscape Character Areas Map

Parkland Character

The Parkland character will vary between open spaces based on existing features, their context within the urban development, and usage. The essential elements of the Parkland character will be trees in maintained grass, predominantly native canopy to further reflect the bushland context of Johnstons Spur. Non-native trees may be used in select locations such as parks within denser urban areas to provide winter solar access. Parkland character will involve recurrent maintenance of recreational grassed areas (eg ovals).

Built form may be incorporated in these areas and may include change rooms, public amenities, structures and awnings to provide shade and shelter, along with pathways, street furniture, lighting, signage and public art.

Rural Landscape / Lifestyle Character

The Rural Landscape / Lifestyle character provides for a rural transition zone between areas identified for urban development and more "natural" areas with riparian / woodland character.

The Rural Landscape area reflects the objectives of the underlying RU2 zoning. The essential elements of this space will comprise a variety of sustainable primary industry activities that are commensurate with the zoning. This may range from a continuation of low level grazing to more extensive agriculture (such as market gardens, tree nursery or equivalent). The "Lifestyle" area comprises predominantly open land where rural uses and activities, such as horse paddocks, as well as active open space may be located. The Rural Landscape / Lifestyle character area will involve recurrent management of, and activity on, the land.

Native and non-native species may be used in select locations such as boundaries to help define these areas on the ground. Built form may be incorporated in these areas, including fencing, structures and awnings to provide shade and shelter, along with pathways, lighting, signage and roadside stalls.

Open Space Water

A variety of water bodies and elements are proposed as part of the open space network as part of Water Sensitive Urban Design, landscape and stormwater management measures. The Open Space Water character will be located adjacent to other landscape character abutting open space water bodies. The designs of Open Space Water will vary to include both soft and hard edge designs. The selection of options will be based on proximity to habitat corridors, riparian corridors, maintenance requirements and any relevant geomorphological constraints.

Urban Plazas / Squares

The Urban Plazas / Squares character aims to complement the Town and Village Centres by providing urban spaces for the relevant density of built form and range of uses and will seek to provide a focus for community gatherings and events and may be developed as an integrated public access with retail and commercial sites.

The maintenance of these structured landscapes is likely to be higher commensurate with their higher intensity of usage. Deciduous trees may be used in select locations (such as civic spaces) to provide winter solar access.

1.2.2 Landscape Presentation

The landscape presentation reflects the level of landscape detail that is proposed to embellish open space areas. The presentation is typically linked to landscape character. There are three landscape presentations proposed, Urban Presentation, Suburban Presentation, and Natural Presentation. The presentation and maintenance standards for these are detailed in the Landscape and Open Space Masterplan prepared by Environmental Partnership.

Urban Presentation

The Urban landscape presentation is the highest level of presentation that will apply to those open spaces which lie within the denser development zones of the site, and which serve a higher intensity and recurrence of community use. Levels of presentation and related maintenance are higher than other spaces to meet these usage demands and to compliment the urban character of their locations.

Urban Presentation is proposed in the Parkland, Plazas/Squares, and Open Space Water Landscape Characters, or a combination of these.

Suburban Presentation

The Suburban landscape presentation and maintenance will apply to active and passive recreational use spaces catering for general levels of usage including family use, social gatherings, fitness and exercise activities, and playgrounds.

This presentation type may typically encompass a combination of landscape character types. Suburban presentation will generally be located in a landscape setting that is of Riparian / Woodland, Parkland, or Open Space Water character or a combination of each.

Suburban Presentation is proposed in parts of the Riparian / Woodland, Parkland, Open Space Water Landscape Characters and Landscape Characters, or a combination of these.

Natural Presentation

The Natural landscape presentation and maintenance will apply to low level and intensity of use spaces areas that incorporate and adjoin natural systems. Typically green corridors and the interface areas of adjoining parks will fall into this category. Retention of existing vegetation and revegetation (where applicable) with indigenous species (eg Native Grasses) will provide a generally self sustaining landscape with low recurrent maintenance demands.

The Natural Presentation is proposed in the Bushland, Riparian / Woodland and Open Space Water Landscape Characters, or a combination of these.

1.2.3 Public Domain Materials and Treatments

Objectives

- Implement the landscape character area as identified in Section 1.2.1.
- Enhance the visual and functional elements of public domain areas through the appropriate provision of street furniture.
- Enhancing the character, identity and appearance of the public domain, whilst minimising on-going maintenance requirements for public domain materials and treatments.
- Enhance the identity and character of the public domain and landscape through the integration of public art.

Controls

- A Public Domain Plan is to be prepared addressing landscape treatment of streets to distinguish between public and private spaces, street hierarchy and integration of public art into the public domain. The Public Domain Plan is to be submitted to the Department of Planning prior to the submission of any detailed application proposing subdivision or built form works beyond the Stage 1 Project Application.
- A detailed Public Domain Plan demonstrating how proposed public domain works fit within the overall Public Domain Plan is to be submitted with any relevant detailed application.
- Provide street furniture items, including seats, bins, and picnic tables at locations where users are
 most likely to require them, including open space areas identified in the Calderwood Open Space
 Masterplan.
- Signage, street furniture and lighting is to be:
 - designed to reinforce the identity of the development;
 - coordinated in design and style; and
 - located so as to minimise visual clutter and obstruction of the public domain.
- Footpath and cycle path paving should provide a hard wearing, cost effective and maintainable surface. The range of materials should be limited to make maintenance, renewal and extension works cost effective. Potential paving materials include quality stone, asphalt, concrete and exposed aggregate.
- Opportunities for integration of public art into the public domain should be identified through ongoing design at the relevant DA stage.
- Footpaths are required along all primary frontages to integrated housing.

1.2.4 Street Tree Planting

Objectives

- To reinforce the street hierarchy with appropriate native and cultural street tree planting considering scale, form, arrangement and amenity.
- To ensure landscape treatments reflect the civic and visual importance of collector streets and their role in the street hierarchy.

Controls

- Landscape treatment of streets is to:
 - be consistently used to distinguish between public and private spaces and between different street types within the road hierarchy.
 - minimise risk to utilities and services.
 - be durable and suited to the road environment and, wherever practicable, include native species.
 - maintain adequate lines of sight for vehicles and pedestrians, especially around driveways and street corners.
- Sub Arterial and Collector streets should incorporate a strong/formal avenue planting of a larger, evergreen tree species that reinforce the higher order of these streets in the hierarchy and that provide visual continuity and legibility of the route throughout the development.
- Local streets should incorporate native tree species that are of a height and form that reinforce the lower order of these streets in the hierarchy.
- The landscape treatment should provide a continuous street tree canopy located within the road reserve between the footpath and the kerb.
- Ground surfaces to verges and medians are to vary from maintained native grasses to maintained garden bed, pavement or turf. Soft landscape treatments, where provided, should be kept simple to reduce recurrent maintenance needs.
- Design features such as blisters and neckdowns can be used to provide additional space for landscaping and tree planting, where appropriate.
- For integrated developments, landscaping shall be provided in the front yard, and where possible, in rear laneways.

1.2.5 Lighting

Objectives

- Provide adequate lighting to streets to ensure pedestrian and traffic safety.
- To ensure a high quality, functional, safe and attractive public domain reinforced with appropriate lighting.

Controls

- Vehicular street lighting is to meet relevant RTA and Austroads standards.
- Pedestrian lighting should be provided close to footpath lighting, typically
 3.5 to 4.5 metres at 20 metre intervals, to provide optimum illumination.
- Pedestrian lighting is to be pole mounted to meet relevant Australian Standards.
- Major cycle routes and pedestrian access paths are to be lit for night time usage.

1.3 Character Areas

Future Character Areas are shown at Figure 2:

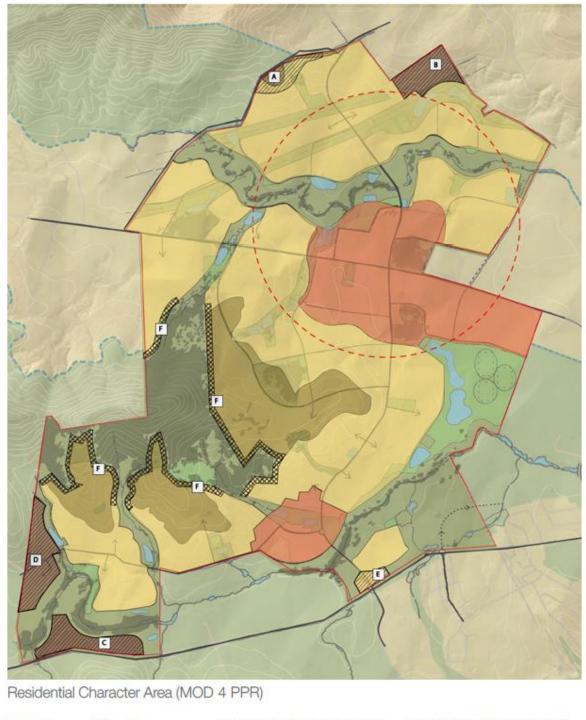
- General Residential Neighbourhood
- Town and Village Centres
- Country Residential
- Bushland Edge (50m AHD)

The General Residential Neighbourhood Character is further defined by Location Criteria, which is land defined as:

- (a) public parks at least 0.3ha 0.2ha in size and where the gradient of the site is less than 1 in 10, or
- (b) the Town and Village Centres in the B4 mixed use zone, or
- (c) where the dwellings are within the 800m walking catchment of the Town Centre Within 800metres/10minute walking distance to the Town Centre (refer to Figure 2)less.

Within the Character Areas, there are a number of Special Character Overlays.

Tables 2 outlines the Planning and Design Principles for each Character Area and **Table 3** outlines the additional Planning and Design Principles for each Special Character Overlay.



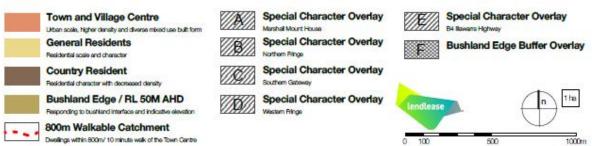


Figure 2-3 – Residential Character Areas Map

Source: Taylor Brammer

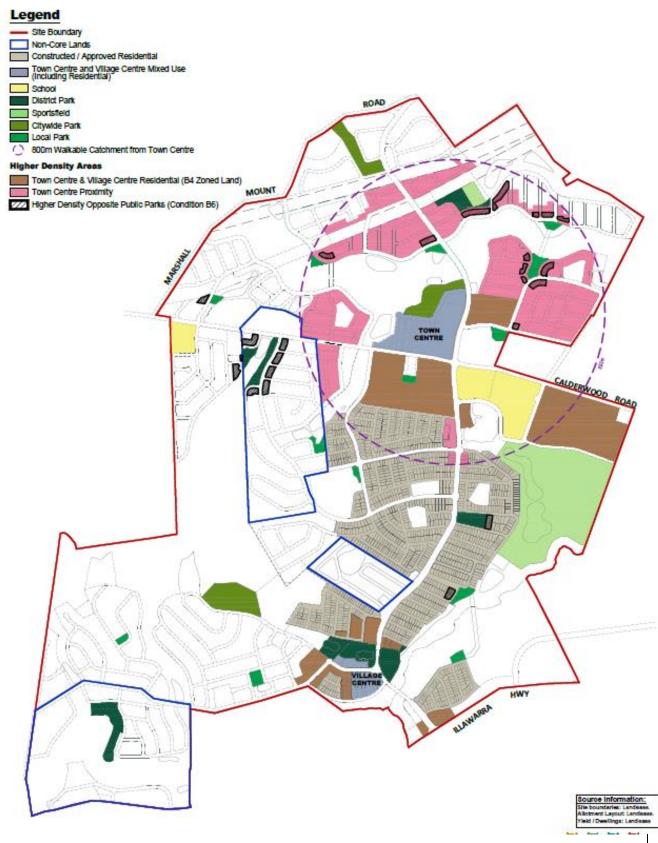


Figure 2-4 – Sites complying with locational criteria Condition B6

Source: RPS

Table 2 - Planning and Design Principles - Character Area

Table 2 - Planning and Design Principles - Character Area

General Residential Neighbourhood

(LC: Location Criteria

R1, E3, E2

Modified grid subdivision designed to be sensitive to the natural topography, views to parks and other open spaces. Walkability integrated into the design to link homes with amenities and public transport. [Under Condition B6, lots less than 300sqm are permitted where they directly adjoin or are directly opposite public parks at least 0.3ha 0.2hain size, or Town or Village Centre, or within 800m of the Town Centre. The focus is to have more people living closer public transport and open spaces and to enhance the walkability and passive surveillance of these areas!

Character

Land Use

Principles

Urban Design

Residential scale and character. [Lots less than 300sqm are permitted adjoining public parks, or Town or Village Centre (refer above)]. C: Residential scale and character with the ability to provide integrated housing higher densities to take advantage of adjacent amenity in areas with Location Criteria as defined belowin accordance with the locational criteria in Condition B6.

Residential.

Predominant Land Uses

Typical Built Form Typology and Design Range of attached and detached dwellings.
Dwellings to be designed to address the street and enhance passive surveillance. (Greater density is permitted adjoining a public park, or Town and Village Centre and other defined locations (refer above)].
LC: Range of attached to detached dwellings including compact housing (with a min lot size of 125m² and a BEP), multi-dwelling housing, manor homes and strata studios.

Dwellings to be designed to address the public domain including: streets, parks and open space to enhance passive surveillance.

Typical Building Heights

1 - 2 storeys.

[1 - 3 storeys adjoining a public park, or Town or Village Centre (refer above), subject to the Maximum Building Heights identified in the SEPP].

LC: 1 – 3 storeys

Open Space

Local/Neighbourhood parks generally within 5min walk. LC: Adjacent to local / neighbourhood parks, regional parkland and central regional open space.

Minimum Lot Size

Public

Transport

300sqm [Lots less than 300sqm are permitted adjoining or directly opposite a public park at least 0.3ha in size, or Town or Village Centre (refer above) and other defined locations, where subdivision occurs after the construction of dwellings in accordance with condition B6. (a)]

The 300 m² minimum lot size does not apply to the subdivision of land zoned E2 or E3 zoned land within the Bushland Edge Character Area. The subdivision of all E2 and E3 zoned land must be consistent with the requirements of Term B7 of the Concept Approval.

Generally within 5-10min walking distance of a bus stop.

Town and Village Centres

B4

Country town grid pattern with key vistas addressed. Active frontage to open spaces and walkability built into the design.

Urban scale, higher density and diverse built form resulting from pattern of use.

Mixed use with residential, retail, commercial, community and education uses.
Range of attached and detached residential

dwellings, shop-top, Axis and-urban sleeve/Nano dwellings, apartments, multi unit dwellings, retail and commercial premises, education and community buildings. Building frontages to address public space / public domain and promote passive surveillance and active streets.

2 - 4+ storevs.

District/Citywide park part of and adjacent to the centre. Direct frontage to open water/lakes and access to adjoining main creek corridors.

N/A

Generally within 5min walking distance of a bus

Country Residential

R5

An area of lower density housing linked with both landscape and built form controls to provide a connection with the adjacent rural areas whist still providing a level of amenity and passive surveillance to promote a healthy, safe and walkable neighbourhood.

Residential character with decreased density.

Residential.

Larger detached residential dwellings. Dwellings to be designed to address the street and enhance passive surveillance.

1 - 2 storevs.

Local/Neighbourhood parks generally within 5-10min walk.

2,000sqm

Generally within 5-10min walking distance of a bus stop.

Bushland Edge

R1, E3

A pattern of subdivision sensitive to the topography and bush setting and manlaging the visual impact. Where possible working with existing trees and integrating the bush landscape into the streets, open spaces and to the extent possible on private allotments.

Residential character with layout and setting that responds to bushland interface.

Residential

Detached residential dwellings. Dwellings to be designed to address the stredt, activate bushland edges and enhance passive surveillance with views over the bush.

House design will be required to accommodate site specific APZ requirements. Colour palettes for dwellings above RL 50 AHD to be sympathetic to natural vegetation tones to reduce the visual impact of development.

Benching is to be minimised with homes built with consideration of the terrain.

1 - 2 storeys.

Bushland setting within 5min walk. Local/Neighbourhood park generally withih 5-10min walk

300sqm in R1 zone;

The \$00 m² minimum lot size does not apply to the subdivision of land zoned E2 or E3 zoned land within the Bushland Edge Character Area. The subdivision of all E2 and E3 zoned land must be consistent with the requirements of Term B7 of the Concept Approval

Generally within 5-10min walking distance of a bus stop.

a) In accordance with the provisions of Condition B6, the minimum lot size in the General Residential Area (R1 zone) is 300sqm. The minimum allotment size can be varied for the subdivision of 'Integrated Housing' under the Exceptions to Development Standards — Other Development clause in the Major Development SEPP.

	A - Marshall Mount House	B - Northern Fringe	C - Southern Gateway	D - Western Fringe	E - B4 Illawarra Highway	F - Bush Edge Buffer
Land Use Zone	R1	R5	R5	R5	B4	R1 and E3
Urban Design Principles	Street pattern to facilitate long views to Marshall Mount House. An active frontage is required for allotments facing Marshall Mount House.	Street pattern to be sensitive to the topography. Active frontages required to open space corridors.	Streets designed to be sensitive with the topography and to where possible encourage active frontages and access to public open space areas.	This area is to be designed as sensitive buffer between the project and the adjacent rural lands to the west. Street pattern designed to provide an active edge for the project.	A series of Iconic gateway sites for both the Calderwood project and the Illawarra. A key requirement for these sites is to integrate and connect the project with Albion Park.	This area is to be designed as sensitive buffer between the project and the adjacent bush ecology of Johnston's Spur. Street and access trails to be designed with the topography to minimise cut and fill and site benching.
Character	Residential scale at a lower density sympathetic with the scale of Marshall Mount House.	Residential scale at a lower density sympathetic to the topography and the visual presence of this area from within the Calderwood Valley.	Low density residential with a high quality built-form and landscape character commensurate with its role as a gateway.	Low density residential with a rural feel.	Mid density mixed use area of key iconic importance signifying the gateway to both the project and the Illawarra (from the Southern Highlands).	Lower density residential with a bush feel.
Predominant Land Uses	Residential	Residential	Residential	Residential	Residential	Residential
Typical Built Form Typology and Design	Detached dwellings on generally larger allotments. Specific neighbourhood controls to be established in the Building and Siting Requirements document demonstrating specific fencing and built-form controls. Dwellings to be designed to address the streets and public open spaces to enhance passive surveillance.	Detached dwellings on generally larger allotments. Specific neighbourhood controls to be established in the Building and Siting Requirements document demonstrating specific fencing and built-form controls. Dwellings to be designed to address the streets and public open spaces to enhance passive surveillance.	Detached dwellings on larger allotments. Specific neighbourhood controls to be established in the Building and Siting Requirements document demonstrating specific fencing and built-form controls. Dwellings to be designed to address the streets and public open spaces to enhance passive surveillance.	Detached dwellings on larger allotments. Specific controls to be established in the Building and Requirements document demonstrating specific fencing and built-form controls. Dwellings to be designed to address the edge street and to enhance passive surveillance for adjacent rural landscape.	Generally attached residential and/or iconic built form. An iconic building element on the corner of the Illawarra Highway and the project entry road. Road frontages are to be active with entries, windows etc as well providing for passive surveillance of the adjacent open space corridors. A two storey built form is encouraged.	Detached dwellings on larger allotments. Specific controls to be established in the Building and Siting Requirements document demonstrating specific fencing and built-form controls. Benching is to be minimised with homes built with consideration of the terrain. Dwellings to be designed to address the edge streets and APZ trails and to enhance passive surveillance of the adjacent bush landscape. Specific APZ built form requirements to be met.
Typical Building Heights	1-2 Storiesstoreys	1-2 Storiesstoreys	1-2 storeysStories	1-2 storeysStories	1-2 <u>storeys</u> Stories	1-2 <u>storeys</u> Stories
Landscape	Landscaping of allotments to be sensitive to the character of the grounds of Marshall Mount House. Streetscape landscaping to build upon and integrate with general landscape character of Marshall Mount House.	Allotments at the edge of the project in this area to provide a 10m landscape buffer. Fencing on this boundary is to be screened with landscaping, hedges etc or rural in character.	Allotments are to generally provide a 10m landscape buffer to the Illawarra Highway. All fencing to be rural in character and privacy fencing within allotments is to be screened by landscaping.	The edge street is to have a widened verge with additional landscaping. Landscaping to be sensitive to the adjacent rural character. All fencing to be rural in character and privacy fencing within allotments is to be screened by landscaping.	Extensive high quality landscaping integrated with the project entry landscaping. A 6m min. average landscape buffer/setback to the Illawarra Highway with car parking generally screened from the Illawarra Highway and the project entry road. A 4m landscape buffer to the existing adjacent Albion Park allotments.	Extensive use of local bush plant species in both streetscapes and in private allotments. APZ requirements incorporated in the landscape design.
Open Space	Citywide Open Space and Corridor Open Spaces associated with Marshall Mount House.	Local/Neighbourhood park within 5min walk as well as corridor open spaces.	District Park generally located within a 5min walk. Corridor open spaces associated with Macquarie Rivulet.	Local/Neighbourhood park within 5min walk as well as corridor open spaces.	Local/Neighbourhood park within 5min walk as well as corridor open spaces.	Site CitCitywide bushland adjacent. Local/Neighbourhood park within 5min walk as well as corridor open spaces.
Minimum Lot Size	300sqm in the R1 zone (a) (b). The 300 m² minimum lot size does not apply to the subdivision of E2 or E3 zoned land. The subdivision of all E2 and E3 zoned land must be consistent with the requirements of Term B7 of the Concept Approval.	2,000sqm	2,000sqm	2,000sqm	N/A	300sqm in R1 zone (a) (b); The 300 m² minimum lot size does not apply to the subdivision of E2 or E3 zoned land. The subdivision of all E2 and E3 zoned land must be consistent with the requirements of Term B7 of the Concept Approval.
Public Transport	Generally within 5-10min walking distance of a bus stop.	Generally within 10min walking distance of a bus stop.	Generally within 10min walking distance of a bus stop.	Generally within 10min walking distance of a bus stop.	Generally within 5min walking distance of a bus stop.	Generally within 10min walking distance of a bus stop.

a) In accordance with the provisions of Condition B6, the minimum lot size in the General Residential Area (R1 zone) is 300sqm. The minimum allotment size each be for housing can be less than 300m² if the proposed development complies with the development standards contained with condition B6, varied for the subdivision of 'Integrated Housing' under the Exceptions to Development

b) In accordance with the provisions of Condition B6, residential lots less than 300sqm are permitted within the R1 zone but only where subdivision of these lots occurs after the construction of dwellings and are located where the dwellings directly adjoin or are located directly opposite the following: (i) public parks at least 0.3ha in size; or (ii) the Town and Village Centres.

1.4 Subdivision Pathways

The following table (**Table 4**) outlines the planning pathways available for subdivision on the Calderwood site. This table is in addition to the criteria listed in Condition B6 of the Concept Plan.

Table 4 - Subdivision Approval Process

4				
Approval Pathway	DA for Subdivision	DA for Subdivision with Building Envelope Plan (BEP)	DA for Integrated Housing (Integrated assessment with subdivision prior to construction of dwellings)	DA for ntegrated Housing
	Pathway A1	Pathway A2	Pathway B1	Pathway B2
Preferred Character Areas	General Residential Areas General Residential Areas with Location Criteria Town or Village Centres	General Residential Areas General Residential Areas with Location Criteria Town or Village Centres	General Residential Areas with Location Criteria Town and Village Centres	General Residential Areas with Location Griteria Town and Village Gentres
Application	Lots equal to or greater than 3002m² (existing DCS)	Lots less than 300m² and equal to or greater than 200m² in area, and with a frontage width equal to or greater than 6m	Dwelling construction involving detached or abutting dwellings on: Lots less than 225m², or Lots with a frontage width less than 9m	Dwelling construction involving common walls (ie. attached dwellings) on: Lots less than 225m², or Lots with a frontage width less than 9m
<u>Dwelling Plan</u> <u>Required</u>	As part of future DA or CDC	As part of future DA or CDC	Yes, as part of subdivision application	Yes, as part of subdivision application
Dwelling Design 88B restriction required	No	Yes, but only in accordance with BEP	Yes, only approved dwelling can be built	Yes, on y approved dwelling can be built
Timing of Subdivision (release of linen plan)	Pre-construction of dwellings	Pre-construction of dwellings	Pre-construction of dwellings	Post-construction of dwelling slab

1B Built Form Housing

Housing diversity is a key element of a vibrant and sustainable urban neighbourhood. A broad mix of housing types can be developed through the provision of a range of lot sizes and flexible development standards and by providing, where appropriate, the opportunity for some higher density housing types.

Flexible development standards enable responsiveness to evolving market demands, thereby facilitating housing supply and choice. Housing choice builds into the community the opportunity for various levels of affordability, house size and family structure to be accommodated. Allowing for a range of housing and building types also facilitates the creation of a well-integrated and cohesive community.

To achieve these outcomes Calderwood will provide a mixture of the following dwelling types:

- Standard Detached dwellings (predominantly front access);
 - Villas, Premium Villas, Courtyards, Traditional, Parkland,
- Alternative Detached dwellings (predominantly front access with some rear access options);
 - Smart Lots, Patio Homes, Town Homes, Terrace Homes, Dual
 Occupancy, Zipper Lots
- Attached dwellings (front and rear access);
 - Terrace Homes, Dual Occupancy, Manor Homes, Multi-Dwelling Homes, Strata Four Pack, Urban Loft, Urban Sleeve,/Nano Homes, Live Work and Shop Top dwellings, Secondary Dwellings
- Semi-detached dwellings (front and rear access);
 - Terrace Homes, Dual Occupancy, Manor Homes, Multi-Dwelling Homes, Strata Four Pack, Urban Loft, Urban Sleeve/Nano Homes, Live Work and Shop Top dwellings, Secondary Dwellings, Zipper Lots
- Integrated Housing
 - Town Homes, Terrace Homes, Dual Occupancy, Manor Homes, Multi-Dwelling Homes, Strata Four Pack, Urban Loft, Urban Sleeve/Nano Homes, Live Work and Shop Top dwellings
- Apartments.
- Standard Detached dwellings (front and rear access);
- Attached dwellings (front and rear access);
- Semi-detached dwellings (front and rear access);
- Duplex Dwellings
- ---Patio Homes
- —Strata Four Pack (rear access);
- Town Home dwellings;
- Urban Sleeve / Nano Homes (front and rear access);
- —Strata Four Pack (rear access);

- Semi-detached dwellings (front and rear access);
- Gallery Lot dwellings (front and rear access);
- Attached dwellings (front and rear access);
- Multi-dwellings (rear access);
- Manor Homes (rear access);
- Strata Studios;
- Axis dwellings;
- Urban sleeve dwellings;
- Live/Work dwellings;
- Shop-top dwellings;
- Apartments; and
- Secondary dwellings

The applicable controls for these dwelling types are outlined in **Table 45** and **Table 56**, which detail the requirements for a range of lot sizes, frontages and dimensions, private open space requirements, setbacks, height and car parking. Each dwelling typology is further generally described at Section 1.4 below.

These tables should be read in conjunction with the information provided below regarding each typology. The figures appended in **Appendix C** illustrate how these controls may be applied relevant to each dwelling type.

Further design guidelines for all home typologies are provided in Section 1.6, covering such issues as materials, landscaping, privacy, fences and walls, garages, safety, solar access, energy efficiency, servicing and adaptability.

Table 5 - Residential Development Controls

						Stan	dard Resider	ntial Allotme	nts		Int	tegrated Housing (e+f)	Integrated Housing (TC/VC only) (g)				
Allotment Type				Villa (n)	Smart Lot	Courtyard	Zipper Lots	Traditional	Parkland	Parkland+	Attached	Semi-detached	Detached	Axis Town Home	Urban- Sleeve <u>/Nano</u>	Live Work	Shop-Top	Apartments
Indicative Plan (refe	er to Appendix C)			<u>C1</u>	<u>C2</u>	<u>C3-5</u>	<u>C6</u>	<u>C7</u>	<u>C8</u>	<u>C9</u>	<u>C10-14</u>	<u>C15-17</u>	<u>C18-21</u>	<u>C22</u>	<u>C23</u>	<u>C24</u>	<u>C25</u>	<u>C26</u>
Size	Lot Areas (minimum to indicative ma	ax lot size)-	(sqm)	2 <u>25</u> 50-350	<u>225-</u> <u>350</u>	351- 450 <u>520</u>	<u>351-450</u> 520	451-899	900-1,499	1,500+	125-3 <u>50</u> 00 ea lot	125-350 ea lot	150 125- 300350	150-3 <u>50</u> 00	80+	180+	80+	N/A
	Typical Frontage		(metres)	7.5-20	<u>12.5-</u> 16	9-20	9-20	15-25	20m+	40m+ <u>18+</u>	5-20	5-20	7- 15 <u>16</u>	7.5-20m	8 <u>5</u> -20m	5-15m	6m min.	1 bed - 55sqm 2 bed - 80sqm
	Typical Depth		(metres)	18-30	16-22	25-30 24-32	24-32	25-40 24-40	30m+	40m+35+	18-30 15-30	15-30	12- <u>30</u> 25	12-30m	8-30m	12-30m	8m+	3 bed - 100sqm
		Building Frontage	(metres)	4.5	4.5	4.5	4.5	4.5	6	9	3	3	3	0	0	0	0	2
	Primary	Garage Frontage	(metres)	5.5	5.5	5.5	<u>5.5</u>	5.5	7	10	5.5	5.5	5.5	0.5	0.5	0.5	0.5	2.5
		Articulation Zone(o)	(metres)	1.5	<u>1.5</u>	1.5	<u>1.5</u>	1.5	2	2	1.5	1.5	1.5	N/A	N/A	N/A	-2.5	1
Setbacks		Building Frontage	(metres)	2	2	2	<u>2</u>	2	3	5	1.5	1.5	1.5	0	0	0	0	2
	Secondary	Garage Frontage	(metres)	5.5(k) 2	5.5(k)2	0.0(,	5.5 (k)	5.5	5.5	5.5	1.5	1.5	1.5	0.5	0.5	0.5	0.5	2.5
		Articulation Zone	(metres)	1.5	1.5	1.5 Om on one	1.5 0m on one	1.5	2	2	1.5 1	1.5 1	1.5 1	N/A	N/A	N/A	0	1
	Side	Ground	(metres)	0 <u>m on one</u> side /0.9 <u>m</u> on the other	one side /0.9m on the other0/	side /0.9m on the other 0/0.9	side /0.9m on the other 0/0.9	0.9 on one side /0.9 on the other1.5	1.5 <u>on</u> both sides/1.5	4m min (total combined 10m min both sides)	0/00m on both sides	0m on one side /0.9m on the other0/0.9	Om on one side /0.9m on the other 0/0.9	0	0	0	0	0.9
	Rear	Building Ground	(metres)	3	3	3	<u>3</u>	3	6	6	3	3	3	0	0	0	N/A	0.9
		Garage (Rear Loaded)	(metres)	0.5	0.5	0.5	0.5	0.5	N/A	N/A	0.5	0.5	0.5	0	0	0	0.5	0.5
	Zero Lot Line	Max. Total Combined	(metres)	13	<u>13</u>	13	<u>13</u>	0	0	0	N/A	N/A	13m	N/A	N/A	N/A	N/A	N/A
Open Space	Landscaping (m)		(% of Area)	10%	10%	15%	<u>15%</u>	20%(I)	35%	45%	10%	12%	12%	10%	NA	NA	NA	NA
орин орино	Private Open Space (h)		(% of Area or sqm)	16sqm	<u>16sqm</u>	24sqm	24sqm	24sqm	24sqm	24sqm	16sqm	16sqm	16sqm	16sqm	10sqm	16sqm	10sqm	10sqm
	Minimum Dimension		(metres)	3	<u>3</u>	4	4	4	4	<u>4</u> 6	3	3	3	3	3	2.5	2.5	2.5m
Height	Typical Height		Storeys	2	2	2	<u>2</u>	2	2	2	2-3	2	2	2-3	3-4	2-3	2-4	3-6
Studio Units	Secondary Dwelling (j) (0)		Applicable Locations	¥ <u>N</u>	<u>¥N</u>	Y	<u>Y</u>	Y	Y	Y	Υ	Y	Y	<u>¥N</u>	<u>¥N</u>	¥ <u>N</u>	<u>¥N</u>	¥ <u>N</u>
Parking		Min. Spaces Per Dwelling	(#)	1	2	1	1	2	2	2	1	1	1	1	1	1	1	1 bed - 1 space 2 bed - 1.5 spaces 3 bed - 2 spaces
		Vis	sitor (i) (#)	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	On Street	1 / 5 dwellings

Table 5 General Notes

- a) All building heights shown are typical. Height limit set by SEPP control.
- b) All dwellings including those dwellings in a mixed-use building and serviced apartments intended or are capable of being strata titled, are to demonstrate compliance with the State Environmental Planning Policy Building Sustainability
- c) Table to be read in conjunction with building envelope plans and built form typology plans Refer relevant Appendix.
- d) An irregular shaped allotment, or corner allotment may be considered in either a larger or smaller category if the area is within 4015%. This is to be indicated on the Building Envelope Plan.

Notes:

- e) Integrated Housing means dwellings and lots subject to a separate single application.
- f) Integrated Housing may be considered in other character areas (excluding Johnstons Spur) subject to set of objectives
- No building setback required for retail/commercial buildings in the Town Centre or Village Centre
- h) Private Open Space (POS) % can be made up of several individual open spaces so long as the min. dimension is achieved. This may include open space in the front setback where appropriate privacy screening and a connection to internal living spaces can be achieved. For Integrated Housing, the POS can be achieved with a combination of balcony and rooftop space and courtyard
- i) Visitor parking will generally be provided on-street.
- Secondary Dwellings ("Studio Units" / "Granny Flats") that are notto complying with State Environmental Planning Policy (Affordable Rental Housing) 2009 development are to have the following controls: minimum size of 45sqm; maximum size of 75sqm; landscaping requirements to accord with table above; height limit set by SEPP; no on site parking or POS required; setbacks to accord with building envelope controls in Appendix C
- k) This Garage setbacks on secondary street frontages may be 2.0m. in nominated locations on secondary street frontages
- I) For allotments greater than 600sqm, the Landscaping requirement is 25%.
- m) Landscaping is defined in the NSW Housing Code. Minimum 50% of the Landscaping is to be behind the front building line for Standard and Integrated Housing
- In accordance with the provisions of Condition B6, within the R1 zone, the minimum lot size for a Villa is to be 300sqm. The minimum allotment size can be varied for the subdivision of 'Integrated Housing' under the Exceptions to Development Standards Other Development clause in the Major Development SEPP. The lot size can be less than 300m² if it complies with the development standards contained within condition B6.
- n)o) A maximum of 50% of the articulation zone can be occupied by the building.

In Town Centre and Village Centre locations, secondary dwellings ("dual key apartments" / "Studio Units") that are not complying development are to have the following controls: minimum size of 24sqm (or 20sqm if shared facilities). All other controls are as set out in (i) above.

Table 6 - Residential Mix Table

				Standard	Residential A	llotments			Integ	rated Housir	ng (f+g)	Integrated Housing (TC/VC only)					
Allotment Type		Villa	Smart Lot	Courtyard	Zipper Lots	Traditional	Parkland	Parkland+	Attached	Semi- detached	Detached	Axis Town Home	Urban- Sleeve <u>/</u> <u>Nano</u>	Live Work	Shop-Top	Apartments	
Indicative Lot AreasSize	(sqm)	250 <u>225</u> -350	<u>225-350</u>	351-450	<u>351-450</u>	451-899	900- 1,499	1,500+	125- 300 <u>350</u>	125-350 ea lot	150- 125300350	150- 300 <u>350</u>	80+	180+	80+	N/A	
	General Residential Neighbourhood	(e) (f)	<u>(e) (f)</u>														
	Town Centre / Village Centre (d)																
Residential Character Areas	Parkland Node Areas																
	Country Residential					Max 25%											
	Bushland Edge (c)							(c)			(c)						
Land Use Zone(s)		R1(e) (f); B4	R1(e) (f); B4	R1; B4	<u>R1</u>	R1; B4	R1; B4	R1; R5(g); E3(c); B4	R1(e) (f); B4	R1(e) (f); B4	R1(e) (f); E3(c); B4	B4	B4	B4	B4	B4	
	A - Marshall Mount House																
Special Character	B - Northern Fringe							(g)									
Areas	C - Southern Gateway							(g)									
	D - Western Fringe							(g)									

General Notes

- a) Other Allotment Types can be provided to the total maximum of 10%
- b) An irregular shaped allotment may be considered in either a larger or smaller category if the area is within 10%. This is to be indicated on the Building Envelope Plan.

Notes:

- c) Development restricted to specific build areas within E3 zone. Integrated Housing only permitted as part of a Community Title scheme, or equivalent.
- No building setback required for retail/commercial buildings in the Town Centre or Village Centre
- e) In accordance with the provisions of Condition B6, within the R1 zone, the minimum lot size for a Villa is to be 300sqm. The minimum allotment size can be varied for the subdivision of 'Integrated Housing' under the Exceptions to Development Standards Other Development clause in the Major Development SEPP. 7
- f) In accordance with the provisions of Condition B6, residential lots less than 300sqm are permitted within the R1 zone but only where subdivision of these lots occurs after the construction of dwellings and are located where the dwellings directly adjoin or are located directly opposite the following: (a) public parks at least 0.3ha0.2ha in size and where the gradient is less than 1 in 10; or (b) the Town and Village Centres; or (c) within 800m of the Town Centre.
- g) The minimum lot size in Special Character Areas B, C and D is 2,000sqm.

1.41.5 Dwelling Types

The following sections provide a general description of the dwelling types referred to in **Table 45**.

Within the General Residential Area (R1 zone) housing will include a wide range of dwelling types. Detached dwellings, semi-detached dwellings and attached dwellings on lots less than 300 m² in area within the General Residential Area are subject to the provisions at Section 1.54.4 below.

1.4.1 1.5.1 Detached Dwellings

The detached housing typology includes a wide range of residential types and configurations, including loft type housing, gallery lots, villas and courtyard homes. The lot sizes suitable for this dwelling type range from 12550 square metres to greater than 2,0001,0002000+ square metres and may include houses with zero lot line setbacks on single side boundaries to houses with dual frontages with garages as part of the rear entry to the property. The broad range of lot sizes and associated development standards are aimed at providing the flexibility that permits the development of houses with varying degrees of affordability able to suit a range of family types.

Detached dwellings with rear access are to incorporate a primary pedestrian access from the street, where visitor parking may be located, and secondary access from the rear access way or driveway. Zero lot line dwellings may require maintenance easements, to be controlled through s.88B covenants. Detached dwellings are suitable for all Character Areas.

Within the B4 zone, dDetached dwellings on 150-250sqm lots will be provided in groups of two2 or more and subject to a single DA.

Typical configuration and building footprints for detached dwellings are shown in Figures C12 to C15C1-C9 & C18-C21 in **Appendix C**.





1.4.21.5.2 Semi-Detached Dwellings

Semi-Detached dwellings comprise two2 individual dwellings which share a common wall, providing an affordable alternative to traditional detached dwelling options. This form of housing is well suited to all areas of Calderwood, but is particularly well suited to (but not limited to) corner sites within the development pattern and areas of increased density such as the Town and Village Centres and Parkland Node Character Areas. Semi-detached dwellings have distinct entries for each dwelling which may be located on different street frontages.

The garage for each dwelling may also be accessed from different sides of the building, such as a primary and secondary street or can be rear loaded.

Semi-detached dwellings with rear access are to incorporate a primary pedestrian access from the street, where visitor parking may be located, and secondary access from the rear access way, lane or driveway. Semi-detached dwellings are suitable for all Character Areas. Semi-detached dwellings will be integrated and subject to a single DA.

Typical configuration and building footprints for semi-detached dwellings are shown in Figure C10 and C11 C15 -C17 in **Appendix C**.

1.4.3 1.5.3 Attached Dwellings

Attached housing includes traditional row houses, nano homes, terrace homes (front and rear loaded), dwellings with ground floor home business uses, and shop-house style housing with ground floor retail/commercial uses.

Attached dwellings are characterised by buildings built to a zero lotzero-lot line on both side boundaries and may provide for parking with a rear loaded garage accessed from a mews, street, parking court or a driveway. Attached dwellings with rear access are to incorporate a primary pedestrian access from the street, where visitor parking may be located, and where possible a secondary access from the rear access way, lane or driveway. Attached dwellings with front access may be provided as an opportunity to increase densities without always requiring a rear access lane, to enable the integration of private open space with living areas, and to provide the opportunity to deliver housing choice and affordability.

Attached housing may be provided in groups of two2 or more dwellings if such groups are the subject of a single DA. Where a zero lotzero-lot line is created for attached housing adjacent to another lot, a maintenance easement will be required on the affected property to be controlled through s.88B covenants.

Attached housing is suitable for all Character Areas, but is particularly well suited to areas of increased density such as the Town and Village Centres and Parkland Nodes.

Typical configuration and building footprints for attached housing are shown in Figure C8 and C9C10-C14 in **Appendix C**.



1.4.41.5.4 Integrated Housing

Integrated Housing refers to dwelling types that require a single-DA for both subdivision to create the allotment and construction of the dwelling. These include attached dwellings-on 125-300m²-350m²-lots, semi-detached dwellings on 150125-300m²-350m²-lots.

Under the provisions of Condition B6, residential lots less than 300sqm are permitted within the General Residential Area (R1 zone), "but only where subdivision of these lots occurs after the construction of dwellings and are located where the dwellings directly adjoin or are located directly opposite the following:

- (a) public parks at least 0.2ha in size and where the gradient of the site is less than 1 in 10, or
- (b) the Town and Village Centres in the B4 mixed use zone, or
- (a)—where the dwellings are within the 800m walking catchment of the Town Centre public parks at least 0.3ha in size, or
- (b) the Town and Village Centres" (adjoining or directly opposite public parks at least 0.3ha in size)
- (c) where the dwellings are within 800metres of the proposed Town Centreless

The consent authority may consider issuing a development consent for integrated development which allows for the issue of a Subdivision Certificate before the construction of the dwellings is complete, subject to the following criteria being imposed as a condition of consent allowing the early release of the subdivision certificate:

- 1. The completion of all civil/ subdivision works to the satisfaction of Council's Construction Engineer.
- The submission of a valid Section 73 Compliance Certificate issued under the Sydney Water Act 1994 confirming satisfactory arrangements have been made for the provision of water and sewer services.
- 3. The submission of a valid notification of arrangement certificate from Endeavour Energy or other energy provider confirming satisfactory arrangements have been made for the provision of electrical services.
- 4. The submission of a valid telecommunications infrastructure provisioning confirmation certificate from the relevant telecommunications provider authorised under the Telecommunications Act confirming satisfactory arrangements have been made for the provision of telecommunication services.
- If required by a condition of consent; written confirmation from the relevant consent authority confirming that all applicable developer contributions have been paid.
- 6. The creation of a restriction on the title of all incomplete lots/ dwellings prohibiting development aside from the completion of the dwellings in accordance with the issued development consent. Separate development applications for dwellings on the lots created will not be accepted.
- 7. Where the dwellings have been partially constructed; the submission of a survey plan prepared by a Registered Surveyor confirming the location of the dwellings in relation to the proposed boundaries demonstrating compliance with the issued development consent.
- The payment of a security bond to guarantee the completion of building works. The bond amount will be determined as part of Council's consideration of the early release application (above).
- The payment of all outstanding Council fees associated with the subdivision component of the development, including a security bond application fee.

The above control does not apply within the B4 zone.

Given their they are smaller lots, integrated housing products are intended to be predominantly located in the Town and Village Centres and adjeining or directly opposite public parks at least 0.3ha in size, where higher densities and a more urban scale are envisaged in residential areas where a higher level of amenity or outlook is provided such as opposite public parks and within walking distance of the Town Centre.

However, integrated housing could also be considered in other character areas. Where proposed in other areas, consideration should be given to the following locational and design criteria:

- Integrated housing is most suitable for corner lots in order to create a built form that positively addresses both street frontages;
- Integrated housing is most suitable for lots oriented north south on an eastwest street to maximise solar access to living areas and private open space;
- —There should be consistency in architectural language, through built form, colour, texture, materials, landscape and fencing between the dwellings, however,
- identical repetition of elevations on any 2 adjoining dwellings is to be avoidedminimised; and

All frontages to the street should be articulated with a variety of design elements such as windows, balconies and verandahs, and adequate landscape treatment provided.





1.4.51.5.5 Studio Units Urban Loft

Detached, semi detached and attached dwellings with rear access may also incorporate a studio unit above the ground level garage at the rear of the lot in appropriate locations in order to provide additional housing diversity. They also provide the opportunity to increase passive surveillance opportunities of streets.

Studio units Urban Loft dwellings should:

- Provide a varied elevation where attached;
- Have a minimum size of 45 m² but contain no more than one bedroom;
- Have 258m² of private open space (as courtyard or balcony)
- Provide 1 on street car space;
- Be a maximum of 1 floor above garage; and
- Meet BCA standards.



1.4.61.5.6 Axis Town Home Dwellings

Axis Town Home dwellings will:

- Provide an open plan style of home that provides occupants the opportunity to work and live within the same building.
- Generally address streets including dual frontages in order to contribute to the passive surveillance of these spaces; and
- Be of a contemporary urban character.

Axis dwellings may be provided in groups of two2 or more dwellings if such groups are the subject of a single DA. _Axis_Town Home_dwellings are suitable in the Town and Village Centres Character Area. Typical configuration and building footprints for warehouse_Town Home_dwellings are shown in Figure C16-C22 in Appendix C.

1.5.7 Urban Sleeve / Nano Dwellings

The Urban Sleeve/Nano dwellings will generally be located in the Town and Village Centre Character Area adjacent to non-residential built form, shielding inactive frontages from areas of public access including streets, lanes and parking lots with the intention of activating these frontages and creating more diverse centres. These building typologies will also provide opportunities for local business and enterprise.

Urban sleeve / Nano dwellings provide additional options for occupants to live and work within the same dwelling with a larger, more formalised work space on the ground level and private uses on upper levels. In some instances urban sleeve / nano dwellings will have dual frontages, and if so, garages will be located on the secondary frontage. Private open space may be located on terraces above street level.

Groups of Urban Sleeve / Nano dwellings will be the subject of a single DA. Subdivision of groups of Urban Sleeve / Nano Dwellings is to be approved as part of the single DA. Typical configuration and building footprints for urban sleeve dwellings are shown in Figure C23 in **Appendix C**.





1.5.8 Live/Work Dwellings

Live/Work Dwellings will:

- Minimise the need for private vehicle use by integrating living and working uses.
- Be appropriately located, generally within the Town and Village Centres Character Area with the intention of supporting functional, liveable, and safe live/work environment.
- Encourage building design that emphasises the pedestrian realm and interface with the street through reduced front setbacks and well articulated frontages.
- Be urban in character and add to the diversity and mix of allotments, creating variety and interest in the streetscape and increasing housing choice to a broad range of families.
- Encourage flexibility of use which will accommodate either residential or business uses.

Live/work dwellings are proposed to accommodate a wide array of uses.

Uses that could affect the amenity of surrounding residential areas with noise, vibration or odour are strongly discouraged. Potential amenity impacts are to be considered during the assessment of any development application for a live/work dwelling.

<u>Typical configuration and building footprints for live/work dwellings are shown in Figure C24 in Appendix C.</u>



1.5.9 Shop Top Dwellings

The shop top dwelling typology will:

- Be provided above retail and other commercial uses in the Town and Village
 Centres Character Area to add to the activity and vitality within this area.
- Have a range of dwelling sizes to cater for a variety of households and provide housing affordability options.
- Have a distinct and clear entry for the dwellings, located on the primary street frontage wherever possible to add to the activity in the locality.
- Locate Private Open Space on terraces and balconies above street level and in locations that can add to the passive surveillance of the locality.

<u>Typical configuration and building footprints for live/work dwellings are shown in Figure C25 in Appendix C.</u>

1.4.71.5.10 Multi Dwelling (MDH)

Multi-dwelling housing means three or more (attached or detached) dwellings on one lot of land (not an individual lot in a strata plan or community title scheme). Each dwelling has access at the ground level, but does not include a residential flat building.

Strata Four Pack

The Strata Four Pack typology includes four separate strata titled dwellings on the one lot. The design involves a ground storey with two apartments and a second storey with two apartments. Apartments are generally two bedrooms, with each dwelling having a single rear loaded garage.

<u>Typical configuration and building footprints for live/work dwellings are shown in Figure C14 in Appendix C.</u>



Manor Home

Manor homes are similar in style to the Strata Four Pack housing typology, except with only three dwellings, and are therefore classified as multidwelling housing. These are best suited to a corner lot where frontages can be to either street front. Access to each dwelling is on the ground floor. Provision of no more than 3 separate garages on site and these are typically accessed from a rear lane.

<u>Typical configuration and building footprints for live/work dwellings are shown in Figure C13 in Appendix C.</u>



1.4.81.5.11 Gallery Lots/Duplex Lots/Dual OccupancyPatio Homes

Gallery <u>Duplex Dual Occupancy</u> Lots comprise two individual residential dwellings, either detached or semi attached, on a single larger corner site within the subdivision development pattern, and areas of increased density such as the Town and Village Centres and Parkland Node Character Areas.

Gallery Dual Occupancy Duplex dwellings have distinct entries for each dwelling which may be located on different street frontages, creating a better consistent streetscape on both frontages. The garage for each dwelling may also be accessed from different sides of the building, such as a primary and secondary street or can be rear loaded. Gallery Dual Occupancy Duplex dwellings with rear access are to incorporate a primary pedestrian access from the street, where visitor parking may be located, and secondary access from the rear access way, lane or driveway.

Gallery <u>Dual Occupancy Duplex</u> dwellings are suitable for all Character Areas. Gallery <u>Dual Occupancy Duplex</u> dwellings will be integrated and subject to a single DA. Gallery <u>Dual Occupancy Duplex</u>. Lots may be further subdivided. Lots are dual occupancy development meaning the development of two dwellings on a single allotment which may not be further subdivided.

Duplex Lots comprise two individual semi-attached residential dwellings on mid-block sites within the subdivision development pattern, and areas of increased density such as the Town and Village Centres and Parkland Node Character Areas. Duplex dwellings have distinct entries for each dwelling with at least one entry fronting the street. The second dwelling entry may be obscured from street view or accessed from the rear where the site is rear loaded. Similarly, the garage for each dwelling may be accessed from the same street or from different streets when the site is rear loaded. Duplex dwellings with rear access may incorporate a primary pedestrian access from the street, where visitor parking may be located, and secondary access from the rear access way, lane or driveway.

Duplex dwellings are suitable for all Character Areas. Duplex dwellings will be integrated and subject to a single DA. Duplex Lots may be further subdivided. Typical configuration and building footprints for <u>Dual Occupancy Duplex gallery</u> dwellings are shown in <u>C15-C17</u>Figure D3 and D4 in Appendix <u>C</u>D.





1.4.91.5.12 Apartments

Apartments are appropriate in the Town and Village Centres Character Area on sites where a greater density is appropriate and desirable for the creation of a more balanced and vibrant community. Apartments are suited to nodal

areas of higher amenity and locations in proximity to parks, bus stops, amenities and services.

The provision of apartments allows the creation of housing options for people looking for a low maintenance, urban, and potentially more affordable housing alternatives to traditional detached house forms. Apartments can be provided in a range of sizes from one_bedroom apartments up to three plus bedroom family apartments.

The scale of apartment buildings is to be compatible with the mass and character of adjacent building types. Articulation of facades is required to mitigate the bulk and mass of apartment buildings.

Apartments are to be designed to accommodate parking on site, including underground where appropriate. Typical configuration and building footprints for apartments are shown in Figure C2 $\underline{6}\theta$ in **Appendix C**.



1.4.10 Urban Sleeve Dwellings

The Urban Sleeve dwellings will generally be located in the Town and Village Centres Character Area adjacent to non-residential built form, shielding inactive frontages from areas of public access including streets, lanes and parking lots with the intention of activating these frontages and creating more diverse centres. These building typologies will also provide opportunities for local business and enterprise.

Urban sleeve dwelling provide additional options for occupants to live and work within the same dwelling with a larger, more formalised work space on the ground level and private uses on upper levels. In some instances urban sleeve dwellings will have dual frontages, and if so, garages will be located on the secondary frontage. Private open space may be located on terraces above street level.

Groups of Urban Sleeve dwellings will be the subject of a single DA. Subdivision of groups of Urban Sleeve Dwellings is to be approved as part of the single DA. Typical configuration and building footprints for urban sleeve dwellings are shown in Figure C17 in **Appendix C**.

1.4.11 Live/Work Dwellings

Live/Work Dwellings will:

- Minimise the need for private vehicle use by integrating living and working uses.
- Be appropriately located, generally within the Town and Village Centres Character Area with the intention of supporting functional, liveable, and safe live/work environment.
- Encourage building design that emphasises the pedestrian realm and interface with the street through reduced front setbacks and well articulated frontages.
- Be urban in character and add to the diversity and mix of allotments, creating variety and interest in the streetscape and increasing housing choice to a broad range of families.
- Encourage flexibility of use which will accommodate either residential or business uses.

Live/work dwellings are proposed to accommodate a wide array of uses. Uses that could affect the amenity of surrounding residential areas with noise, vibration or odour are strongly discouraged. Potential amenity impacts are to be considered during the assessment of any development application for a live/work dwelling.

Typical configuration and building footprints for live/work dwellings are shown in Figure C18 in Appendix C.

1.4.12 Shop Top Dwellings

The shop top dwelling typology will:

- Be provided above retail and other commercial uses in the Town and Village Centres Character Area to add to the activity and vitality within this area.
- Have a range of dwelling sizes to cater for a variety of households and provide housing affordability options.
- Have a distinct and clear entry for the dwellings, located on the primary street frontage wherever possible to add to the activity in the locality.
- Locate Private Open Space on terraces and balconies above street level and in locations that can add to the passive surveillance of the locality.

Articulation of building frontages over the public footway may be permitted subject to there being a suitable agreement with Council. Building articulation and street tree placement would be coordinated to remove potential conflict.



1.4.131.5.13 Secondary Dwellings

Secondary dwellings are permissible in the -R1 General Residential, R5 Large Lot Residential and B4 Mixed Use zones within the Caldwerwood site under the Major Development SEPP.

Secondary dwellings, or "granny flats", are also subject to the provisions of the State Environmental Planning Policy (Affordable Rental Housing) 2009 (or "AHSEPP"). The AHSEPP applies across NSW, including Calderwood.

A secondary dwelling can provide a form of affordable rental housing. It is a self-contained dwelling that has been established in conjunction with another dwelling (the "principle dwelling") and is on the same lot of land as the principle dwelling. The secondary dwelling may be located within, or attached to, or separate from the principle dwelling.

Secondary dwellings may be provided as *complying development* or via the *development application* (DA) process. For more details, reference should be made to the relevant Information Sheet, produced by the NSW Department of Planning.

Under a DA process, the local council will assess the application against the AHSEPP controls, the controls contained in this Development Control Strategy (DCS), and the general merits of the proposal.

Under the AHSEPP the following general controls apply:

- Site area: The consent authority cannot refuse consent on the grounds of site
 area if the site area is at least 450sqm. However, a consent authority can
 consent to development of a secondary dwelling on a site of less than
 450sqm; and
- Parking: the consent authority cannot refuse the application if no additional parking is to be provided on the site.

Under this DCS secondary dwellings may be developed on all allotments over 300sqm in both the R1 or R5 residential zones and on all residential allotments over 125sqm in B4 zoned land, subject to the parameters identified in Table 4.

Secondary dwellings can be accommodated within the typical configuration and building footprints as shown the relevant figures in **Appendix C**. Secondary dwellings, provided in the form of studio flats above rear garages, are encouraged at the end of each laneway and in the midpoint of each laneway.

1.51.6 General Housing Siting and Design Controls

General planning and design controls for residential dwellings are provided in the following sections. These controls are relevant to all residential development in Calderwood. In addition, under the provisions of Condition B6, colour palettes for dwellings in areas above RL 50 AHD are to be "sympathetic to natural vegetation tones to reduce the visual impact of development".

1.5.11.6.1 External Built Form and Materials – Private Domain

Dwelling facades should display a variety of materials, colours and shading structures, with garages integrated into the overall architectural form and design.

Building and Siting Guidelines to be administered by the developer will address materials and finishes for use for such items as fences, walls, garages, paving, planting, roofs and building colour schemes. These guidelines will be enforced under the developer covenants, and details of external materials and finishes are to be submitted with a DA. Further detail on specific elements is also provided in the following sections.

1.5.21.6.2 Laneways

- Passive surveillance along the laneway from secondary dwellings, studio dwellings and rooms of the principal dwelling or lofts over rear garages are encouraged. Secondary dwellings or studio dwellings are preferred at laneway and street corners where the additional dwelling can be addressed and serviced from the street.
- All lot boundaries adjoining the lane are to be defined by fencing or built form. The garage setback to the lane is minimal (0.5m) to allow overhanging eaves or balconies to remain within the lot.
- Planting and walls adjacent to driveways must not block lines of sight for pedestrians, cyclists and vehicles.



1.5.31.6.3 Landscaping

Objectives

- Landscaping is to contribute to effective management of stormwater, biodiversity, energy efficiency and to improve visual amenity.
- Promote sustainability design principles through the use of native species of flora and low maintenance landscaping.
- Retain, modify and integrate existing landscape elements such as vegetation and topographic features, where appropriate, in the design of new development.
- To create the desired streetscape character.
- To ensure a balance between built form and landscaped elements in residential areas.

Controls

- Trees planted on the north side of private open space areas and habitable rooms are encouraged to be deciduous.
- A minimum of one tree is to be provided where possible within the front setback area of every standard residential allotment. This may include existing trees that are to be retained within the front setback area.
- Planting of vegetation at the front of higher density development must consider the need for passive surveillance. Excessively dense vegetation that creates a visual barrier should be avoided. <u>Landscaping shall be provided in</u> the front yard, and where possible, in rear laneways.
- A Landscape Plan is to be lodged with all DAs for new dwellings, and is to provide the following details:
 - the location of any existing trees on the property, specifying those to be retained and those to be removed; and
 - the position of each shrub and tree species proposed to be planted. Each plant is to be identified by a code referring to a plant schedule on the plan.

1.5.41.6.4 Visual and Acoustic Privacy

Objectives

- Ensure buildings are designed to achieve acceptable levels of visual and acoustic privacy.
- Protect visual privacy by minimising direct overlooking of habitable rooms and private open space.
- Contain noise within dwellings and minimise noise from outdoor areas.

- Direct overlooking of main habitable areas and private open space should be minimised through building layout, window and balcony location and design, and the use of screening devices, including landscaping.
- As far as practicable the windows of habitable rooms shall be screened or adequately separated from walkways, footpaths, communal areas, driveways, windows of other dwellings and balconies above. Courtyard walls, walls of

the building, screen walls and the like are an acceptable method of screening of windows.

- Where overlooking of habitable rooms and private open space cannot be avoided, additional visual privacy may be achieved by:
 - offsetting adjacent windows;
 - fixed window screening;
 - providing sill heights of at least 1.5 m above floor level; or
 - providing fixed obscure glazing.
- The design of attached dwellings must minimise the opportunity for sound transmission through the building structure, with particular attention given to protecting bedrooms and living areas.
- Living areas and service equipment must be located away from bedrooms of neighbouring dwellings.
- In attached dwellings, bedrooms of one dwelling are not to share walls with living spaces or garages of adjoining dwellings, unless it is demonstrated that the shared walls and floors meet the noise transmission and insulation requirements of the Building Code of Australia.
- Noise sensitive areas are to be located away from noise emitting sources, or mitigation provided to meet approved standards.

1.5.51.6.5 Fences and walls

Objectives

- To ensure fences and walls improve amenity for existing and new residents and contribute positively to streetscape and adjacent buildings.
- To ensure boundary fences and walls between allotments provide visual privacy without affecting the amenity of those allotments in terms of views, sunlight and air movement.
- To ensure materials used in fences and walls are in keeping with the existing streetscape character and character of the dwelling type.
- To ensure fences and walls are sympathetic to the topography.

- Front fences and walls should not be higher than 1.5 metres. However, front fences and walls can be built up to 1.8 metres in height for noise attenuation if proven necessary.
- The design and materials of front fences and walls is to be compatible with the desired character of the streetscape.
- Side and back fences and walls can be built up to 1.8 metres in height to achieve privacy for the rear yard.
- Fencing fronting along a residential lot secondary frontage or public open space is required to be:
 - Maximum height 1.8 metres including retaining.
 - Minimum 100mm x 100mm expressed square posts, with either vertical or horizontal slats in either timber, mod-wood or metal in a colour to complement the home.

 Corner Lot fencing must finish a minimum of 4 metres behind the front wall of the home.





1.5.61.6.6 Garages

Objective

Design of garages must not dominate the frontage of the housedwelling.

- Garage location principles to be consistent with typical building envelope and typology plans included in Appendix C
 - For lots that have a street frontage width of between 8m and 10m inclusive, garaging may comprise a single/tandem garage either at the front, or accessed from a rear lane if provided.
 - For lots that have a minimum street frontage width of 10m or greater, garaging may comprise either a single/tandem garage or double garage either at the front, or accessed from a rear lane if provided.
 - Dwelling designs with double garages for lots that have a street frontage width of at least 10m, and under 11m must be 2 storeys to enable the garage frontage to be recessed under a balcony and/or upper level facade to reduce garage dominance.
 - Dwelling designs with double garages for lots that have a minimum street frontage width of 11m or greater are permitted to be single storey.
 - Garages should not take up more than 50 percent of the building frontage for lots 12m wide or less, unless the dwelling is integrated housing.
 - For lots with a street frontage width of 8m or less, all garaging is to be accessed from the rear lane (if rear laneway is adjacent). If no rear lane is provided, a single/tandem garage is permitted at the front. Front access to be fully integrated into dwelling façade.
 - <u>Dwellings located in R1 zone</u>: For lots with a street frontage width of 8m or less, a rear lane shall be provided to facilitate all garaging access. No front access permitted.
 - <u>Dwellings within B4 zone Town Centre and Village Centre</u>: For lots with a street frontage width of 8m or less, all garaging is to be accessed from the rear lane (if rear laneway is adjacent). If no rear lane is

provided, a single/tandem garage is permitted at the front. Front access to be fully integrated into dwelling facade.

- Materials and colours should blend the garage doors into the main building.
- For 2 storey dwellings, <u>habitable</u> rooms with windows or balconies should be built above garages where possible.
- Garages are to be limited to a maximum capacity of two cars, with tandem garages permitted.
- Garages are to be set back behind the front most element of the house and fully integrated into the front facade.
- No car ports or structures are permitted forward of garages.
- For residential allotments 1,500 square metres<u>and greater</u>, a third garage is permitted if it is screened from the street.
- No private residential vehicle access permitted directly off Escarpment Drive.
- No private residential vehicle access permitted directly off Calderwood Road opposite Town Centre core.

Refer to Appendix C for typical garaging arrangements.





1.5.71.6.7 Safety

Objectives

- To ensure that the siting and design of buildings and spaces contributes to the actual and perceived personal and property safety of residents, workers and visitors and decreases the opportunities for committing crime in an area.
- To ensure development encourages people to use and interact in streets, parks and other public places without fear or personal risk.
- To increase the perception of safety in public and semi-public space including streets and parks.
- To maximise actual and perceived safety within the community.
- To encourage the incorporation of principles of crime prevention through urban design and landscaping into all developments.

Controls

- Dwellings should be designed to overlook streets and other public or communal areas to provide casual surveillance.
- For residential dwellings, roller shutters are not to be used on doors and windows facing the street. Security railings must be designed to complement the architecture of the building.
- Pedestrian and communal areas are to have sufficient lighting to ensure a high level of safety. These areas must be designed to minimise opportunities for concealment.
- All developments are to incorporate the principles of Crime Prevention
 Through Environmental Design. When assessing applications, the_consent
 authority must give consideration to Planning NSWDepartment of Planning
 and Environment guidelines for Crime Prevention and the Assessment of
 Development Applications, or its equivalent.
- Avoid the creation of areas for concealment and blank walls facing the street.

1.5.81.6.8 Solar Access

Objective

Dwellings should be designed to maximise solar access.

Controls

- For private residential dwellings, aAreas of private outdoor space should receive at least 3 hours of sunlight between 9am and 3pm at the winter solstice.
- For integrated developments 70% of the total number of dwellings should receive 3 hours of sunlight on winter solstice to either the principal private open space, private balcony (min width of 2.5m) or habitable room.
- _____Dwellings should also be designed to avoid overshadowing of adjacent properties and to protect sunlight access to any habitable room or private outdoor living space of adjacent buildings to less than 4 hours between 9am and 3pm at the winter solstice (21 June).

3

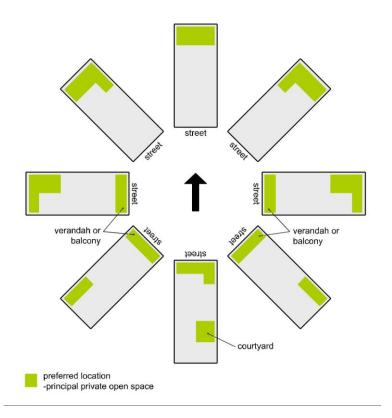


Figure 5 – Preferred private open space location principles

1.5.91.6.9 Energy and Water Efficiency

Objectives

- To ensure ecologically sustainable development.
- To incorporate best practice energy management and implement energy efficient principles to fulfil several objectives:
 - to maximise the benefits of passive solar design;
 - to improve the energy efficiency of dwellings;
 - to minimise the need for mechanical heating and cooling appliances;
 - to promote the installation of greenhouse responsive hot water systems and other energy efficient appliances; and
 - to maximise the use of natural light and limit energy use for interior lighting.
- To minimise unnecessary water production during design and construction.
- To recycle, reuse and reprocess waste locally.
- To minimise adverse impacts on air quality.

- BASIX Certificate is to accompany DAs for new dwellings.
- The design of dwellings should minimise heat loss and the absorption of heat through measures such the use of insulation in walls and roofs and by limiting the size of windows on the western facades of buildings.

- Dwellings should be designed to allow cross ventilation, where appropriate, by positioning windows and doors opposite each other within rooms and providing fans and alternative forms of mechanical ventilation (other than air conditioners).
- Dwellings should be designed to face living spaces to the north, sleeping areas to the east or south, and utility areas to the west or south.
- Dwellings should be designed with north facing windows.
- Dwelling design should consider shading of north, east and west facing windows through use of elements such as shading devices, including eaves, verandas, pergolas, and awnings.
- Dwellings should utilise energy efficient fixtures such as solar hot water systems or star rated appliances.
- Dwellings should be designed so that:
 - hot water systems are located as close as possible to wet areas;
 - wet areas are clustered to minimise pipe runs;
 - external clothes drying areas are provided, with access to sunlight and breezes; and
 - reflective or light-coloured materials are used and/or dwellings are painted in light colours.

1.5.101.6.10 Servicing

Objectives

- To ensure that adequate provision is made for site facilities.
- To ensure that site facilities are functional and accessible to all residents and are easy to maintain.
- To ensure that site facilities are thoughtfully integrated into development and are unobtrusive.

Controls

 Development must demonstrate that the design takes into account waste storage and collection without reducing the amenity of the dwelling or neighbouring lots.

1.5.11 Adaptability

Objective

 To provide practical and flexible housing and urban spaces that are designed and constructed to ensure durable and long-term adaptability to maximise access and liveability, consistent with AS 4299.

Controls

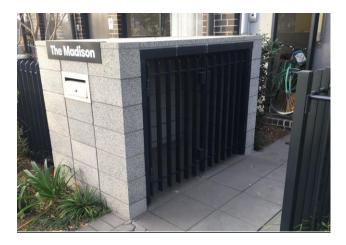
- Residential dwellings shall be designed with key design features that may achieve:
 - direct access;
 - spaces for car parking;
 - adequate access and circulation widths; and
 - main facilities at ground floor level.

1.5.121.6.12 Waste

Objective

 To support active waste management and waste minimisation, particularly during construction.

- <u>Active wA Construction Waste Mmanagement Plan including proposed and</u> waste minimisation details strategies, are to be provided with relevant detailed applications.
- Household waste management post construction requires all dwellings to
 provide unobstructed bin presentation areas large enough to accommodate
 2x 240L bins. The minimum dimensions required are 2m wide by 1m deep.
 The proposed area must not be obstructed by driveway access.
- Each dwelling subject to an integrated development application is required to provide permanent bin storage locations at side, in front and/or within garage recess.
- <u>Dwellings with rear lane access shall have household waste collection from lane.</u>



1.5.13 1.6.13 Elevation (dwellings above RL 50 AHD)

Objective

 To ensure colour palettes for all dwellings above RL 50 AHD are sympathetic to natural vegetation tones and thus reduce the visual impact of development.

Controls

- Dwellings on land on or above RL 50 AHD should be designed to avoid colour palettes that are unsympathetic with their natural setting.
- Key design features should aim to reduce the visual impact of development.
- Specific Building and Siting Guidelines (BSGs) will be prepared for dwellings above RL 50 AHD to be administered by the developer and will address materials and finishes for items that may be visually prominent such as building colour schemes, <u>fencing</u>, <u>retaining</u> walls, garages, planting and roofs. These guidelines will be enforced under the developer covenants.
- Details of external materials and finishes are to be in accordance with the BSGs and submitted with a DA where relevant.

To assist the application of Condition C12, all residential development land above RL 50 AHD has been identified in **Figure 2** (Residential Character Areas Map), where the above controls will apply.

1.6.14 -Lot Benching

Objective

 To ensure that the design of dwellings takes into account the natural topography of the site and seeks to minimise lot benching as much as possible :

- Where the slope of the building envelope exceeds 1 metre. Split level designs are to be used to address the slope.
- The minimum step in a split slab is 340mm equivalent to two steps (refer Figure 6).
- For all housing on sloping land, the dwelling must contain a built form
 presence (other than the roof) to the street. For example, where the land

- falls away from the street, the top floor of the home must be above or at level with the street at the highest point of the block.
- If the site requires a split level design, alternative building methods such as elevated construction, split slab construction, brick build up (DEB) construction or a combination of these are to be implemented to minimise the amount of earthworks necessary and the impact on neighbouring land.

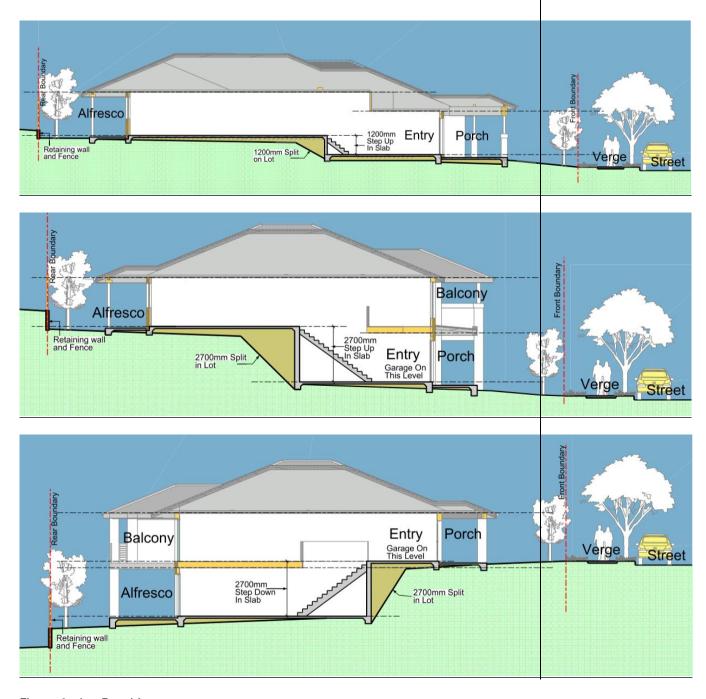


Figure 6 – Lot Benching

1C Non-Residential Built Form

1.61.7 Non-Residential Buildings (Town and Village Centres)

It is noted that not all proposed land uses in the B4 zone Mixed Use Town and Village Centres will be commercial, retail or community uses, with residential dwellings including apartments, terraces and other small lot and medium density dwellings also incorporated in this zone to ensure a vibrant and convenient centre, with strong accessibility to supporting amenity. Where such development takes place several principles will be observed in order to enhance the urban design outcomes in the centres. These principles are listed below.

Mix of Uses

A range of uses including retail, office, community, educational, residential and recreational uses may be considered within a mixed_use building. Mixed uses can be arranged horizontally, vertically or in a combination. Horizontal mixed-use development in the Town and Village Centres will locate retail and commercial uses along street frontages with residential use to the rear or along secondary streets and accessways. Vertical mixed-use development will locate retail and commercial uses at street level, so as to maximise street activation, with commercial and residential uses located on upper levels. It is noted that not every building in the town and village centres need be a mixed use building. Residential flat buildings and other types of residential accommodation are also permissible in the B4 Mixed Use zone and will also be provided within those areas.

Conflict between uses will be minimised through appropriate siting or via the application of appropriate building materials to eliminate noise transmission and other conflicts. Loading bays, site storage and access points for waste collection will be located away from public spaces, streets and general residential areas to minimise amenity issues associated with cooking exhausts, waste, plant rooms and service vehicles.

Street Frontages/Entrances

Non-residential uses will be located on the street with ground floor uses and upper floor windows facing the street to activate these edges and provide passive surveillance. Primary entrances will generally be provided off the main street. Access points will be compatible with the overall façade of the building but will be clearly defined for vehicles and pedestrians.

Retail buildings will be designed to address the street to ensure high quality pedestrian connectivity between all uses in the Town and Village Centres. Larger stores may be sleeved smaller specialty shops and offices with frontages to surrounding streets. Vehicle access will be provided away from the main street frontage. Parking and passenger drop off will be located adjacent to building entrances.

Building Form

Buildings will be designed to face the street with particular attention paid to the rear of the building and its relationship to accessways and adjacent buildings. Built form should relate to the public domain and its form and scale. Façade treatment should avoid the use of blank walls and should break up excessive bulk and scale. The façade of large buildings will be articulated in terms of volume and surface treatments, to reflect the existing scale of the street and adjacent development.

Town and Village Centre Built Form and Streetscape shall reflect the local character of the Calderwood Valley Development, providing a strong visual link to the surrounding natural environment, the Illawarra Escarpment and the riparian corridors.

Building Depth

Building depth should be adequate in order to maximise natural light, ventilation and circulation unless specific building use requires otherwise. This depth will allow optimum circulation and room layout while minimising artificial lighting at the building core.

Carparking

Carparking will be shared and collocated where possible to minimise land take and enhance walkability and maximise pedestrian connections. Public Transport pick up and drop off locations in and adjacent to the Town and Village Centres will be located so to facilitate accessibility to major public spaces, retail and community land uses. Base carparking for various land uses are to be guided by the following table:

Table 7 - Planning and Design Principles

<u></u>	
Land Use	Parking Guideline
Office/Business Premises	1 space / 40m² gross floor area
	+ 1 courier / service car parking space (minimum)
	(minimum)
	A concession may be granted where it can be demonstrated that on street parking is not restricted.
Retail Premises	1 space / 35m² gross floor area
Neighbourhood Shop	1 space / 35m ² gross floor area + 1 space / staff on the site at any one time during peak period; a minimum of 4 parking spaces must be provided
Supermarket/Regional Centre	1 space / 20m² gross floor area + 1 bicycle and 1 motorcycle space per 25 car parking spaces after the first 25 car parking spaces
Bulky Goods Premises	1 space / staff
	+ 1 space / 45m² gross floor area (minimum)
	Note: Parking demand can vary for different types of bulky goods retail stores and additional parking may be required. Comparisons must be drawn with similar developments in similar locations.
	+ provision for cars with trailers, where applicable
<u>Licensed Club</u>	15 spaces / 100m ² , minimum, of licensed
	internal floor + outdoor areas.
	Outdoor areas that are ancillary to the internal floor area, such as small smoking areas, are not included in the total licensed

area.

+ 1 space / staff

+ whichever is the greater for any

Auditorium / Function / Conference room of 1 space / 3 seats, or 1 space / 4m² patron area + provision for service / delivery vehicles + provision for taxi / bus / coach set down / pick up facilities, where applicable + overflow parking area, where applicable

Food & Drink Premises/ Restaurant

1 space / 4m² customer area (both indoor &

outdoor)

+ 2 space / 3 staff present on the site at any

one time

Service Station

1 space / employee present on the site at any

one time

Medical Centre

Whichever is the greater of 1 space / health care professional + 1 space / other employee + ambulance space + 3 visitor spaces / health

care professional or,

4 spaces / 100m² gross floor area

+ 1 ambulance space

Veterinary Surgery

1 space / veterinarian

+ 1 space / other employee

+ 2 spaces / veterinarian for clients

Child Care Centre

+ 1 space / employee

+ 1 space / 10 licensed children places, for

parents and visitors.

+ additional parking where a residential dwelling comprises part of the overall development on the site; the dwelling component shall provide 2 car parking spaces, of which one is enclosed (i.e. garage)

and located behind the building line

One parking space must be a designated space for persons with a disability.

Stack parking may be considered, on merit,

for full-time employees only.

Community/Civic Facilities

1 space / employee

+ 1/40m² gross floor area

+ 1 bicycle and 1 motorcycle space per 25 car parking spaces after the first 25 car parking

paces

+ provision for taxi / bus / coach set down / pick up facilities, where applicable
 + adequate provision for on-site loading, unloading and manoeuvring of all vehicles

likely to be required to access the

development.

1.71.8 Urban Design – Town Centre

Under the provisions of Condition C9, "prior to first application for development in the Town Centre, a strategy is to be developed and submitted to the Department of Planning for approval, to encourage the following:

- Minimisation of land use conflicts through distribution of uses including the consideration of noise, odour, air quality, hours of operation, parking and commercial waste;
- Buildings should address and define streets providing a relatively continuous street frontage for safe and attractive circulation;
- Maximise active ground floor uses as possible and entrances located directly off the main street;
- Provide weather protection for pedestrian in public areas in the form of awnings, sails or other climate appropriate methods;
- *-- The creation of high quality public domain, including equity of access; and
- Appropriate setbacks to the cemetery".

The above strategy will be prepared as required. The strategy will combine encouragement of the above, together with the principles listed in section 1.6 This section of the DCS will apply to development located within the Town Centre. All development applications will need to demonstrate general consistency with the vision and key design criteria contained below for the Town Centre. Any significant departures from this section of the DCS will need to justified on urban design and environmental grounds and will need to demonstrate that notwithstanding the non-compliance a suitable development outcome will be achieved.

1.8.1 Vision

The Calderwood Valley Village and Town Centre destinations will:

- Reinforce the local natural environment and views.
- Reference Calderwood Valley's agricultural past
- Enable the future through imbedding smart innovation

1.8.2 Urban Design Principles

<u>Development in the Town Centre shall be consistent with the following Urban Design Principles:</u>

Principle 1 – Respond To Context

- a) Develop the site as a retail and mixed-use location for Calderwood Valley and the wider Illawarra community.
- b) Respond to the open space network including the existing local heritage cemetery and Marshall Mount Creek riparian corridors.
- c) Provide a town centre that reinforces the community's desires for technology and other needs.
- d) Provide sustainable local employment opportunities.
- e) Orientate to the landscape and views while framing with higher density living models and/or commercial/community built form.
- f) Embed technology within buildings and place.
- g) Build upon and reinforce the character of the Calderwood Valley Village Centre.

Principle 2 - Frame to Town Centre

- a) Frame the Town Centre with green linkages.
- b) Bring the riparian corridor into the town centre, and link with the existing cemetery surrounds as part of a wider open space network.
- c) Establish green thresholds to higher density residential and mixed-use areas.
- d) Facilitate regional connections across Calderwood Valley, including linking the Town Centre to the Village Centre.

Principle 3 – Reinforce the Street Hierarchy

- a) Reinforce the north-south connector as the primary link between the Town Centre and Village.
- b) Bring the green character of Escarpment Drive through the Town Centre.
- c) Create a distinctive town centre street character for Calderwood Road that reinforces address and relationship to open space.
- d) Create a minor road and laneway network and maintain servicing separate to pedestrian movement.

Principle 4 - Identify Gateways into the Town Centre

- a) Identify the intersection of Calderwood Road and Escarpment Drive as the major gateway site.
- b) Identify the southern and northern parklands and bridges as minor gateways.
- c) Consider height and built form to reinforce the gateway nature of the major and secondary gateways and take advantage of green space and escarpment views.
- d) Consider public art and a signage strategy for gateways.

Principle 5 - Locate Potential Higher Density

- a) Support proposed residential lots in the town centre to create a higher density residential frame in the west and south.
- b) Support and increase in density of residential lots immediately interfacing with the town centre and adjacent riparian corridor.
- c) Orientate the increased density lots to views over parkland, distant views to the escarpment and immediate access to high quality amenity and open space.
- d) Consider a residential architectural character that supports the town centre typology.

Principle 6 - Locate Potential Mixed-use sites

- a) Deliver mixed-use outcomes across a precinct.
- b) Enable flexibility and staging of retail and mixed-use offer based on market needs.
- c) Create a pedestrian focused town centre.

Principle 7 - Connections Pedestrian / Cycle and Public Transport

- a) Connect the pedestrian and cycle network of the town centre to the open space corridors.
- b) Create green thresholds between built-form and landscape.
- c) Locate public transport amenity within the Town Centre to reduce connectivity distances and time.
- d) Integrate alternative active transport where appropriate.

Principle 8 - Frame the views

- a) Create a mixed-use built-form that orientates to the riparian corridor and E3 zone protected vegetation.
- b) Create a mixed-use built-form that connects directly to and extends the open space.

c) Orientate the public areas to take advantage of the distance escarpment views and to the north.

Principle 9 - Respond to Topography

- a) Separate pedestrian movement from servicing
- b) Use the servicing network for car park access and for access to loading docks.
- c) Consider graded and sleeved car parking where topography enables.

<u>The Town Centre Framework Plan is provided below</u> (**Figure 45**). <u>Future</u> development shall demonstrate that it is generally consistent with the principles established for the Town Centre.</u>

Council may be permitted to approve variations to this framework plan should it demonstrate consistency with the Design principles.

wetland basin

E2

CITY WIDE PARK

PARK

PARK

PARK

PARK

B4

Collegend basin

basin

E2

Collegend basin

basin

pedestrian zone

pedestrian zone

pedestrian zone

pedestrian zone

connection whan wilk main street

connection whan wilk main s

Figure 5 – Town Centre Core Framework Plan

1.8.3 Town Centre Core Built Form Guidelines

<u>Development within the Town Centre Core shall demonstrate consistency with the Built Form Guidelines contained in Table 5.</u>

<u>Table 8 – Town Centre Core Built Form Guidelines</u>

No. Performance Criteria	Design Guidelines
The plan aims to provide a clear vision for the centre, principles to guide the design and to require the developer of the Town Centre to prepare a Master Plan based on sound principles.	
Built Form Development is sited and has a scale and mass that contributes to the creation of an urban town centre character responding to local views and amenity provides appropriate residential form and amenity balancing activated public streets with security and privacy provides for visual interest creates an active, safe and comfortable public domain	 Maximum building height and floor areas complies with the Concept Plan development parameters. Landmark buildings are sited to demarcate important or highly visible locations such as a key intersection, gateway and/or edge. Building siting to provide for Mixed Uses at ground floor levels on Main Street that open on to the street and enhance the pedestrian movement within the precinct. Building height respects the landform, surrounding development, desired streetscape and neighbourhood character and protects views towards existing open space and surrounding bushland areas. Building Siting and Scale provide optimum solar orientation for both retail mixed use and residential
2 Building Design	accommodation.
Building Design and Location respects the existing landform, surrounding development, desired streetscape and Town Centre character and protects views towards existing open space and surrounding natural features.	 Streetscapes are of high quality with consistent design style relative to the regional setting. Building Design provides optimum solar orientation for both retail mixed use and residential accommodation. The ground floor of buildings facing Main Street or an activity street enables pedestrians in the adjoining public domain to perceive activity within the building. Retail Mixed Use and Commercial ground floor entries provide opportunities for social interaction. Community facilities located to optimise access for all abilities. Public Transport to be coordinated with completion of a high quality public realm including Main Street

<u>No.</u>	Performance Criteria	<u>Design Guidelines</u>
		and Citywide Park and located in walking distance to main community facilities. Residential accommodation is sited and designed to minimise adverse amenity impacts such as noise from non-residential uses, in particular vehicle loading and unloading areas and garbage storage and collection areas.
		Supermarkets or other large retail uses are in accessible locations to generate foot traffic that promotes the activation of the Town Centre Core and key public space and benefits other business premises, and shall have clear, legible access directly to the public domain.
		Residential and Mixed-Use building design to accommodate bike storage facilities.
		 Roofs are designed to make a positive contribution to the quality of the building skyline
<u>3</u>	Vehicle Parking, Access, Servicing and Manoeuvring	
	Provide for safe and convenient access and egress for private vehicles, service vehicles and public transport. Balance on-site car parking provisions that provides safe and convenient access to amenity with infrastructure support for alternative modes of transport.	 Accommodate reasonable, safe and comfortable private vehicle parking provision with encouraging alternative modes of transport. Ensure buildings can be adequately serviced by delivery vehicles and service bays are located and designed to minimise visual and acoustic impact on adjoining land uses in particular residential accommodation. Secure, accessible bicycle parking is provided on site. Optimise land use for shared and collocated carparking where possible to minimise land take, enhance walkability and maximise pedestrian connections. Provide direct controlled access to Mixed Use retail and commercial areas whilst protecting adjacent residential areas from excessive through vehicular traffic.
<u>4</u>	Residential Amenity	
	Provide medium density housing within and adjacent to the Town Centre to further enhance the residential housing diversity and activating the precinct outside of business hours.	 Residential accommodation is provided with adequate screening, privacy and separation from conflicting retail land uses and services areas.

<u>No.</u>	Performance Criteria	Design Guidelines
		Residential accommodation is sited and oriented to maximise outlook and views to desirable features such as public and communal open space.
		 Residential accommodation is designed and sited to create streetscapes which are attractive, varied and interesting, with landscaped and safe pedestrian areas.
		Residential Built Form to respond to SEPP 65 Design Principles and the Apartment Design Guidelines. And SEPP (Housing for Seniors and People with a Disability) as relevant.
<u>5</u>	Learning and Community	
	Provide a diversity and variety of Community and Educational gathering spaces	The Town Centre is characterised by a range of uses including community, residential, retail, commercial, entertainment, and leisure.
		Provide a range of public spaces including Town Square and Citywide Park as gathering spaces.
	Express strong presence for civic / community uses;	 Community Uses are located to provide a strong visual presence contributing to variety and interest to the public domain.
<u>6</u>	Local Character and Context	
	The Town Centre building materials, forms and colours shall respond and be informed by the former rural heritage of the towns in the region. The diversity and	 Main Street should have quality of durable materials, furnishings and finishes as referenced in the Landscape Masterplan for Calderwood Valley.
	form of Main Street in local coastal villages in the Illawarra region has been an influence in terms of the scale (length) and diversity of form	The built form along the Main Street should ensure that it is the focus of community and pedestrian activities within the Contra
	for the Centre.	within the Centre. The Main Street should create a pleasant, safe and comfortable environment; accessible for all users including meeting the needs of allabilities. The Town Centre provides for civic gathering places.
7	Open Space	gattiering places.
	Integrate planning, development and management of the riparian corridor, Citywide Park, and urban public spaces.	Protect and enhance existing natural and man-made feature of Marshall Mount Creek.
		 The public spaces shall have a locally relevant and consistent landscape character which contributes to the amenity of the Town Centre and integrates with adjacent natural areas Refer to the Calderwood Landscape Masterplan for required finishes and

No.	Performance Criteria	Design Guidelines
		characters of open space and streetscapes. The Citywide Park is to provide a civic
		focus for the town centre that allows for a variety of community activities. Provide a clear system of pedestrian
		and cycleway circulation within the Centre, linking to open space and other adjacent areas as a key nodal point in the communities pedestrian and cycle network.
8	Sustainable Transport	and by the memory.
	Promote and integrate public transport	 Provide accessible local bus infrastructure as a focus for public transport within the Town Centre.
	Promote alternative forms of transport to private motor vehicles	 Provide bicycle parking within the town centre that is attractive and safe for users. Provide visible parking locations for car share schemes. Provide clear pedestrian pathways through the town centre which are intuitive and supported by wayfinding signage.
<u>9</u>	Environmental Sustainability	
	Develop a community which is environmentally, economically and socially sustainable.	 View corridors to the Illawarra Escarpment and Marshall Mount Creek to be respected and reinforced so to enhance the public domain and local sense of place.
		 Main Street, Citywide Park and key pedestrian links to be developed with landscaping to form green connections to surrounding open spaces. Stormwater is channelled to water quality ponds as part of the overarching Water Cycle
		Management Strategy. Provide opportunities for learning and interpretation throughout the Town Centre and public domain.
		Provide opportunities for Residential Accommodation and Mixed Use to integrate and contribute to an economically viable Town Centre.
10	The location, size, appearance and quality of building signage is appropriate and is integrated into the overall design of the building	 The size and location of signage is to be proportional and located appropriately to the architecture of buildings. Signage is integrated with the overall design of the building.

<u>No.</u>	Performance Criteria	<u>Design Guidelines</u>
11	Safety	
	Provide comfort in public spaces	 Provide community gathering spaces and seating areas appropriately landscaped with shade provision.
	Create an activated and safe Town Centre	 Ensure that Residential Accommodation and Main Street retail and mixed uses provide adequate street surveillance as a critical public safety element. Retail uses are open a wide range of hours to maximize the times of activation and therefore surveillance for most areas.
<u>12</u>	Staging	
	Ensure Masterplan provides for opportunity to deliver Town Centre Retail and Mixed Use in economically viable stages.	The layout of the Centre must facilitate the ability to be delivered in stages
		The initial mix and layout of development of the Centre must emphasise the multifunctional characteristics of the Centre with integration to public transport.
<u>13</u>	<u>Innovation</u>	
	Provide opportunities for Innovative solutions to infrastructure, public domain and retail mixed uses in Town Centre	 Consider techniques in road and infrastructure construction to reduce the heat island effect of plain black asphalt.