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RobertsDay

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We acknowledge the Cabrogal of the Darug Nation as the traditional Custodians of the land. We would like to pay respect to the Elders both past and present of the Fairfield area and extends that respect to other Aboriginal and Torres Strait Islander Australians.



EXECUTIVE SUMMARY

Environmental Partnership and RobertsDay, in collaboration with Fairfield City Council, have developed a Public Domain Plan for Carramar Centre. This Plan responds to government mandate and best practice public domain planning by undertaking a place-led approach that responds to a deep understanding of the centre's unique place attributes.

Part A of the report provides a foundation of Place Knowledge - establishing an understanding of the city centre's existing and future identity. The Place Knowledge forms the basis for a series of briefs which inform Place Activation, Economic Development and Public Domain Objectives.

Part B of the report details the implementation of the Public Domain Objectives through Structure Plans, Public Domain Typologies, Design Specifications and an approach to Materials and Finishes.

Part C of the report details Vision Concepts for a series of Demonstration Sites illustrating potential applications of the Public Domain Plan.

Part D of the report summarises background studies and best practise benchmarking that has informed the plan.

This Public Domain Plan will facilitate the delivery and activation of public realm that celebrates Carramar's character and builds on its local strengths to generate a well-connected, liveable, socially vibrant, and visually appealing centre.

Place Identity CARRAMAR CENTRE IS...

TRANQUIL

Sitting in the shade of tall trees, and with physical and visual access to the creekfront, Carramar is nestled within nature. It's a place where people feel calm and relaxed, and enjoy the respite from fast-moving traffic, bustling shopping centres and dominating infrastructure.

RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and residents. Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

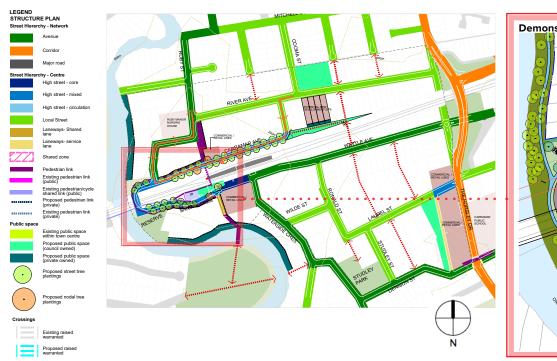
LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.



Public Domain Structure Plan

Demonstration Concepts







Proposed signals crossing

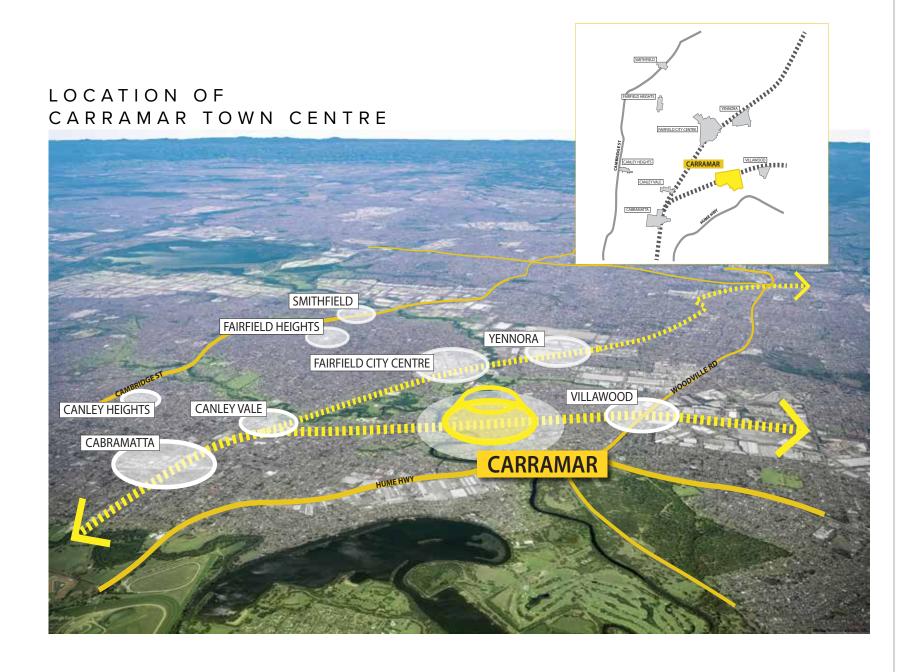


Illustrative view 1: Proposed Shared path access and parkland adjoining Sandal Crescent

Illustrative view 2: Park / Square at Railway Station on Sandal Crescent

GLOSSARY OF KEY TERMS

Activation	Creating vibrancy in a street or public space through movement, community and commercial activity creating vibrancy in a street or public space through movement, community and commercial activity				
Brief	Focused advise and direction				
Design Toolkit	Set of public domain design strategies derived from review and assessment of best practice public domain references				
Economic Development	Promotion and facilitation of increased economic activity and vitality				
Guidelines	Design and materials references to guide planning and design				
Objective	A desired outcome				
Place Identity	The multiple ways in which place functions to provide a sense of belonging, construct meaning, foster attachments, and create memories				
Place Knowledge	The collection of influences and relationships that combine to inform place identity				
Public Domain	The natural and built environment accessed and utilised by the public on a daily bases including streets, plazas, open spaces and parks (public spaces).				
Research Foundation	The information derived from research and investigation				
Street hierarchy	Varied vehicular and movement roles, civic and commercial functions, and landscape patterns				
Structure Plan	The plan illustrating the application of the underlying street hierarchy, key public spaces, and movement linkages for the centre				
Typology	The collection of functional and environmental characteristics applying to each element of the street hierarchy				



HOW TO USE THIS DOCUMENT?

Fairfield City Council have worked with leading consultants to develop a place-based process to inform future public domain decision making. Following the sequence set out below, will ensure an evidence & place-based response for the Centre.

PART A: PLACE KNOWLEDGE

BACKGROUND & CONTEXT



Above images are example extracts.

Further background & context understanding can be found in the Appendix.

This section of the document provides:

- An overview of the centre study area,
- Understanding of the centre's context.
- Sets the tone for achieving evidence-based Best Practice.



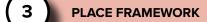
PLACE IDENTITY



Above images are example extracts.

This section of the document identifies:

 The DNA of Carramar Town Centre... What defines it, The Vision, Character and the authentic qualities of the place.







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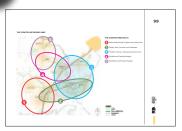
In capturing both Best
Practice Values through
Place Principles and being
guided by the DNA of place;
Place Identity, this section of
the document outlines the
Strategic Briefs for:

- Planning and Design
- Events and Activations and:
- Economic Development of Carramar Town Centrre.

The Framework is critical in the process, and to be utilised by designers & developers to respond to the centre's Place Identity. For Council, this Framework will be used to review future developments against to ensure the delivery of an authentic place-based response.

Now that a place-based understanding of the Centre has been established, in order to inform future decisions, users of the document will need to refer to the following sequence below to carry across Place to Implementation.

THE STRUCTURE PLAN







Above images are example extracts.

The Structure Plan for the Centre provides a blueprint for designers, developers and Council to understand and implement a considered and agreed upon approach to achieve the Strategic objectives for the Centre.

Designers, developers and Council need to align future decision making with the Centre's:

- Networks between neighbouring centre's and locally, within.
- Key design moves,
- The best practice intentions for streets and public space hierarchy and guidelines.

PART B: PUBLIC DOMAIN PLAN

HIERARCHY TYPOLOGIES



Above images are example extracts.

This section of the document outlines the agreed approach required to deliver:

Best Practice Streets and Public Space Hierarchy Typologies across the Centres, as a minimum standard.



HIERARCHY DESIGN SPECIFICATIONS



Above images are example extracts.

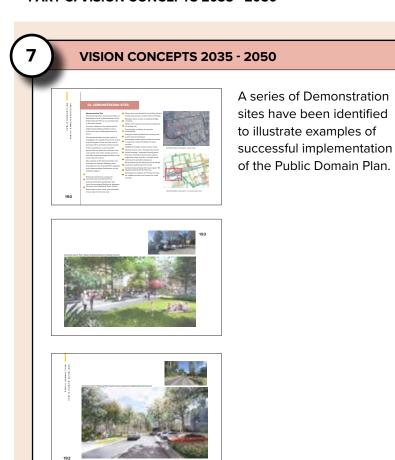
This section of the document identifies in detail the implementation specifications for each Hierarchy Typology across the Centre, including targets, design and materials approach.





Leading from the understanding of Part B: Public Domain Plan, Step 7 provides a series of Demonstration Sites that illustrate examples of successful implementation of key street and public space types across the Centre.

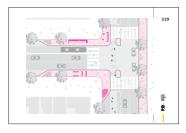
PART C: VISION CONCEPTS 2035 - 2050



Above images are example extracts.

PART D: SUPPORTING RESEARCH

SUPPORTING RESEARCH







This section of the document outlines background research to support the Place Knowledge and Public Domain Plan and includes:



Document Review

Best Practice Research Frameworks

Stakeholder Engagement

Performance Matrix

Audit Mapping



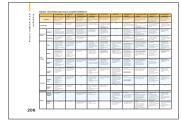










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S gred places

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Part A place knowledge

Sustainable Regeneration has the public realm at its heart. Establish a vibrant, pedestrian friendly public realm at key centres, transport interchanges and urban renewal areas, with places for gathering and good connections to open space.

Sydney Green Grid - South West District

Chapter 1 Research Foundation

- 01. DOCUMENT REVIEW
- 02. PLACE CONTEXT



01. DOCUMENT REVIEW

INTRODUCTION

A comprehensive review of documents has been undertaken, including planning policy and guidance, the 2019 Urban design Study of Carramar Centre and Best Practice approaches to Public Domain Design.

A. PLANNING POLICY/GUIDANCE

Analysis of relevant policy and guidance documents has been undertaken, including those from the global, national, state, regional and local levels, listed below. A summary of these documents and their relationship with this report has been provided in Appendix 1.

Global

- New urban Agenda (UN Habitat III)
- The UN 2030 Agenda for Sustainable Development

National

- Creating Places for People An Urban Design Protocal for Australian Cities
- Healthy Spaces and Places A National Guide to Designing Places for Healthy Living
- · Smart Cities Plan
- Road Safety Plan

State

- Better Placed
- Greener Places
- Movement and Place
- Draft Open Space for Recreation Giude
- Future Transport Strategy 2056
- Local Character and Place Guidlelines

Regional

- A Metropolis of Three Cities
- Western City District Plan
- Western Sydney Street Design Guidelines

Local

- Fairfield City Plan
- Fairfield Draft Local Strategic Planning Statement (LSPS)
- Fairfield City Economic Development Strategy 2019 Update
- Fairfield City Disability Inclusion Action Plan 2017
- Fairfield Centre Urban Design Study

B. URBAN DESIGN STUDY AND OPEN SPACE OVERVIEW

A number of recent studies have been developed for Fairfield City Council that influence ongoing centre development. This includes the 2020 Urban Design Study (UDS) for Carramar and the Fairfield Place Community Facilities and Open Space Needs Study.

Key influences and Points of Inquiry raised by these studies that influence the Public Domain Plan are discussed following.

UDS key influences:

Networking & Parking:

- Denison Street, Quest Avenue, Waterside Crescent, Wattle Avenue, Sandal Crescent, Ruby Street, Mitchell Street and The Horsley Drive are identified as main structuring routes.
- Strategic acquisition of properties to provide more north-south direct
- Additional link across railway corridor to improve connection between north and south
- Introduce building setback to strengthen the north-south pedestrian link (from the creek to train station to Ruby Street) in the core of town cetre
- Improve connections across Prospect Creek
- Improve visual and spatial connection to Prospect Creek
- Introduce building setback from Prospect Creek and invest walking and cycle infrastructure along the creek
- Intersection between Wattle Avenue and The Horsley Drive is potential gateway area
- Intersection between Laurel St and The Horsley Drive is potential gateway area
- Promote commuter parking around the station by extending perpendicular parking along Wattle Avenue and Carramar Avenue

Public Space:

- Plant trees along railway arrival corridor and along main streets to reinforce green character
- Retain existing mature tree canopies along the creek and within private domain
- Redevelop existing car parking area as more urban public spaces that cater for a range of users group
- Look for innovative solutions for the provision of open space in area of deficiency (current open space arrangement is not supported by the Government Architects office for higher density residential environments where public open space should be within 200m of residential unit)
- Improve functionality of Studley Park

Key Sites:

- Proposed Age Care Centre to 234-238A River Avenue
- Proposed Boarding House to 6 Carramar Avenue

Points of Inquiry (refer map annotations following page):

- Consideration of alternative location for the additional link across railway corridor that better connects to residential areas and potential open spaces?
- Consider retention of a portion of existing off street commuter carpark while providing a public space adjoining train station
- c. Consider optimum location for new open space areas to north side of railwav
- Reconsider future landuse of 6 Carramar Avenue

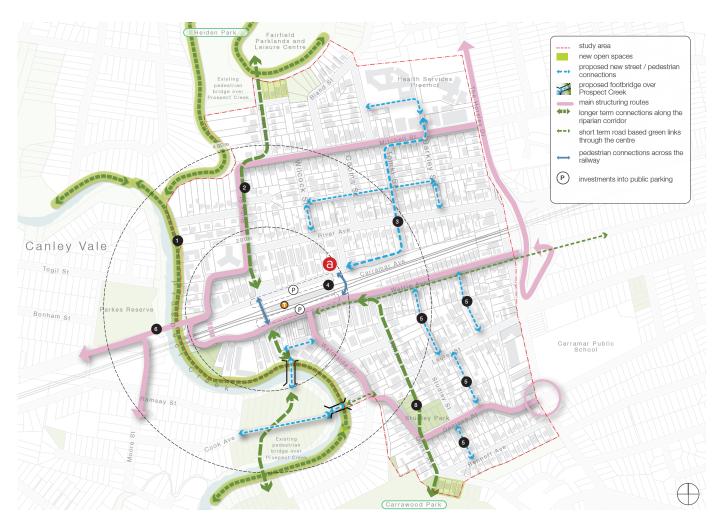






Carramar Centre
Urban Design
Strategy: Movement
and Public Domain
Frameworks
(Carramar Centre
UDS - SJB
Architects)
(Points of enquiry

(Points of enquiry for public domain plan overlaid in red)



Public Domain Framework



C. BEST PRACTICE RESEARCH

The following reports and books are considered best practice, and provide the evidence for the development of a set of Place Principles which will guide the implementation of this Public Domain Plan. Those Principles are described in detail in Chapter 3 - Place Framework.

MOVEMENT AND PLACE

Through a practitioner's guide, toolkit and governance structure, it seeks consideration of place when developing our transport systems.

HEALTHY STREETS

The approach focuses on the health impacts of transport, public realm and urban planning.

BETTER PLACED

An approach to ensure good design delivers the architecture, public places and environments that will be places people want to inhabit now and those we make for the future.



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BEST PRACTICE OVERVIEW

The following pages provide an overview of the Best Practice Frameworks, to collectively inform a more holistic approach for Fairfield. These form the basis from which the Place Principles have been developed.

Additional and supporting documents applicable to Fairfield's place-based holistic approach can also be referenced in the Appendix:

- 1. Policy Review
- 2. Document Review
- 3. Best Practice Framework

HEALTHY STREETS



Author: Lucy Saunders

Healthy Streets is an evidencebased approach for creating fairer, sustainable, attractive urban spaces.

The approach focuses on the health impacts of transport, public realm and urban planning. Key elements identified as necessary elements for public spaces to improve people's health are the same as those needed to make urban places socially and economically vibrant and environmentally sustainable

Framework Focus:

- People and Health
- Reducing Inequalities
- Walking and Cycling

BETTER PLACED



Author: GANSW

Better Placed is an integrated design policy for the built environment in NSW.

It considers an approach to ensure good design delivers architecture, public places and environments will be places people want to inhabit now and those we make for the future. Better Placed provides a framework to support and develop tools for better design outcomes through locally based policies and initiatives.

Framework Focus:

- Creating Better Places
- **Enhancing Design Quality**
- Emphasises the Importance of Design

MOVEMENT AND PLACE



Author: GANSW + TfNSW

Movement and Place is a collaborative policy developed by Government Architect NSW and Transport for NSW.

Movement and Place creates a shared language and approach to help all stakeholders achieve better place outcomes. Through a practitioner's guide, toolkit and governance structure, it seeks consideration of place when developing our transport systems, through collaborative working between the community, movement and place practitioners.

Framework Focus:

- Acknowledging Streets as Public Space
- Aligning Movement Functions with Places

COMPLETE STREETS



Author: RobertsDay

A city's greatest civic space is it's streets.

A Complete Streets approach considers these spaces holistically, across all disciplines, to develop an over arching Complete Streets Framework for the city centre, as well as specific Complete Street designs for each street. The end result is a better place that benefits everyone.

Framework Focus:

- User + Transport
- Mobility Focused
- Mode Hierarchy

CULTURE, VALUE + PLACE



Author: CreateNSW

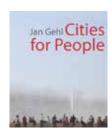
Provides research on the ability of culture to be understood and utilised for the development of a successful city.

The report delineates the relationships between culture, place, and value using global city case studies, and addresses how cultural investment can contribute to placemaking, bridging social barriers, building shared identities and creating economically successful places.

Framework Focus:

- Culture and Arts
- Links between Culture, Place & Value
- Culture & Policy
- Global Case Studies

CITIES FOR PEOPLE



Author: Jan Gehl

Cities for People is an approach based on the value of human scale, mixed neighbourhoods, public spaces, adaptability and resilience.

The concept considers three priorities, Life, Space, Buildings, in that order, and is applied as part of the design process, both from a 'discovery' stage of understanding place, through to envisioning and design implementation. All of these priorities are important for creating a human scaled place or a sense of community.

Framework Focus:

- Human Scale
- Mixed Neighbourhoods
- **Public Spaces**
- Adaptability & Resilience

SOFT CITY



Author: David Sim

'Soft City' concept discusses a human-centred urban design approach, where people, place, environment and the relationships between are the focal points for all urban design.

Good cities are ones that make these connections possible.'Softness' of a city is an overarching and essential quality which considers the idea of the boundaries that you feel as you move about the city, and how they can start to come down Framework

Focus:

- Fluid Movement and Comfort
- **Human Dimension of Density**
- **Diversity of Building Types**
- Thoughtful Design





02. PLACE CONTEXT

REGIONAL POSITION

The Fairfield City Council local government area is located in Sydney's south-west, approximately 32 kilometers from the Sydney CBD. The council area boasts 27 suburbs; Carramar is one of these whose biggest asset is its immersive natural and recreational surrounds.

The City is predominantly residential with substantial industrial and commercial areas and some rural residential areas in the west.

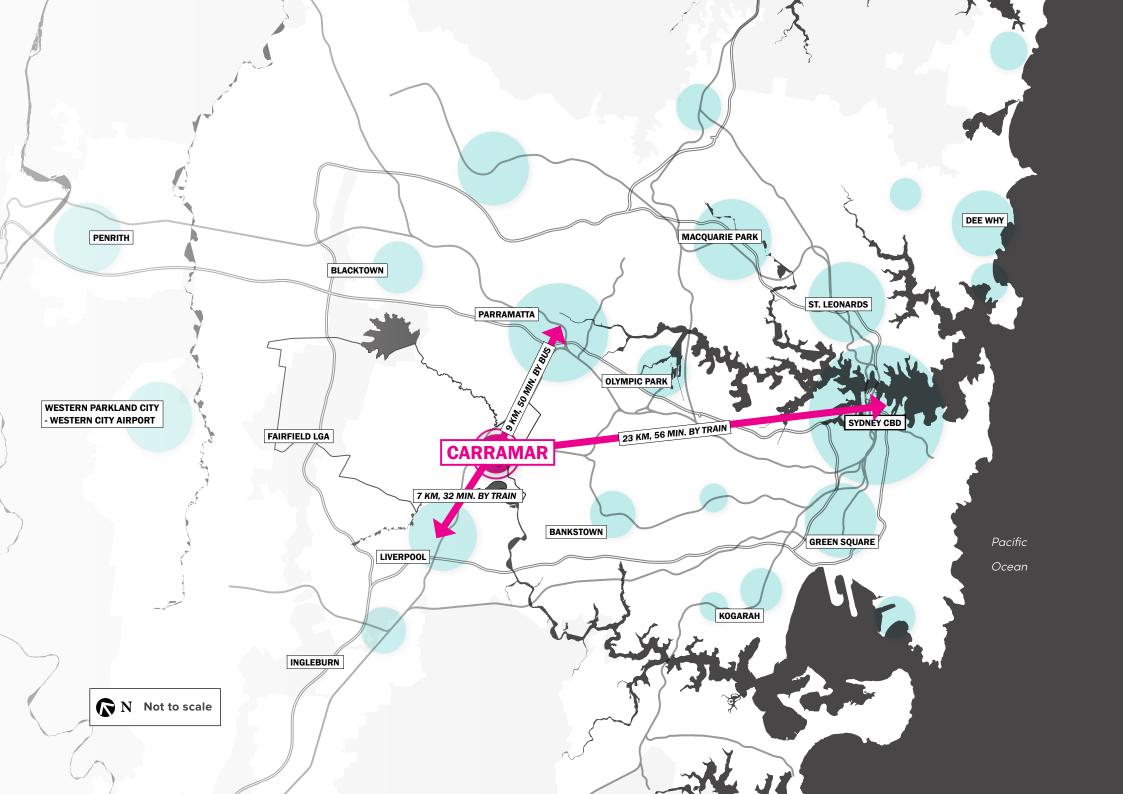
Fairfield City Council has an estimated population of 204,442 (2015) people who reside in 57,181 dwellings. These people represent a culturally diverse population with more than half of residents being born outside of Australia. Many new migrants to Sydney choose to make the Fairfield City Council area their home. This diversity needs to be celebrated as it is a major strength that injects a mix of cultural traditions and festivities into the landscape.

Carramar is located 30 kilometres west of the Sydney central business district, 2 kilometres to Fairfield City Centre and 5 kilometres to Cabramatta Town Centre. The centre of Carramar is bisected by the train line, centered on the historic train station, and bound by The Horsley Drive to the east and Orphan School Creek to the west. This tidal creek plays an important role in Sydney's 'Blue Green Grid' and flows into the Prospect Creek. Carramar is characterised by low-density built form, ranging from single storey dwellings to 4-level brick walk-ups.

Carramar is reliant upon neighbouring centres such as Fairfield City Centre, Cabramatta, Canley Vale and Villawood for retail and commercial uses, although there are a handful of retailers along Wattle Avenue, beside the station.

The challenge is now to develop Carramar in a way which enhances its local community assets and unique setting of open green spaces, reserves and the tranquil creek. More active facades could ensure that the streets and frontages remain engaging, regardless of reliance upon non-residential land uses. This in turn, will encourage walking and discovery.

"Prospect Creek plays an important role in Sydney's `Blue Green Grid'..."



KEY PLACES

Carramar was initially called South Fairfield but was changed to Carramar in 1926, an Aboriginal word meaning 'shade of trees'. "The area's popularity fostered expectations of a development because of railway extensions in 1924 but the boom did not happen as a consequence of the depression of 1929 which saw the limited investment that there was directed to areas which were better connected." (Carramar Urban Design Study)

Carramar is a suburb that relies on surrounding centres for large scale activity, amenity and key places. Having said this, there are numerous local assets within Carramar that create a sense of place.

The centre is serviced by Carramar Station (1), with the station entry located along Wattle Avenue (3) and Carramar Avenue. With the station bisecting the suburb, pedestrian and cyclist access is located beneath the rail tracks via a connected walkway. On either side of the station exits (below the steel canopy of the rail bridge crossing), the strips of open spaces, whilst currently inaccessible to the public, provide a green and pleasant sense of place to pedestrians.

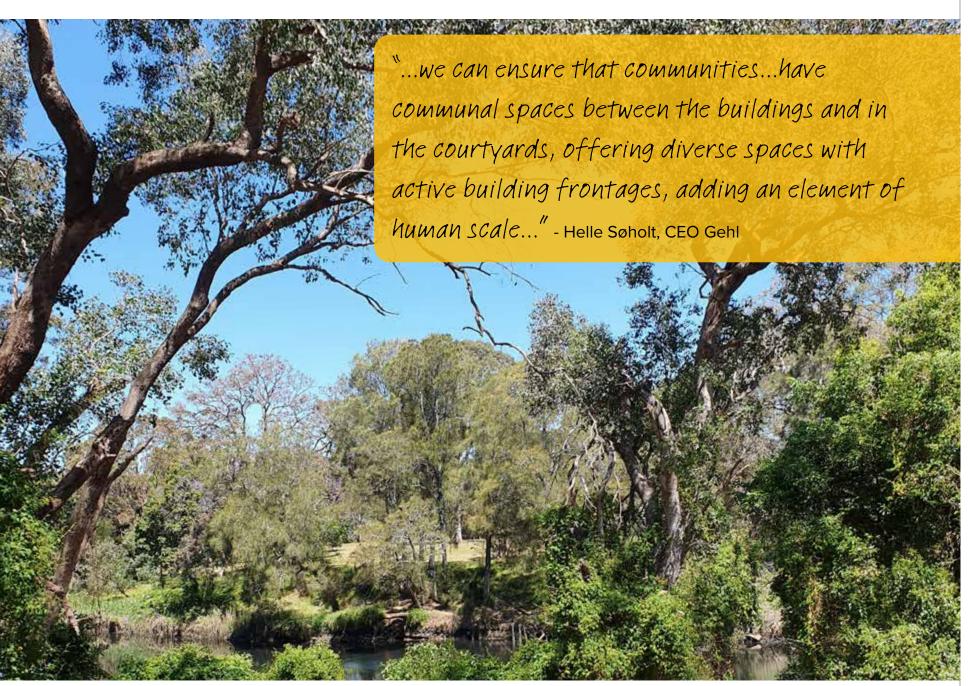
There is a total of seven parks identified during desktop review within Carramar. These numerous open spaces, including Sandal Crescent Reserve, adjacent to Carramar Bridge (5) and Carrawood Oval are significant spaces that are distinct natural assets on the west side of neighbourhood, alongside Orphan School Creek. To the south of the study area, Studley Park (4) services the residential area containing play elements and is open to three street frontages.

To the north of the railway line, there are currently no parks within the study area, however Carramar sits alongside Prospect Creek (2) as Orphan School Creek and benefits from the adjoining creekline environment. Beyond the study area, within Oakdene Park is home to the historic Bland Tree (6), which is apparoximately 170 years old, being one of Sydney's oldest living trees and one of the largest in the region.

Carramar Public School (7) is located 1.5 kilometres from the rail station, with the main access along Denison Street. Adjacent to the school, is a cluster of specialised shops, located on The Horsely Drive (8).

Whilst there are no council-owned community facilities in Carramar, there are some community based organisations and non-profits featuring clustering of health related services along The Horsley Drive including NSW Ambulance, Kartine, STARTTS, aged care, Heiden Park Lodge and Fairfield Liverpool Youth Health Team (FLYHT) Health Centre.

Within the neighbourhood, there are also a number of Places of Worship, that represent the diversity of the local community and their cultural backgrounds.



KEY PLACES CONTINUED



CARRAMAR RAILWAY STATION



STUDLEY PARK



CARRAMAR PUBLIC SCHOOL



PROSPECT CREEK EDGE





THE HORSELY DRIVE SHOPS

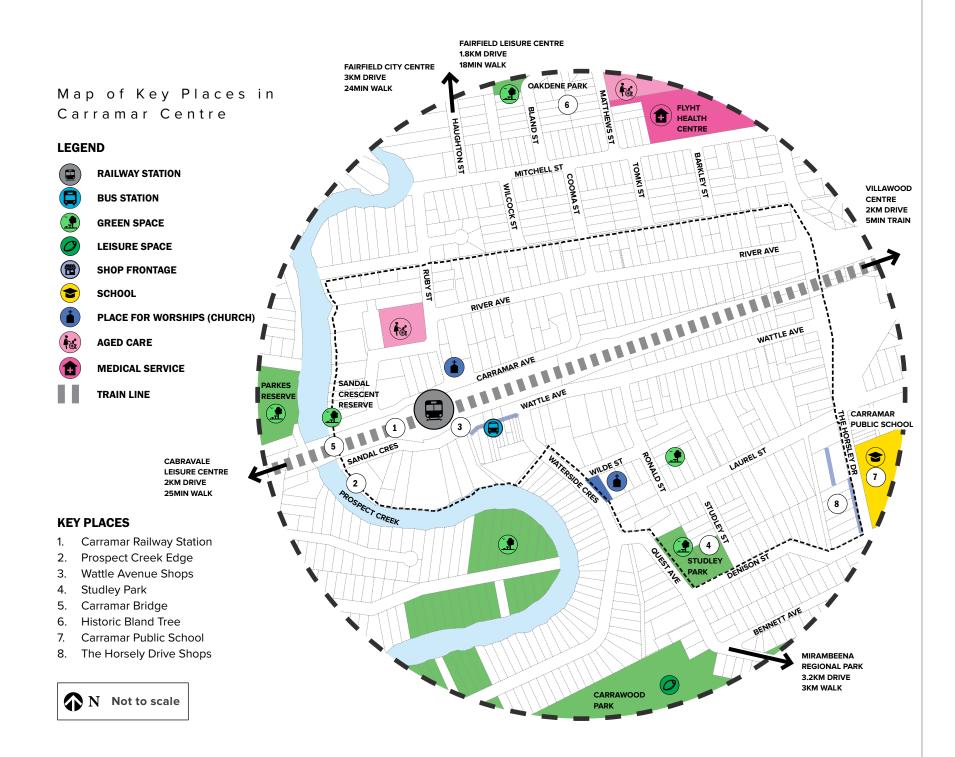


WATTLE AVENUE SHOPS



HISTORIC BLAND TREE





SOCIAL CONTEXT

The population of Carramar suburb is much smaller compared to its surrounding neighbourhoods, however it is experiencing gradual residential growth. Whilst the median age is 37 years, there is a community of elderly people in Carramar, with health facilities such as nursing homes and hospitals available to support them.

RESIDENTIAL GROWTH (2020-2036 - FORECAST ID)

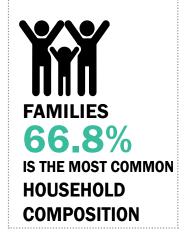
Key Social Statistics:







MEDIAN WEEKLY HOUSEHOLD INCOME \$926





THE MOST OCCURRING

DWELLING STRUCTURE





(56%), **SEPARATE HOUSE** (38.4%) **AND SEMI-DETACHED (4.4%)**



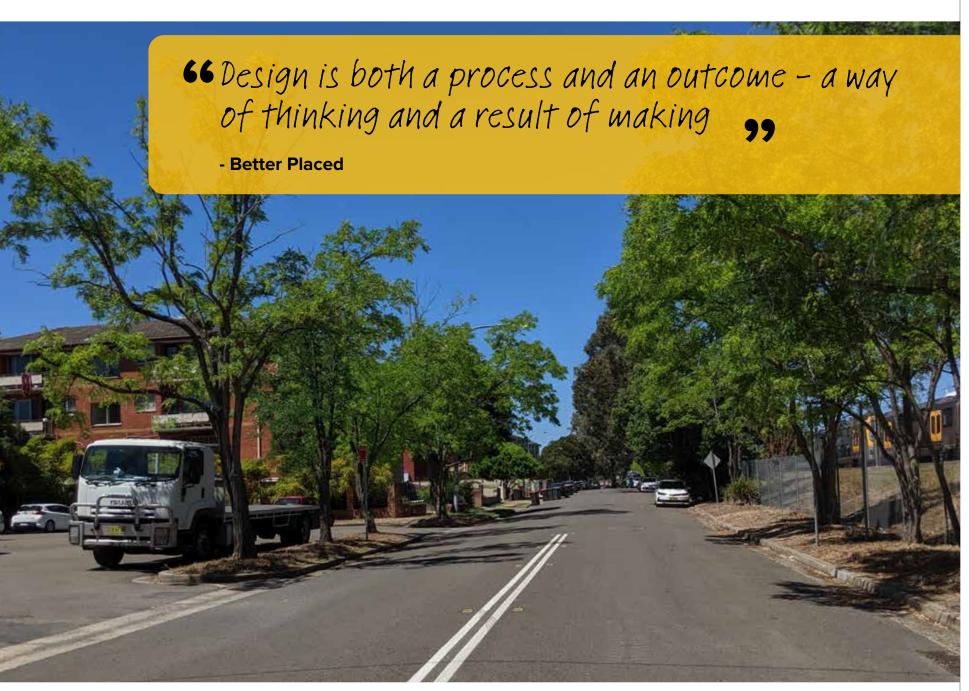
OF WORKERS

TRAVEL TO WORK BY **PUBLIC TRANSPORT** (TRAIN, BUS)



11.3%

OF SUBURB ARE AGED OVER 70 YEARS OLD (ABOVE GREATER SYDNEY AVERAGE 9.5%)



ECONOMIC CONTEXT

The retail strip along Wattle Avenue and the commercial strip along Horsley Drive are central attributes of the local centre of Carramar. Both precincts are near other key places, including the train station and school, respectively, however they are considered to be quite underutilised.

Local Centre

Classified as a 'Local Centre' which is defined as a centre providing major weekly food shopping and convenience retail needs for the population of more than one suburb. Carramar provides two areas that offer shopping and retail needs: Wattle Avenue Retail Strip and The Horsley Drive Commercial Strip

Wattle Avenue Shops

Wattle Avenue retail strip is set within a mature leafy setting, with good proximity to the train station and surrounding residents. It currently has a very limited amount of services and offering, including a news agency, grocery store and a post office.

The Horsely Drive

Located on The Horsley Dr between Laurel and Denison Streets - has off street parking and a mix of uses including commercial spaces, affordable wholesale and luxury goods related stores. This centre appears to rely on vehicular access with a car park (private "public domain") with council strip along

The Horsely Dr operating as a bus stop and street verge. The retail area has a generally tired and run-down appearance that does not encourage lingering but offers good proximity and potential amenity to address the School and main street.

Interesting statistics:

THE MOST COMMON OCCUPATION IS LABOURERS (19.5%), MACHINERY OPERATORS & DRIVERS (15.3%) AND TECHNICIANS & TRADE WORKERS (14.4%)

44%

HOUSEHOLDS RENTING
(ABOVE GREATER SYDNEY AVERAGE 32.6%)

34.3% RENTING PRIVATELY
9.6% RENTING SOCIAL HOUSING



Source: ABS Estimated Resident Population 2019, ABS Carramar, 2016, and Forecast ID, 2036 Carramar

Second places

ECONOMIC STRENGTHS

- Location along major railway line.
- Proximity to regional roads, providing high level access by private car transport and supporting goods deliveries.
- · Affordability and proximity to local community services and school.
- Local community in need of daily needs shopping as the population and density increases.
- Mature tree canopies, contributing to aesthetics and quality of place.
- Unique natural and recreational setting has the potential to provide a suitable backdrop to a distinctive retail offering.
- Proximity to neighbouring recreational assets including Fairfield and Cabravale Leisure Centre and Villawood Woods Action Centre with rock climbing, swim school, play space and bowling.
- Centre location is setback away from major roads, allowing for more comfortable amenity to support local retail and dining options.
- Prospect Creek, Sandal Crescent Reserve and leafy quality of centre supports future health, wellbeing and recreational business sector opportunities.
- Commuters from railway station, supports 'daily needs' customer market.

ECONOMIC CHALLENGES

- · Neighbourhood centre is small with limited offering.
- Proximate residents have low disposable income.
- Low reputation and branding as a business centre that provides a point of difference or interesting offer.
- Market demand for local retail, with competition from nearby local centres, including Fairfield, Cabramatta and Villawood.
- Tired and aged public domain impacting the quality of retail offering and local offering experience.
- Lack of after-hours and evening economy.
- Distinct recreational destinations (Prospect Creek and Sandal Crescent Reserve) could be major attractors but are not well-connected to the town centre.

ENVIRONMENTAL CONTEXT

Movement & Accessibility

Train Station

Carramar is serviced by its own Train Station, increasing the level of accessibility to the area. This convenient mode of transportation provides connectivity to the surrounding suburbs, which in turn encourages visitors to the centre for both socialisation and employment opportunities.

Cycling

Carramar is also linked by a cycleway along Orphan School Creek which connects the edge of the area to its surrounds as far as Mirambeena Regional Park, Bankstown. This cycleway provides predominantly recreation rather than commuter opportunities as it does not connect to the centre's core amenities or train station. The cycleway that links to the train station and centre is located over the bridge and currently does not connect well to Carramar centre on The Horsley Drive. There is however a locally-known onroad cycleway connecting to Fairfield City Council through Fairfield Park, but lacks wayfinding and signage.

Walkability + Car Dependency

Carramar possesses a Walk Score of 49 defining Carramar as a 'Car-Dependent neighbourhood'. This is evident from the high number of cars parked around the centre as well as surrounding the train station. This also reflects that people do not use alternative modes of transport to access the train or amenities within the centre as they are car dependent. This car dependency is reinforced by the generous provisions of commuter parking and on street parking along both sides of the station.

Street Network

The street network within Carramar serves primarily vehicle uses and encourages people to pass through rather than walk, cycle, stop and linger. Its main streets relate to the train station. Wattle Avenue to the south of the station and Carramar Avenue to the north of the station are connected by the Sandal Crescent underpass which is located next to Sandal Crescent Reserve and Orphan School Creek. Both are small local streets providing a one lane carriageway in each direction.

Wattle Avenue includes on street parking on either side. On the north side is some tree planting and on the south side is the footpath which has basic amenity including bins and limited basic metal bench seating.

Carramar Avenue features more mature trees on either side of the street providing significant shade. Footpaths on Carramar Avenue are inconsistent with frequent breaks and dead ends. Both streets feature pedestrians' crossings to provide access to the train station underpass. The Carramar Avenue crossing has been upgraded recently.



Carramar centre, view through to train station entry. Source: RobertsDay

Built Form & Land use

Residential

Carramar is predominantly low density residential featuring mostly single storey detached homes. Density increases slightly closer to the train station and Prospect Creek.

Retail + Commercial

There are two small neighbourhood centres within Carramar that contain the area's limited retail and food and beverage offerings. These are along Wattle Avenue, adjacent to the train station and along The Horsley Drive. There are approximately 10 restaurants, bars and coffee shops in Carramar, and whilst limited in numbers, they are specialty shops (affordable wholesale and luxury goods; gelato, pistizzi and cake merchant). People in Carramar can walk to an average of 0.8 restaurants, bars and coffee shops in 5 minutes.

Other commercial uses include a limited number of key community services within the neighbourhood centers and spotted within the residential areas. These include a nursing home, NSW ambulance centre and various not-for-profits, including family-based services.

Heritage

Key heritage assets within Carramar include Carramar Railway Station (originally names South Fairfield Station) and the steel Sandal Crescent Railway Bridge, built as part of the extension of the Lidcombe-Regenets Park Line to Cabramatta, constructed in the early 1920sa. The structure provides landmark qualities and complements the setting within the river parkland at Prospect Creek.

Carramar is also home to one of Sydney's oldest trees, the Bland Oak, planted in 1830s by William Bland.

Prospect Creek and Open Spaces

Historically, Prospect Creek was the focus of recreation and meeting place for social gatherings for the community with trails for walking and recreational areas for boating. Due to development backing onto the river frontages with limited visual and physical connectivity between the neighbourhood and the creek, Prospect Creek has become underutilised and the "back waters" (Carramar, Urban Design Study).

Prospect Creek is a significant open space system that forms part of the Sydney Green Grid. Other open spaces within the study area include Carramar Avenue Park and Sandal Crescent Reserve. Whilst the combination of the creek and the neighbouring open spaces present as significant assets to the centre, current conditions are constrained due to difficult access, challenged perception of safety due to lack of passive surveillance and limited activity.



Sandal Crescent Reserve, Carramar. Source: Google

CULTURAL CONTEXT

The most common country of birth in Carramar is Australia (37.6%), followed by Vietnam (14.6%) and China (3.6%). Over 66% of the population speak another language other than English, which is significantly higher than Greater Sydney (35%). Whilst the diversity in culture is not as prevalent in Carramar compared to other centres across Fairfield, residents still consider community and cultural activities extremely important to their sense of identity and hope to see cultural representation increase across the neighbourhood. As shown below, there is currently a limited number of community events in Carramar, with community-based organisations such as Woodville Alliance providing the means for most social activities held in the area. Residents have expressed a desire for there to be more activities for various age groups, particularly for children and youth.

Key suggestions included: (2163 In Focus Report, 2018)

- Before and After School Care service
- Dialogue between services and community regarding events such as a monthly BBQ in the park, newsletter and an online "what's on" portal
- Use of abandoned buildings within the area to provide community services



The Community Centre located in the heart of Villawood/Carramar is a key community gathering point. Located along Mitchell St and The Horsley Drive, provides meeting rooms, access to information via internet, phone or photocopier, advice and referral services, financial counselling, Centrelink support, tenancy advocacy and more.



Woodville Carramar Community Hub offers free school holiday activities Source: https://www.facebook.com/pg/woodvillealliance/posts/



Canley Vale High School is a local community hub located across Prospect River to the west of Carramar. CVHS enables hiring of the school's facilities to members of the community and education groups when not in use by the school.

Spaces and Types of Events held in Carramar City Centre to date

	•		•	Ī	i
NAME	TYPE	WHAT'S ON	SIZE	WHEN	LOCATION
Carramar Community Hub (Woodville Alliance)	PE	Social Activities, Educational Activities, School Holiday Programs	S - M	Weekly	130 Wattle Avenue, Carramar
Carramar Early Learning Centre (Woodville Alliance)	PE	Social Activities, End of year celebrations	S - M	-	7 Karella Avenue, Carramar
National Tree Day	PE	Environmental Activities	М	Annually	Carrawood Park Waterside Crescent

NOTES

Type = (Festival, Pop-up Exhibition, Public Event, Private Event)Size = Size has been categorised into Small, Medium, Large and Extra Large and refers to both the dimension of the space required for that event and the number of people that typically attend.

For example, a Small event could be a pop-up exhibition that requires an intimate setting to view artworks by a group of 30-50 people at a time. An Extra-Large event could be a festival such as the Cabramatta Moon Festival that is attended by 90,000 people every year and which takes place across the entire town centre of Cabramatta. No. of people = That attended last year



Carramar Early Learning is another Woodville Alliance facility hosting community events such as the end of year celebration.



National Tree Day is one of Australia's most popular community tree-planting and nature care events.

INFLUENCES ON CHANGE

Identifying the future character of Carramar requires an understanding of external factors that will shape the community in the future. A number of key external factors influencing change have been identified, ranging from social, environmental, economic and cultural spheres and noted from the place audits, desktop research and consultations with stakeholders.



Changing demographics and aging population and increasingly living in smaller dwelling sizes.



Increasing median weekly household income, increasingly university educated and reduced levels of unemployment.



Rail services developing and direct CBD service impacts following the completion of the Metro Train service.



Increasing population density with increasing daily needs and potential shopping market.



Market demand and aspiration for densitification.



Enhancement of Prospect Creek and associated green spaces as key recreational facility.



Increase in use of active transport cycleway networks to access local services.

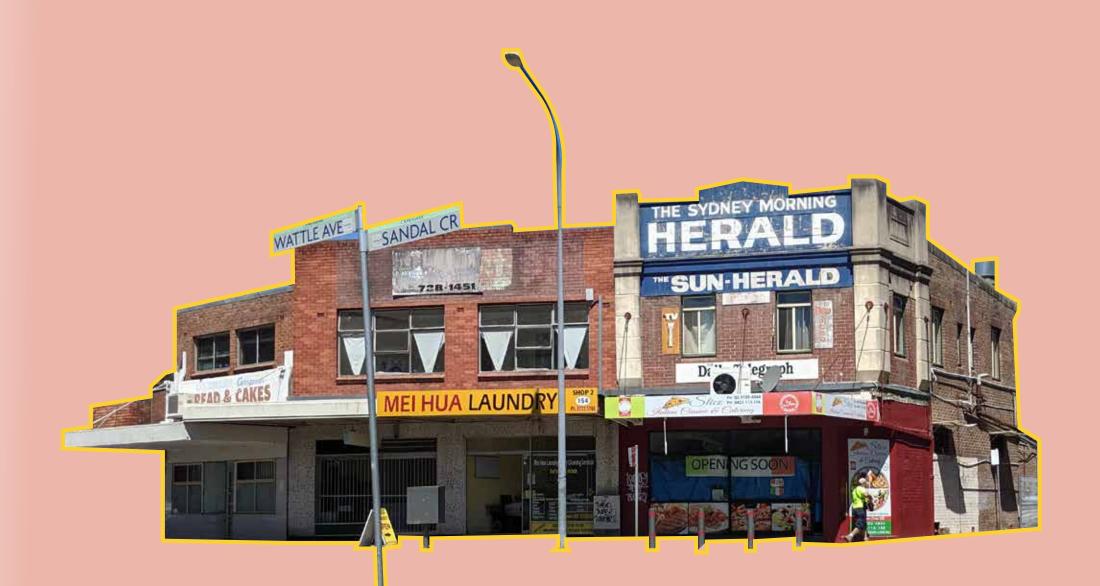


Aspiration for growth in 'Recreational Tourism'.



Chapter 2 Place Identity

- 01. WHAT IS PLACE IDENTITY?
- 02. DEVELOPMENT OF CURRENT PLACE IDENTITY
- 03. CURRENT PLACE IDENTITY
- 04. FUTURE PLACE IDENTITY



01. WHAT IS PLACE IDENTITY?

INTRODUCTION

Place identity is a relatively recent concept which can be defined as below.

"Identity represents small-scale places, such as city quarters or street level, to provide features that create a recognisable image of the place and its residents to differentiate from other places. It provides special feelings through physical, social, sensory and memory perspectives; such feelings include both positive and negative emotions."

Place Identity is an important dimension of social and cultural life in urban areas, and is strongly linked to place attachment and sense of belonging. Feelings of attachment and belonging are important crucial to establish an emotional and cognitive bond with a place, and lead to feelings of security and sense of community.

Place Identity is all-encompassing - it is understood by the activities and events that take place across Fairfield's centres, and how people perceive it. It is not only confined by its physical form and boundary, but also the human experience and what form of psychological attachment people have with the precinct.

Why Study Place Identity?

The diversity of urban centres reflects the diverse identities in our society. It is clear that the Centre's of Fairfield carry a strong emotional connection for some people, and it is important that these layered and complex connections are recognised during the planning of the Public Domain Plans. The intended outcome is an authentic, special and hyper-local place.

The Past, Present and Future

RobertsDay and EP have developed a framework to understand the past, existing and desired Place Identity of Carramar Town Centre. This is communicated in the following sections.



 α

02. PAST PLACE IDENTITY?

PLACE STORY

EARLY

1800S

1814

The following diagram captures defining moments in Carramar Centre's past.

FIRST PEOPLES For 30,000 years prior to European settlement Aboriginal people have lived in the Sydney area. The Cabrogal clan of the Darug people lived in the present-day Fairfield LGA. 1850

ICONIC TREE PLANTING

One of Sydney's oldest trees, the Blank Oak, was planted in Oakdene Park and Bland Street by a well-known doctor and politician Dr William Bland.

CARRAMAR PUBLIC SCHOOL

Formerly known as
Villawood Public School
was established in 1924
on land previously known
as Mark Lodge Estate.
The land was granted
to James Gowan in 1816
for farming purposes.
Subsequent owners were
Captain John Horsley,
Doctor William Bland and
John Hamilton.

1914

wwi

RAILWAY LINE CONSTRUCTION

Carramar's development coincided with the extension of the railway line from Regents Park to Carramar (then South Fairfield).

CARRAMAR STATION

Opened as South Fairfield on 15 May 1924 and was renamed Carramar on 1 July 1926.

BIRTH OF

John Horsely purchased 700 acres in the centre of Fairfield and named the area after his family estate, Fairfield Manor in Somerset, England.

1830S

INDUSTRIES

MAIN

At this time, land was used mainly for timber logging, farming and vineyards.

SOLDIER SETTLE SCHEME

The Australian
Government set up
the 'Soldier Settler
Scheme' Post WWI
with an influx of
European migrants
settling in the area
to work in labour
roles including farms
and factories.

'SHADE OF TREES'

The town's name was changed to Carramar, an Aboriginal word meaning 'shade of trees'.

BOATING PARTIES

1924

19205

The Lansdowne Bridge area at Prospect Creek became a popular recreation spot for boating parties. The Howard Family provided 'refreshment rooms' from their nearby property and hired out rowing boats.

1926

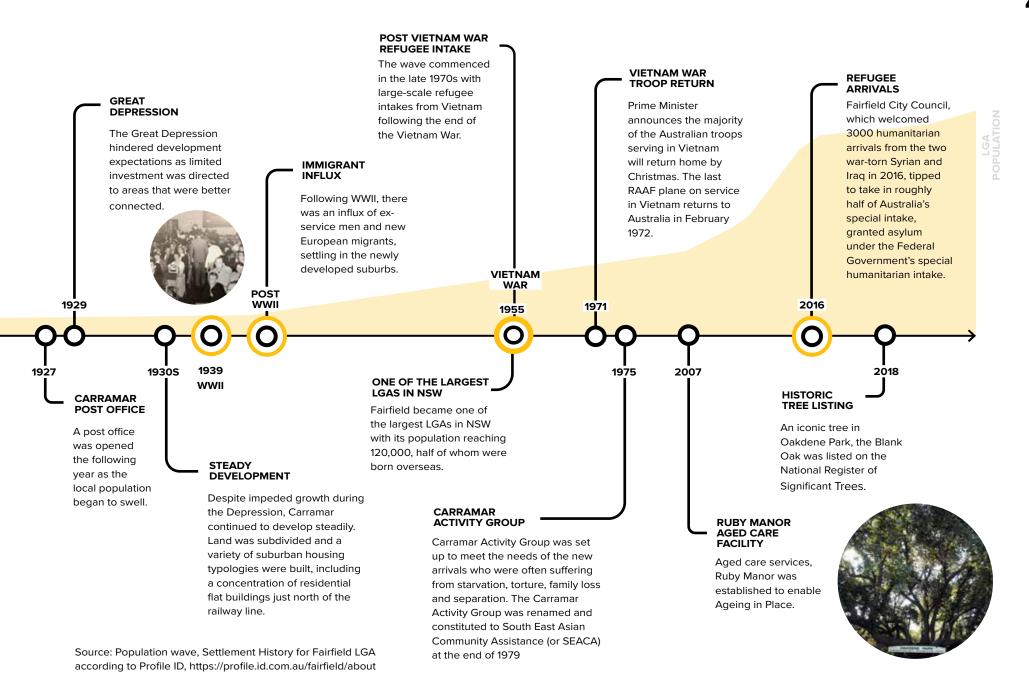
FIRST SETTLEMENTS

British colonial authorities granted large parcels of land to settlers and ex-convicts in the area for farming and agriculture.

SIGNIFICANT LAND OWNER

18805

Dr William Bland was a significant land owner in early colonial times. He is remembered in Fairfield City Centre with a plaza.



HISTORIC SNAPSHOTS

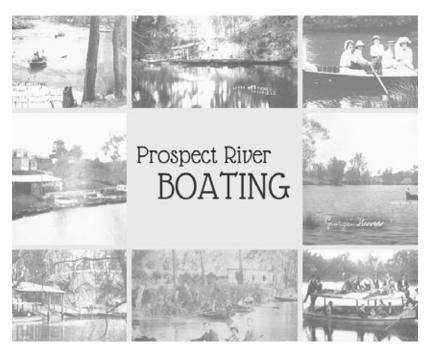
A look at two historic places that still exist within Carramar Town Centre today and continue to have an influence on the identity of its public domain.

PROSPECT CREEK

During the 1920s, the Fairfield area was well-known as a picturesque recreational spot for picnics, boating and swimming. With landscaped gardens and country residences along the water's edge, boat trips and 'boating parties' down Prospect Creek were a particularly popular tourist attraction. Passing under the archway of the Lansdown Bridge and seeing the charming von Heiden estate (now Heiden Park) were considered to be some of the highlights of these boating trips.

The federation-style tower (thought to have been a pigeon loft or grain store) was part of the series of buildings on the von Heiden estate and still features in the park today. Another highlight was the Howard Family's 'refreshment rooms' and hired rowing boats they provided to picnickers from their property along the river.

"With landscaped gardens and country residences along the water's edge, boat trips and `boating parties' down Prospect Creek were a particularly popular tourist attraction."



Prospect River Boating

SWIMMING & FISHING

The Fairfield area was also known for its many swimming and fishing spots.

Residents gave their favourite swimming spots unofficial names such as such as the 'Pirate's Hole,' 'Rocky' and 'Sandy' waterholes, which were on 'Horseshoe bend' on Prospect Creek, while 'Rocky Bottom', 'Gales Creek' and 'Lukey's Hole' were on Orphan School Creek.

Some residents also remember jumping from the top of the Carramar Rail Bridge into the Georges River.

"Some residents also remember jumping from the top of the Carramar Rail Bridge into the Georges River."



Swimming spots along the Prospect Creek

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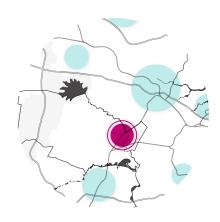
03. CURRENT IDENTITY

PLACE ATTRIBUTES

Place Attributes are key characteristics of a place. These have been understood through a range of research methods including desktop research, place audit, and stakeholder engagement.

LOCALITY SCALE

This scale identifies attributes commenting on Social - Demographic.



A place of new settlement



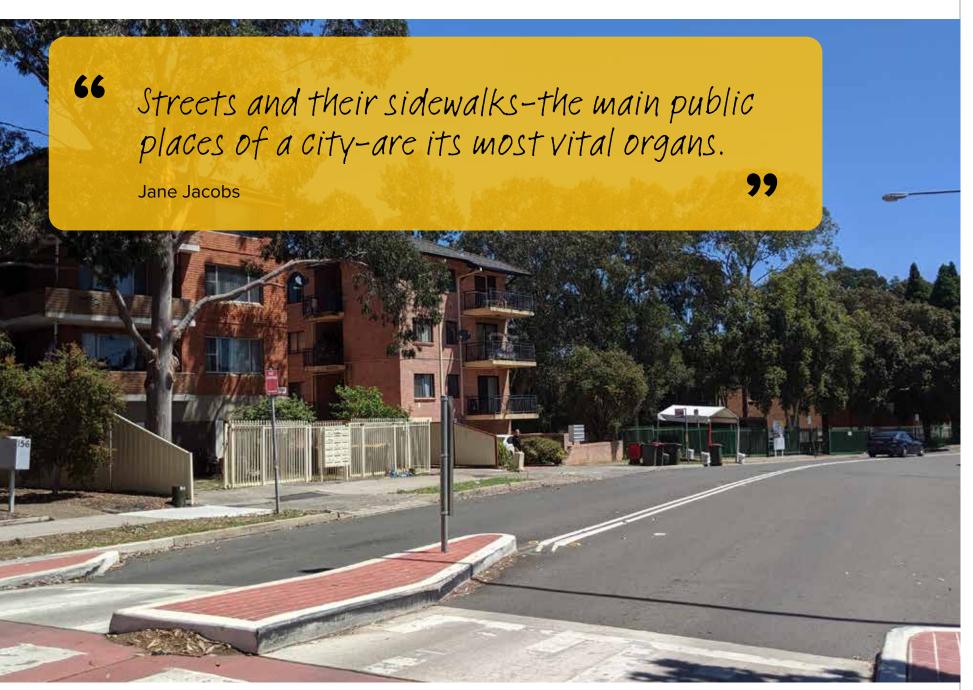
- 11% of population have moved there in the last 5 years
- 14% of the population is Vietnamese
- Low household income and low SEIFA score. 44% of households are renters.

Disconnected



- Disconnected by the creek from neighbourhoods to the west
- Railway line acts as a barrier, disconnecting the north and south of the centre, limiting access
- Poor pedestrian and cycling connectivity to surrounding neighbourhoods
- Limited public transport options.
 Residents rely on train to get to other centres for interchange

- Bus stops to River Avenue: 400 metres away but with limited pedestrian paths to access the station
- There is a council bus to the station, but it has limited operation
- Town centre is surrounded by a high density of 3-4 storey walk-up apartments accessing the town centre for everyday needs



PLACE ATTRIBUTES CONTINUED

DISTRICT SCALE

This scale identifies attributes commenting on:

Memory - Social constructs and perception.

Physical - Urban pattern (block and street patterns), Typologies & grain quality, building heights, green networks, land use & activities, heritage areas, and key spaces & view corridors.

Physical/Social/Memory - History.



Constrained access, utilisation and an imbalance of green space



- Carramar has a high supply of corridor open space, generated from the flood prone areas adjoining the creek corridors – however this is focused along the creek line – and is often poorly accessible and used by the public.
- Towards the north of the railway, there is conversely a lack of open space serving the residential neighbourhood (also identified in Carramar, Urban Design Study)



- Most residents to the south of the railway line can access a park within a 400m radius. However, for residents north of the railway line there are no parks within easy walking distance.
- Carrawood Park, in the south, is largely sports focused and lacks informal and social uses within the space.



- Studley Neighbourhood Park is valued by the community and contains play equipment, but lacks sense of enclosure, passive surveillance and structured tree planting. This is further compounded by its irregular shape and blank edges.
- Centre turns its back on Orphan School Creek
- Sandal Crescent Reserve is the only access point to the creek beneath bridge
- Limited open space to north neighbourhood
- Underutilised green spaces and natural assets

Constrained connections to the creek and open spaces



- Parkes Reserve, Orphan School Creek headland and Carrawood Reserve and oval are significant open spaces but have limited connections to the centre
- Limited visual connections and reference between the centre and the creek
- Headland parks (focused at bends in the creek) are difficult to access and are often perceived as unsafe on account of lack of passive surveillance and little activity.
- Streets are disconnected from the creek by residences

Challenged amenity



- Sandal Crescent is informal and lacks sense of safety and security.
- Carrawood Reserve is somewhat sparse and lacks safety, security and things to do
- Limited pedestrian footways and kerb crossings to verges
- Narrow pedestrian and cycle underpass under railway at Station

Contrasting through traffic conditions to east and west



- No heavy through traffic to western
- Busy through and heavy traffic to eastern hub
- Carramar has two small retail / commercial strips
- The western strip adjoining the rail station does not lie on a through route



PLACE ATTRIBUTES CONTINUED

STREET/BLOCK SCALE

This scale identifies attributes commenting on:

Physical - Movement & Accessibility, Street Network, Built Form & Landuse and Key spaces.

Physical/Social - How residents interact with space/patterns of use.

Memory - Stories from people about place, Sites with particular meaning for people.



Soft and green, but lack of trees and vegetation in public domain



- Multiple views and vistas of green character
- Trees focused in private domain and within railway boundary

Large setbacks with trees and vegetation



- Tall tree canopies providing shade
- These play an important role in greening the street with only 11% of streets with some awning and public domain street canopy cover

Tired and aged in appearance



- Streetscape and built form to both hubs appears tired and aged, in particular to the east, to Horsley Drive
- Vacant shops
- Large shop windows potential to create an active interface to the street, allowing the private spaces to become publicly viewed



SUMMARY OF PLACE ATTRIBUTES

OPPORTUNITIES

No heavy through traffic to western hub		
A place of new settlement		
Landscaped setbacks with trees and gardens		
Multiple views and vistas of green character		
Tall tree canopies providing shade		
Tree canopies on private domain contribute greenery and shade to public domain		
Prospect Creek access under bridge at Sandal Crescent Reserve		
Proximity to numerous parks and open spaces		
Proximity to Fairfield City Centre and Villawood Town Centre		
Proximity to Cabravale and Fairfield Leisure Centres		
Railway Station linking Sydney, Bankstown and Liverpool		
Proximity to a natural creek edge		
Historic Place Story, from Indigenous through to First Settlement times		

Geoglaces GD

CHALLENGES

Busy through traffic and heavy traffic to eastern hub
Streets are disconnected from the creek by residences
Limited public access, connection or reference to the creek corridor
Railway divides north and south neighbourhoods and limits access by car, foot and cycle
Restricted access across creek to other open spaces and neighbourhoods
Poor pedestrian and cycling connectivity to surrounding neighbourhoods
Bus stops to River Avenue: 400 metres away and with limited pedestrian paths to access the station
Limited pedestrian footways and kerb crossings to verges
Limited open spaces north of the Railway line for residents
Tired and aged appearance to both hubs in particular the eastern to Horsley Drive
Underutilised green spaces and natural assets
Lack of trees situated in public domain
Carrawood Park is largely sporting focused and lacks informal and social uses
Narrow pedestrian / cycle underpass under railway at Station

The attributes will be addressed within the Chapter 3 - Place Framework, Strategic Briefs and Chapter 6 - Structure Plan of the report.

A VISION FOR CARRAMAR TOWN CENTRE

Carramar, Aboriginal for "shade of trees" is a centre defined by its distinct natural beauty.

Radically different in physical geography to other local centres in Western Sydney, it is inherently special – happily located on the dramatic Prospect Creek and beneath the tall, leafy canopy of trees.

Carramar's streets weave to and from its tranquil waterfronts, paving the way for walking and cycling routes to local shops, places of work and public transport.

Carramar's special cultural and demographic diversity is embodied in its physical characteristics - in its streets, public spaces and shopfronts.



04. FUTURE IDENTITY

The four themes identified below, support the Centre's Future Vision, describing the intended character outcomes for Carramar Town Centre's Future Place Identity.

CARRAMAR TOWN CENTRE IS...

TRANQUIL

Sitting in the shade of tall trees, and with physical and visual access to the creekfront, Carramar is nestled within nature.

It's a place where people feel calm and relaxed, and enjoy the respite from fast-moving traffic, bustling shopping centres and dominating infrastructure.

RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and residents.

Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.



PRECEDENTS

BERRI HISTORIC RIVERFRONT WALK, SA

THEME: TRANQUIL

Located alongside the riverfront, the easy 1.4km walking trail begins at a mural beneath the river bridge. The walking trail leads to a local cafe at the marina. The walking trail has complete waterfront visual connectivity, with steps, jetty and ramps for physical access. The walk also connects to an extended recreational circuit trail which includes scenic views, Aboriginal heritage murals, war memorials, historic crossings and a ferry landing.

Key measure:

Waterfront public access: 100%

THEME: LEAFY

The Riverfront is surrounded by mature tree planting fronting the water, providing comfortable amenity and relief for people to enjoy.

Key measures:

Tree Canopy: 27%Green View Index: 30%

THEME: RESTORATIVE

Along with the grassy open space area fronting the water, the Riverfront is a local place for residents to enjoy a diverse range of everyday activity such as walking, cycling and exercising overlooking the water and scenic views. Key walking routes connecting to other green links provides a continuous active recreational circuit for people to enjoy.

Key measure:

• Diversity of open spaces: 6/11







Sempleces (C)

GLEBE POINT ROAD, GLEBE

THEME: VILLAGE

Access to shops, services and goods set along easy and comfortable walking conditions, with street trees lining the edges, tactile materials and soft elements including planters with feature flowers, views to surrounding assets and clear wayfinding contribute to a people-prioritised village setting.

The consistent fine grain built form aligned along the street with the provision of active frontages, awnings and slow traffic support an engaging and relaxed local scene.

Key measures:

Building entries: 15-20 per 100mDistance from kerb to facade: 1.5-3.5m

Pedestrian through-zone: 2.4m

• Hybrid space extending into public space: 1.5-2.1m







Chapter 3 Place Framework



01. PLACE PRINCIPLES

From the Best Practice Frameworks identified earlier in the document (reference Appendix 4 - Best Practice Frameworks), a series of core values have translated into 'Place Principles'. These Place Principles become pillars of ensuring future outcomes align and deliver best practices.



People Places

Places where people are prioritised over other forms of transport, and the pleasures of everyday life are accommodated for. These are places that are human in scale, and where people can connect to one-another.



Places for all

Inclusive places where people of all ages, backgrounds and abilities want to spend time.



Comfortable & Interesting

Places that people are drawn because they provide pleasant environments to meet, gather and stay. These are places that provide ease of movement, shade and shelter and include interesting things to see and do.



Celebrate Public Life

Places that emphasise street and public life - where everyday activities are a natural part of the public realm



Healthy Places

Places that encourage physical movement and healthy lifestyles. These are places that are safe, have clean air, aren't too noisy, and where people choose to walk and cycle.



Functional

Places that work for their intended use and have the potential to adapt and change if necessary.



Place-Responsive

Authentic places that the community has a sense of attachment to, and ownership over. They reflect the functions and values of the historic and living cultures.



Environmental & Resilient

Places that contribute positively to environmental outcomes. They are adaptable, durable and minimise energy and water consumption.



02. STRATEGIC BRIEFS

The Public Domain Plan for Fairfield Centre's align with Council's four year review of the Delivery Program cycle, that sets out the projects, programs and services Council has committed to deliver.

The following strategic objectives have been informed by the four Place Identity themes underpinning the Future Vision of the centre, Place Principles, place context and consultation outcomes with stakeholders.

TRANQUIL

Sitting in the shade of tall trees, and with physical and visual access to the creekfront, Carramar is nestled within nature.

It's a place where people feel calm and relaxed, and enjoy the respite from fast-moving traffic, bustling shopping centres and dominating infrastructure.







	Create a shared, community focal point for the community that allows for gatherings of locals and visitors.	
Planning & Design Objectives	Facilitate the development of identifiable, distinct places that allows people to form a mental connection and attachment to them.	
Objectives	Improve connections between the small retail hubs, the neighbourhoods and across existing physical barriers.	
	Improve safety and security of the centre.	
Events & Activation Objectives	Promote calming and relaxing conditions to facilitate social connection, amenity and physical comfort in the centre.	
Economic Development Objectives	Leverage the natural setting appeal of Carramar Town Centre that will attract new businesses.	

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and future residents.

Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

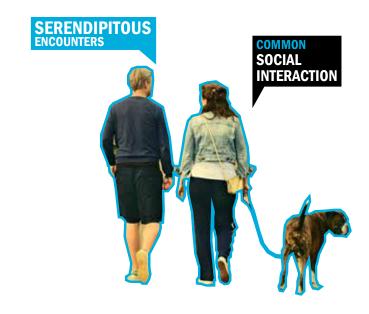


Diaming & Design	Improve existing - and create new - publicly accessible places that create a sense of peace and quiet.	
Planning & Design Objectives	Retain streets without heavy traffic that are uninhibited by overbearing noise, provide for easy access, and have a strong green character.	
Events & Activation	Facilitate ongoing collaboration across the community.	
Objectives	Enhance the display of daily life activities in the public domain.	
Economic Development Objectives	Improve the local centre role of Carramar.	



RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.



	Improve the overall look and feel of the centre to make it more attractive.	
	Enhance visual connectivity with the creek evoking a place that is embedded within nature.	
	Ensure physical connectivity with the creek that allows people to move along it, dip their toes, throw stones and easily cross over bridges with views of the water below.	
Planning & Design Objectives	Enhance existing local parks and create new parks to enhance the green character of the neighbourhood, enable physical activity, and encourage lively places across the day and week.	
	Improve the active travel connections that Carramar can share with surrounding centres to help knit its social fabric and improve physical wellbeing by promoting walking and cycling.	
	Improve active travel connections between local parks that create connected play and exercise spaces.	
Events & Activation Objectives	Create opportunities for organised group exercise and wellness activities in public spaces.	
Economic Development Objectives	Improve the visual attractiveness of shops and facades within the Centre.	

LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.



	Supplement existing tree canopy and green character that helps to cool local streets and public spaces.
Planning & Design	Conserve existing trees and enhancing gardens within private setbacks.
Objectives	Enhance the green identity of the centre by retaining views of green canopies from the retail centre.
	Improve the ecological quality of the creek corridor vegetation system.
Events & Activation Objectives	Encourage the use of green spaces and riverfront for relaxation and passive recreation.
Economic Development Objectives	Leverage Carramar centre's liveability qualities to attract business and investment.

Chapter 4 Activation + Economic Development

- 01. EVENTS AND ACTIVATION BRIEF
- 02. ECONOMIC DEVELOPMENT BRIEF



01. EVENTS + ACTIVATION

INTRODUCTION

Place Activation refers to the activities that occur in a physical place. They bring energy to public spaces, create social connectivity and help build the identity of place. Where possible activations should align with the Future Vision, four Future Place Identity Themes and Objectives for the centre set out in the Strategic Briefs.

The role of Place Managers

The most cost-effective and powerful way for local government to support place activation is by allowing it to happen through community initiatives. With strong ties to the community, Fairfield's Place Managers have the embedded knowledge to champion and facilitate such initiatives. A place manager can:

- Liaise with internal and external stakeholders
- Improve internal processes to address regulatory blocks and barriers and make it easier for internal staff as well as local businesses and residents to activate places
- Be made responsible for the delivery of an holistic and place based program of events and tactical urbanism projects
- Promote place branding and economic development through events
- Get everyone working together towards activating places, and in the process breaking down internal and external silos, and building trust in local council





Example

"Fairfield Markets Concept - a celebration of food and crafts at the city's gateway train station"



EVENTS AND ACTIVATION BRIEF

The following strategic Objectives and corresponding Key Actions identified below address the four Future Place Identity Themes underpinning the Future Vision of the centre.

The Objectives set out in the Event and Activation brief are aspirations to consider to deliver socially and culturally beneficial place-based outcomes.

TRANQUIL

Sitting in the shade of tall trees, and with physical and visual access to the creekfront, Carramar is nestled within nature.

It's a place where people feel calm and relaxed, and enjoy the respite from fast-moving traffic, bustling shopping centres and dominating infrastructure.

Events & Activation Objectives	Key Ac	Key Actions	
Promote calming and relaxing conditions to facilitate social	1	Provide natural vegetation buffering to create buffers between the pedestrian realm and traffic thoroughfares.	
connection, amenity and physical comfort in the centre.	2	Promote the increase of 'greening' by incentivising building facade treatments that reflect the natural character of the centre.	

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and future residents. Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

Events & Activation Objectives	Key Actions	
Facilitate ongoing collaboration across the community.	3	Encourage participation and engagement of the community and business owners in the development of events and activities programme within the centre.
	4	Facilitate tactical activation initiatives to promote interactive and engaging activities within the centre, particularly near local shops and the train station.
Enhance the display of daily life activities in the public domain.	5	Promote outdoor dining and seating near local shops to encourage socialising within public spaces in the centre.

RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.

LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.

Events & Activation Objectives	Key Actions	
Create opportunities for organised group exercise and wellness	6 r	Develop a Cultural Strategy which includes a recreational precinct Trail integrating access to open spaces, water and wellness elements.
activities in public spaces.	7 r	Provide integrated public art, furniture and wayfinding elements along the precinct Trail that promotes exercise opportunities for all.

Events & Activation Objectives	Key Actions	
Encourage the use of green	8	Develop wayfinding elements to promote access to green and riverfront spaces.
spaces and riverfront for relaxation and passive recreation.	9	Support the development of a recreational programme of events in green and riverfront spaces.

02. ECONOMIC DEVELOPMENT

INTRODUCTION

Place-led economic development focuses on the unique features of a place, and using them to attract new investment and strengthen existing businesses. Because the way a place is perceived is formed by its strong, distinctive elements, place-led economic development is particularly important in today's age of tourism.

Types of place-led economic development include:

- · Encouragement of local artists and musicians;
- Facilitation of Business Improvement programmes;
- Activation of public spaces to increase visitation; and
- Communication of a place's businesses, event's and activities to a wider audience through place branding and marketing.
 This last point is explained in more detail on the following page.





Place branding

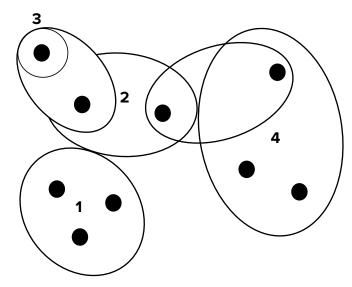
As part of wider urban strategies, place marketing and branding techniques are used in order to market, as well as promote change in a centre. In particular, research suggests that it is the cultural identity of a place that often becomes the subject of branding and form a strong, distinct element in their promotion.

Place branding can be useful for Fairfield City Council to promote its local centres to the public and in turn, drive economic development. It can also help council regarding cultural planning and prioritising funding allocations.

Place brand clustering

Based on analysis of Place Identity commonalities and differences, Fairfield's 9 centres have been clustered into 4 groups to assist council with Place Brand strategies. These clusters include:

- Cabramatta, Canley Vale + Canley Heights
- Fairfield City, Fairfield Heights
- Smithfield + Fairfield Heights
- Yennora, Carramar and Villawood



Illustrative overview of identity clusters of centres.



ECONOMIC DEVELOPMENT BRIEF

The following strategic Objectives and corresponding Key Actions identified below address the four Place Identity themes underpinning the Future Vision of the centre.

The Objectives set out in the Economic Development brief are aspirations to consider to deliver an economically beneficial and place-based outcome.

TRANQUIL

Sitting in the shade of tall trees, and with physical and visual access to the creekfront, Carramar is nestled within nature.

It's a place where people feel calm and relaxed, and enjoy the respite from fast-moving traffic, bustling shopping centres and dominating infrastructure.

Economic Development Objective	Key Actions	
Leverage the natural setting appeal of Carramar Town Centre that will attract new businesses.	Promote Carramar's natural assets and recreational destination through the centre's brand positioning and marketing initiatives, appealing to health, recreation and wellness traders, in particular.	
	Support local businesses that leverage alfresco opportunities that capitalise on the tranquil, leafy setting.	

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and future residents. Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

Economic Development Objective	Key Actions	
Improve the local centre role of Carramar.	Support the pof day-to-day services need support local who can account within walkin	retail and ds that residents ess the centre
	4 Leverage the appeal of the through bran and marketin	centre d messaging

RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.

LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.

Economic Development Objective	Key Actions		
	5	Work with existing local traders and new operators to identify unique opportunities to present, and promote the local centre.	
Improve the visual attractiveness of shops and facades within the Centre.	6	Develop a Business Improvement District programme.	
	7	Work with local media to promote business achievements and case studies as an incentive to businesses to improve shopfronts and presentation.	

Economic Development Objective	Key Actions	
Leverage Carramar centre's liveability qualities.	8	Promote the green, tree-lined streetscape and accessibility to open spaces as part of Carramar's liveability positioning for housing and business investment opportunities.





Chapter 5 Design Implementation Framework

- 01. PRINCIPLES TO DESIGN TOOLKIT STRATEGIES
- 02. DESIGN TOOLKIT STRATEGIES
- 03. PLANNING & DESIGN BRIEFS



01. PLACE PRINCIPLES TO DESIGN TOOLKIT STRATEGIES

The Place Principles represent a distillation of the most effective Australian and International best practice and policy frameworks that are to be applied to public domain design in Fairfield. They are presented as a series of best practice 'values' translated into 'Place Principles'.

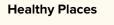
For each Place Principle, a series of Design Toolkit Strategies have been aligned to guide the delivery of the Place Principles. The Design Toolkit Strategies are described in further detail on the following pages.

Place Principles Comfortable & Interesting **People Places** Places for All Celebrate Public Life Pedestrian E At the Kerb E At the Kerb A Street Order through- zone **Design Toolkit Strategies** D Connectivity & Flow F Street Life F Street Life B Street Geometry G: Greening the Centre Loved Public Spaces Culture & Community

Place Principles

Design Toolkit Strategies





- D Connectivity & Flow
- G Greening the Centre



Functional

- A Street Order

 - E At the Kerb



Place-Responsive

- Pedestrian

 I Loved Public Spaces
- D Connectivity & Flow J Culture & Community



Environmental & Resilient

- A Street Order G Greening the Centre
- B Street Geometry F Street Life H Cool Streets & Spaces



Design Toolkit Strategies & Objectives

02. DESIGN TOOLKIT STRATEGIES

The 'Design Toolkit Strategies' focuses on ten key public domain design strategies derived from the review of best practice frameworks and which should guide public domain improvement and management priorities in the centre.

The Objectives of each Design Toolkit Strategy is described below, with further details including requirements, benefits, value add opportunities, and statistical benchmarks in Part D: Supporting Research, Appendix 1 - Design Toolkits Strategies.

A

STREET

Objective

To implement a clear street hierarchy and corresponding guidelines that are consistent across the Fairfield LGA and align with the Western Sydney Street Design Guide.



STREET GEOMETRY

Objective

To enhance pedestrian safety and priority by reducing traffic provisions to minimum requirements whilst still maintaining road functionality.



PEDESTRIAN THROUGH ZONE

Objective

To ensure that pedestrians have a safe and adequate place to walk that is clear of temporary and/or permanent obstructions depending on corresponding level of pedestrian activity desired.



CONNECTIVITY & FLOW

Objective

To improve pedestrian connectivity and reinforce the priority of the pedestrian in the street by providing continuity of footpaths and grade levels and consistency in sidewalk materials.



AT THE KERB

Objective

To ensure the kerb can be shared and utilized for a variety of functions/ activities and for multiple modes and user groups now and in the future.



STREET

Objective

To increase the vibrancy of the street life in the town centre by encouraging footway dining, controlled footpath trading and "noncommercial" gathering.



GREENING THE CENTRE

Objective

To increase the greenery in the town centre through improved landscape treatments, increased number of street trees, ensuring street tree planting has primacy in arrangement of street design influences and reinforcing ecological corridors.



COOL STREETS & SPACES

Objective

This strategy aims to provide a comfortable micro-climate within the town centre through the integration of low-impact pavement materials, street trees and other landscape features such as bioswales, pervious strips and rain gardens at the edge of pedestrian paths.



LOVED PUBLIC SPACES

Objective

To create human scale, loveable spaces that are inclusive, comfortable places that feel safe so people can enjoy, want to linger, socialise and spend time in. Public art and community-relevant installations should feature in public spaces to help the community develop attachment and meaning.



CULTURE & COMMUNITY

Objective

This strategy aims to leverage the strong existing arts and cultural presence in Fairfield by utilizing public space as a canvas for cultural expression for public art and/or community installations.



03. PLANNING & DESIGN BRIEFS

The following strategic Objectives and corresponding Key Actions identified below address the four Future Place Identity themes underpinning the Future Vision of the centre.

The Objectives set out in the Planning & Design Brief are aspirations to consider in delivering a place-based outcome.

TRANQUIL

Carramar Centre is warm and inviting in nature – it is where people feel comfortable, safe and are invited to spend time lingering. The Centre provides culturally specific good and services to create a sense of comfort.

Planning & Design Objectives	Design Toolkit Strategies		
	(E)	At the Kerb	
Creating a shared, common focal point for the community that	G	Greening the Centre	
allows for gatherings of locals and visitors.	(H)	Cooling Streets & Spaces	
Visitors.	(<u>i</u>)	Loved Public Spaces	
Facilitate the development of identifiable, distinct places that	(A)	Street Order	
allows people to form a mental connection and attachment to it.	(D)	Connectivity & Flow	
Improve connections between the small retail hubs, the	(A)	Street Order	
neighbourhoods and across existing physical barriers.	(D)	Connectivity & Flow	
	(B)	Street Geometry	
Improve safety and security of the centre.	(C)	Pedestrian Through-Zone	
	(E)	At the Kerb	
	(D)	Connectivity & Flow	

VILLAGE

Just like a village, in Carramar people know their neighbours. The friendly village atmosphere provides the perfect home for current and residents. Young children can safely walk to school or the local park, and there is a sense of belonging and attachment to the place, especially for newly arrived migrants, epitomised by people socialising in the village centre.

Planning & Design Objectives	Design Toolkit Strategies	
Improve existing - and create new	(B)	Street Geometry
	(C)	Pedestrian Through-Zone
- publicly accessible places that create a sense of peace and quiet.	(D)	Connectivity & Flow
	G	Greening the Centre
Retain streets without heavy	(A)	Street Order
traffic that are uninhibited by	(B)	Street Geometry
overbearing noise, provide for easy access, and have a strong green character.	G	Greening the Centre
	(H)	Cooling Streets & Spaces

RESTORATIVE

Carramar is conducive to a healthy lifestyle for people of all ages. Further, it's a reminder of the past where simplicity and slow pace create sense of calm and peacefulness, where people can quietly ride their bikes to the nearest centre or slowly walk their dog to the park.

Planning & Design Objectives	Design Toolkit Strategies		
	(B)	Street Geometry	
Improve the overall look and feel of	D	Connectivity & Flow	
the centre to make it more attractive.	G	Greening the Centre	
	(H)	Cooling Streets & Spaces	
Enhance visual connectivity with	D	Connectivity & Flow	
the creek evoking a place that is embedded within nature.	(H)	Cooling Streets & Spaces	
Ensure physical connectivity with the creek that allows people to move along it, dip their toes, throw stones and easily cross over bridges with views of the water below.	٥	Connectivity & Flow	

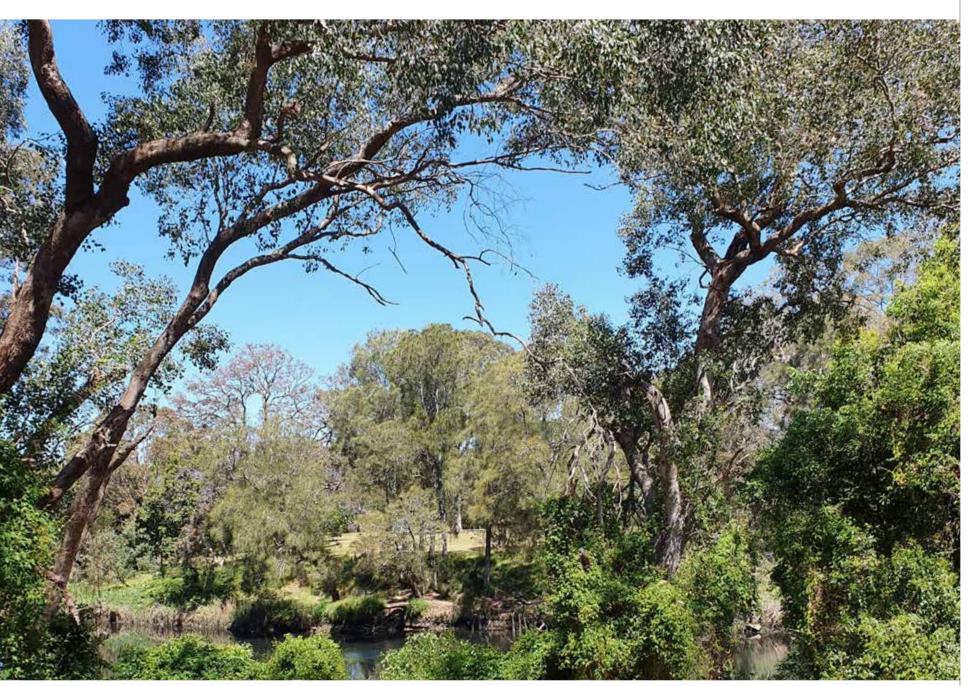
Enhance existing local parks and	(G)	Greening the Centre
the green character of the	(H)	Cooling Streets & Spaces
neighbourhood, enable physical activity, and encourage lively places	(i)	Loved Public Spaces
across the day and week.	(১)	Culture & Community
Improve the active travel	(A)	Street Order
connections that Carramar can share with surrounding centres to help knit	В	Street Geometry
its social fabric and improve physical wellbeing by promoting walking and	(C)	Pedestrian Through-Zone
cycling.	(D)	Connectivity & Flow
Improve active travel connections between local parks that create connected play and exercise spaces.	(D)	Connectivity & Flow

Planning & Design Briefs continued

LEAFY

The centre's shady and soft appearance - where tree canopies arch above and greenery lines the streetscape - is a cool, green, riverfront oasis.

Planning & Design Objectives	Design	Toolkit Strategies
Supplement existing tree canopy and green character that helps to cool local streets and public spaces.	(H)	Cooling Streets & Spaces
Conserving existing trees and	G	Greening the Centre
enhancing gardens within private setbacks	(H)	Cooling Streets & Spaces
Build upon the already green identity of the centre that ensures	(E)	At the Kerb
views of green canopies in all directions from the retail centre	(G)	Greening the Centre
and creates a green and soft character at the pedestrian level in the centre.	(H)	Cooling Streets & Spaces
Improve the ecological quality	G	Greening the Centre
of the creek corridor vegetation system.	(H)	Cooling Streets & Spaces



View of Prospect Creek

Part B public domain plan

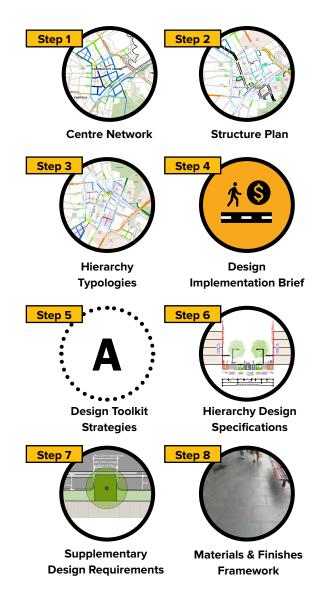
As you are cycling past the bakery in the morning and smell fresh-baked pastries, you can, on the spur of the moment, decide to jump off your bike and pick up a breakfast treat for yourself and colleagues on the way to work... How can we blend a commute into a stop at the shop and a social experience?

- David Sim, Soft City

HOW TO USE THE PUBLIC DOMAIN PLAN

The below diagram outlines a step-by-step guide to using the Public Domain Plan.

	Step 1	Establish the Strategic Context of the project location within the Centre Network (Refer to Chapter 6, page 104)			
	Step 2	Understand the project site context in the Structure Plan - Urban Design Framework (Refer to Chapter 6, page 116)			
	Step 3	Identify the relevant Hierarchy Typologies that relate to the project site (Refer to Chapter 7, page 120)			
How to Use Guide	Step 4	Identify the relevant priorities within the Design Implementation Brief (Refer to Chapter 7, page 126)			
How to	Step 5	Understand the relevant Design Toolkit Strategies to be able to achieve the Design Implementation Brief (Refer to Chapter 7, page 124, Appendix 1, 206)			
	Step 6	Apply the Hierarchy Design Specifications (Refer to Chapter 7, page 150)			
	Step 7	Apply the Supplementary Design Requirements (Refer to Chapter 8, page 174)			
	Step 8	Apply the Materials & Finishes Framework (Refer to Chapter 9, page 182)			





Chapter 6 Structure Plans

- 01. NETWORK OVERVIEW
- 02. LOCAL NETWORK
- 03. STREET HIERARCHY & CENTRE STRUCTURE PLAN
- 04. CENTRE STRUCTURE PLAN



01. NETWORK OVERVIEW

THE CENTRE NETWORKS

The Centres Network is the integrated system of access and green links that is proposed to connect Fairfield LGA's eastern centres.

The map on the opposite page indicates the pedestrian access gradients or "pedsheds" around each centre including a 200m, 400, and 800m radius.

In addition the local relationships between adjacent centres that can promote synergies and inter-relationships are reflected by the five clusters. The cluster that relates to Carramar centre is highlighted.

A series of major connections can link the centres and the communities between. The links will also take advantage of the open spaces and other features that lie along their routes. The connections include:

Avenues:

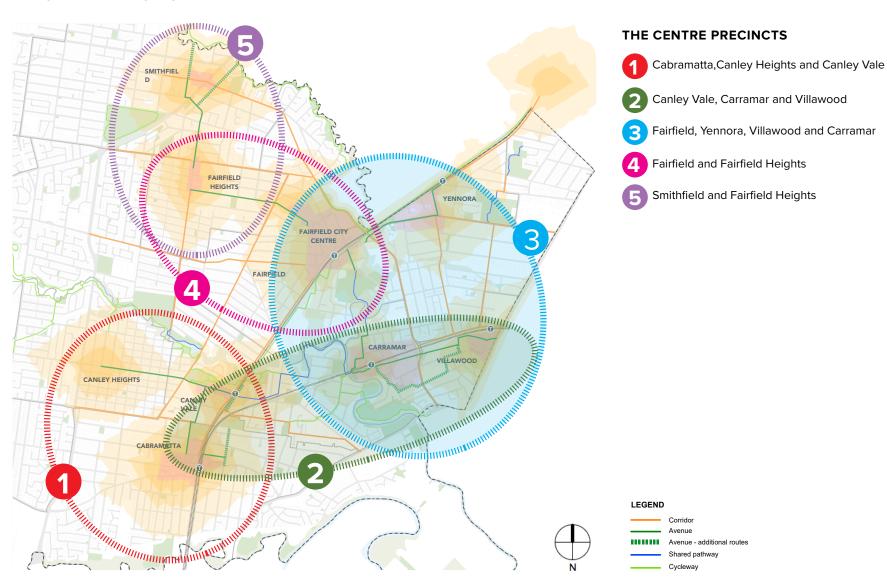
Cycle and pedestrian oriented links connecting centres and recreational and other destinations between.

Corridors:

Transport and vehicular oriented links between centres and across the LGA.

The key elements of these links are outlined on the following pages. The public domain guidelines provide guidance for enhancing the function and amenity of these corridors:

THE CENTRE NETWORKS MAP



02. LOCAL NETWORK

CANLEY VALE, CARRAMAR AND VILLAWOOD

Corridors:

- 1. River Avenue is the main vehicular transport corridor between Carramar and Villawood to the north side of the railway
- 2. The Horsley Drive is the main vehicular transport corridor corridor linking Villawood north and south. It also acts as a physical barrier between Carramar and Villawood

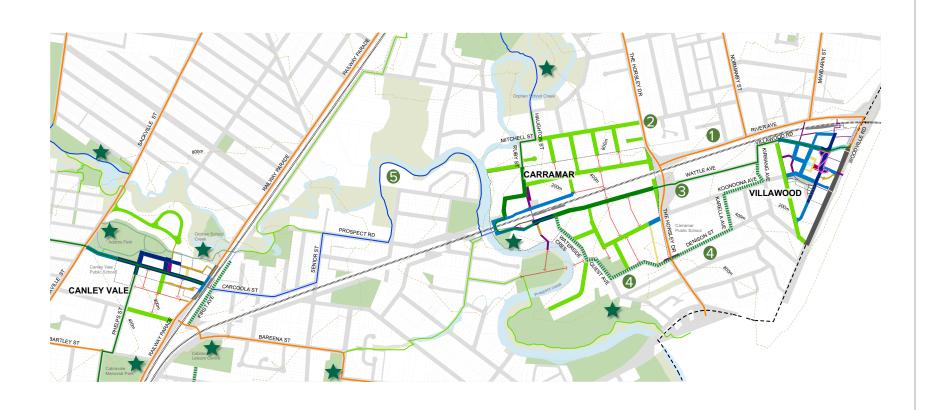
Avenues:

- 3. Wattle Avenue provides a key opportunity for cycle and pedestrian links between Villawood and Carramar using the existing underpass at the Horsley Drive
- 4. Denison street is a supporting avenue connection between Villawood and Carramar while also linking to Carramar Public School Carramar and Prospect Creek. The Hornsley Rd crossing could be supported by a pedestrian overpass

Supporting access:

5. There are limited direct avenue connections between Carramar and Canley Vale, however recreational access is available along the existing creek and road cycle access network

CANLEY VALE, CARRAMAR AND VILLAWOOD PRECINCT MAP





3 FAIRFIELD, YENNORA, VILLAWOOD AND CARRAMAR

Corridors:

- The Horsley Drive is the key collector road providing connections to nearby local centres of Yennora, Carramar and Villawood
- 2. Fairfield Street (east of Crown St) is the key eastern gateway into Fairfield LGA from the east and connects to Old Guildford
- 3. Crown Street provides a direct connection from Yennora town centre to Villawood North, connects to Ellis Parade/Railway Street to Yennora Rail Station
- 4. River Avenue connects the north sides of Carramar and Villawood

Avenues:

- Fairfield Street provides direct link from Yennora into Fairfield City Centre (south) and to the Prospect Creek open space corridor and shared path network, Patrician Brothers College and nearby Catholic Primary School
- 6. Vine Street provides a direct link between the city centre to Fairfield Park recreational areas, community facilities and shared path network which links to Carramar town centre
- 7. Wattle Avenue provides a direct link between Carramar and Villawood town centre with the benefit of an underpass at The Horsely Drive
- Waterside Crescent, Quest Ave, Dension Street, Koonoona Ave, Kirrang Ave route links Carramar Public school, a number fo small local open spaces including 'Karella Park" to both Carramar and Villawood Town centres

FAIRFIELD, YENNORA, VILLAWOOD AND CARRAMAR PRECINCT MAP

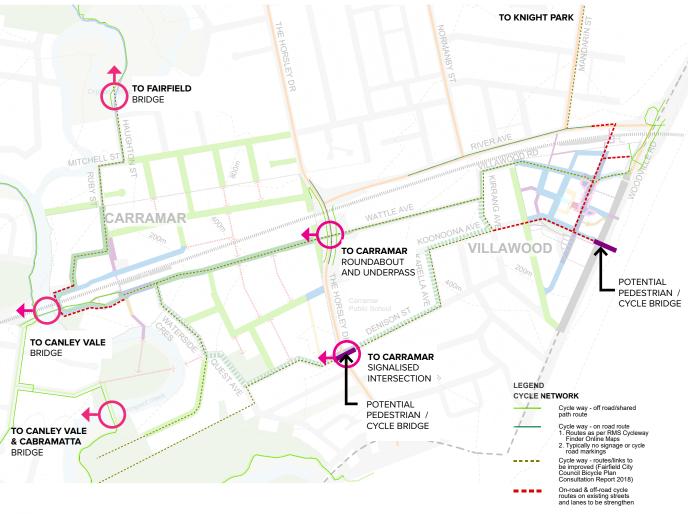


CYCLE NETWORK ENHANCEMENTS

There are a number of important cycle connections that will consolidate the cycle network between Carramar and Villawood and onto Fairfield and beyond.

Some key actions include:

- Develop cycle loop network between Carramar and Villawood
- Connect to path network in open space to north of Carramar providing access to Fairfield
- Investigate improved crossings of the Horsley Drive
- Investigate additional crossings of creek corridors







03. STREET HIERARCHY & CENTRE STRUCTURE PLAN

THE STREET HIERARCHY APPROACH

A street hierarchy defines an order between street types reflecting different varied movement, civic design and environmental goals and outcomes between each street type.

The Fairfield Centres street hierarchy provides the platform for the centre structure plan described on the following pages, and references the key elements for implementation of public domain improvements as outlined in chapter 4. Public Domain Guidelines.

The diagrams opposite illustrate the evolution of the proposed street hierarchy describing the formative influences that have shaped the final structure plan. The table this page summarises the Street Hierarchy for the Fairfield Centres Public Domain Plans. The table relates the hierarchy to the Western Sydney Street Guidelines, a key reference for street improvement across Western Sydney developed by the Greater Sydney Commission.

An abbreviated summary of key characteristics for each street / element is identified, providing an introduction to the more detailed and comprehensive definition of each element in the public domain guidelines.

- The guidelines in section 4 describe for each street element:
- its role and function;
- key parameters for its arrangement; and
- the materials and finishes recommendations for its implementation

STREET

Organising order of street and public space types reflecting a hierarchy of movement, civic, and environmental goals.



STRUCTURE PLAN

Plan defining the deployment and arrangement of the street hierarchy across the centre including the relationship of key linkages and spaces.



PUBLIC DOMAIN GUIDELINES

Specific guidance for each element of the hierarchy including role and function, spatial and design arrangement, and materials finishes.

Public Domain Guideline Elements

- pedestrians
- cycles
- transport
- vehicles
- parking
- culture

Arrangement

- spatial
- greening
- on street trading

Materials

- pavements
- planting
- furniture

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U	
great places	

Western Sydney Street	Fairfield Centre Public	Oh ann at a faith a		
Design Guidelines	Domain Plans	Characteristics		
NETWORK STREETS				
	MAJOR ROAD	Major transport corridor crossing multiple LGA boundaries		
		Transport corridor		
	CORRIDOR	Vehicular movement corridor		
COLLECTOR ROADS		Green link corridor		
	AVENUE	Pedestrian / cycle corridor		
		Vehicular movement corridor		
		Green link corridor		
		CENTRE STREETS		
		Slow traffic speed <50km		
		Regular pedestrian priority crossings		
	CORE HIGH STREET	Minimal driveway interruptions		
		Lanes widths minimised		
		On street parking		
		No though bus movement where possible		
HIGH STREET	MIXED HIGH STREET	Mixed use - traffic/ped & type of frontage activation(retail/resi/commercial/service)		
		Signalised crossings		
		Standard lane widths or more		
	CIRCULATION HIGH STREET	Potential clearways		
		Through bus traffic		
		Driveway access		
	SHADED ZONE	pedestrian priority tick and saving and savin		
	SHARED ZONE • Generally occurring over Core High Street	high pedestrian volumesgenerally no kerbs		
		max traffic speed 10km/hr		
	SHARED LANE	5-10m road reserve		
		Generally one way		
LANEWAYS		Accessible to pedestrians		
		Contrasting pavement to roadways		
	SERVICE LANE	5-10m road reserve		
		Generally one way		
LOCAL STREET		Local traffic		
	LOCAL STREET	No though bus movement where possible		
		CENTRE SPACES		
		Located at focal locations		
		Serve through or adjoining pedestrian traffic		
	CENTRE SQUARES / PLAZAS	Adjoined by civic or retail ground level activation		
		Target 30% green ground plane		
		Target 40% permeable		
		Integrate play experiences where feasible		
		Serve through or adjoining pedestrian traffic Provide for position and providers.		
	CENTRE PARKS	Provide for passive recreation		
		Provide for play experiences		
		Target 75% green ground plane		
		Target 80% permeable		

EVOLVING THE STREET HIERARCHY AND STRUCTURE PLAN

The proposed Street Hierarchy and Structure Plan evolve from the urban design study framework through a series of connectivity and open space strategies:

- Denison Street, Quest Avenue and Waterside Cres are potential avenues between Carramar Public School, the commercial hub and the Carramar centre core
- 2. Potential pedestrian/cycle bridge across The Horsley Drive to improve pedestrian/cyclists piority and safety
- 3. Entry section of Laurel Street to be High Street Mixed as it is the gateway area within the commercial hub
- 4. Potential new connection across railway corridor to improve connectivity
- 5. Redirect bus route and relocate bus stop to be more connective to train station
- 6. Widen and create amenity to underpass of station and provide lifts to station to improve accessibility
- 7. Provide public space to Carramar centre core for different ages group
- 8. Potential to maintain portion of existing carpark and turn it into multi purpose space
- 9. Introduce building setback to strengthen the north-south pedestrian link
- 10. Introduce building setback from Prospect Creek and invest walking and cycle infrastructure along the creek
- Introduce building setback to Carramar Avenue and Sandal Cres to strengthen the green connection between station and the creek
- 12. Alternative location of new public space to serve residents on east and south Carramar
- 13. Potential linear park to connect the new open space and station
- 14. Potential acquisition of land to create buffer zone between residential area and commercial activity

EXISTING STREET HIERARCHY



FUTURE DEVELOPMENT



CONNECTIVITY ENHANCEMENTS



POTENTIAL PUBLIC SPACES

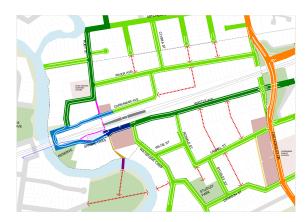


PROPOSED STREET HIERARCHY

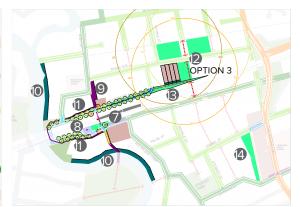


+ POTENTIAL CONNECTIVITY ENHANCEMENTS

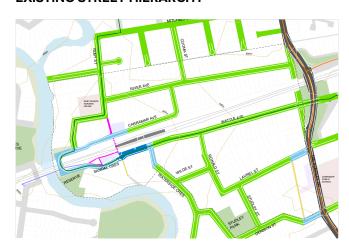
+ POTENTIAL PUBLIC SPACES

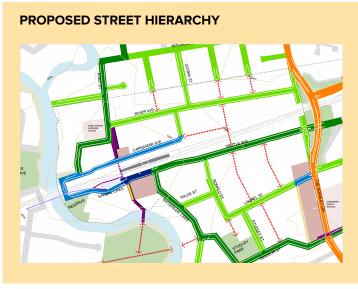






EXISTING STREET HIERARCHY







04. CENTRE STRUCTURE PLAN

THE STRUCTURE PLAN

The proposed Carramar Centre Public Domain Structure Plan on the following page, establishes a long term direction for public domain development and enhancement of Carramar.

The plan provides a reference to the key street types and highlights major public spaces, for which further design and materials guidance is provided in Chapter 7, 8 and 9. Each project should be subject to detailed design concept development having regard for this Public Domain Plan.

Fundamentally the plan seeks to:

- improve accessibility across the centre by enhancing ease and safety of pedestrian access and connectivity on all streets
- increase the green character of the centre
- consolidate and enhance existing reasons for people to spend time in the centre, and create new ways to enjoy the centre that will attract users and encourage community and street life

The Structure Plan does not aim to show all recommended street / public domain tree planting - this should be designed and implemented guided by the guidelines for each street type. The Plan does indicate important nodal tree planting opportunities.

Key recommendations are listed following as identified on the Structure Plan:

Streetscape and laneways

access corridor link to Fairfield

Provide enhanced street tree canopy to Carramar Ave and Sandal Cres with tree planting within the parking lane between parking spaces and in the street verge as feasible.

Create avenue promoting pedestrian and cycle access along Denison Street, Quest Avenue and Waterside Cres linking Carramar Public School, the commercial hub and the Carramar centre core

Upgrade block to Laurel Street adjoining The Horsley Dve as Mixed High Street to provide gateway to the Horsley Dve commercial hub

Investigate redirection of bus route and relocate bus stop in Carramar Ave to be more connective to train station

Progressive upgrade of pavements to town centre streets reflective of street hierarchy (all streets)

Provide footpaths to a minimum one side of all streets with compliant pram crossings to enhance ease and safety of access Strengthen green link from Sandal Cres to Ruby Street reinforcing

Create avenue promoting pedestrian and cycle access along Wattle Avenue between Carrmar and Villawood Town Centre

Parking

Conversion of portion of southern off street parking area to village square (refer 22). Compensate in parking provisions to new development

Pedestrian and cycle links

Provide wider through site link from north side of railway underpass to River Ave - potential development setback to facilitate

Investigate pedestrian/cycle bridge across The Horsley Drive to improve pedestrian/cyclists priority and safety

Investigate potential new connection across railway corridor to improve connectivity

Widen and improve amenity to underpass of railway line

Provide lifts to station to improve accessibility

Integrate raised pedestrian crossing with public domain footways Investigate better opportunities to access / experience natural habitat of creek corridor

Provide shared access lane / through site link from railway underpass axis linking to creek frontage - potential viewing point

Potential for 17 to link to new pedestrian cycle bridge across creek to foreshore open space / parkland

New north south public through site links integrating with existing cul de sacs and providing greater connectivity and permeability of the neighbourhood

Potential open space / access link between new bridge and station

Public Spaces

Improve existing parkland open space adjoining creek corridor - provide creek viewing

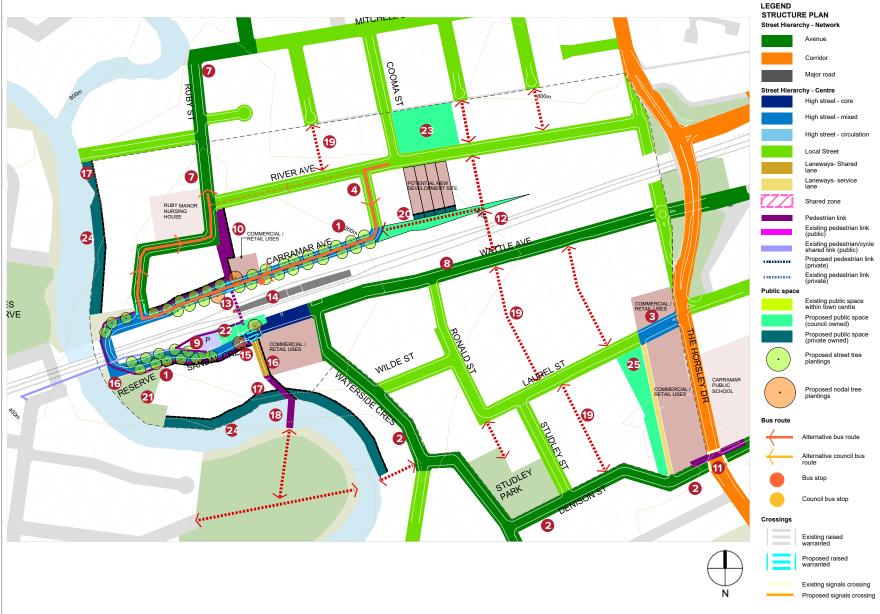
Consider re-purposing parking area to southern side of railway to village common integrated with open space to east taking advantage of existing tree canopy. Potential to integrate with temporary closure of Sandal Crescent for events

New public parks to serve residents on east and south Carramar Potential building setback to prospect Creek to facilitate enhanced habitat corridor and potential for access to creek corridor

Potential acquisition of land to create buffer zone between residential area and commercial activity.



A central village space with the existing carpark can become a hub for the community



Future Place Identity Themes to be integrated into ongoing design development:



Chapter 7 Public Domain Typologies

- 01. INTRODUCTION
- 02. DESIGN IMPLEMENTATION BRIEF
- 03. HIERARCHY TYPOLOGIES



01. INTRODUCTION

This section of the report outlines the Hierarchy Typologies that will be referenced throughout the Public Domain Guidelines.

They have been derived from Best Practice Research and set out an agreed approach for each street and public space typology. These approaches are the *baseline outcomes* for delivering best practice.

The following pages outline the precursor to the Hierarchy Typologies:

- Design Toolkit Strategies Priorities
- Design Implementation Briefs including the relevant Design Toolkit Strategies and Targets to meet minimum performance for each typology.
- Hierarchy Typologies.

Following the Hierarchy Typologies section, the following pages include:

- Supplementary Design Requirements
- Materials and Finishes Framework

Hierarchy Typologies Reference		
	Major Road	Pg. 126-127
	Avenue Road	Pg. 128-129 Pg. 148-149
	Corridor Road	Pg. 130-131 Pg. 150-157
<u>ķ</u>	Core High Street	Pg. 132-133 Pg. 152-153
RIAB I	Mixed High Street	Pg. 134-135 Pg. 154-155
	Circulation High Street	Pg. 136-137 Pg. 156-157
at the	Shared Zone on High Street	Pg. 138-139 Pg. 158-159

	Shared Laneway	Pg. 140-141 Pg. 160
	Service Lane	Pg. 142-143 Pg. 161
	Local Street	Pg. 144-145 Pg. 162-165
	Pedestrian Lane	Pg. 146-147 Pg. 166-169
Y H	Centre Squares/Plazas	Pg. 170-171



DESIGN TOOLKIT STRATEGY

The Design Toolkit Strategy identified below is the optimum sequence of implementation (A to J) for consideration in the design and management of public domain improvements.

A series of approaches have been identified to support each Design Toolkit Strategy and have been informed by Best Practice Framework research. Further details on each can be found in Part D: Supporting Research, Appendix 1: Design Toolkit Strategies.











ORDER

STREET GEOMETRY

PEDESTRIAN THROUGH ZONE

CONNECTIVITY & FLOW

Approach

- Understand the economic drives that influence the centre movement and traffic
- Understand and define access and traffic role
- Maximise pedestrian and cycle amenity to specific routes / areas
- Manage heavy vehicle access to designated areas of high pedestrian use

Approach

- Reduce traffic lane width to minimum required for function and safety
- Reduce kerb radii to minimum required for function and safety
- Reduce crossing distances

Approach

- Manage placement of fixed street elements (furniture / lights / signage, trees) to increase pedestrian movement space
- Manage on street trading to increase pedestrian movement space
- Increase pedestrian movement space (through zone) through footpath widenings

Approach

- Minimal or no stopping points along pedestrian route
- Minimal or no changes or transitions in level along pedestrian route
- Simple and Intuitive environment with clear lines of sight to important elements
- Clear Wayfinding
- Design that requires low physical effort to negotiate

Approach

- Minimal extent of kerb without buffer directly adjoining traffic lanes
- Widened footpaths within no standing zones to increase pedestrian space and facilitate street planting
- Underground power / reduce impact of overhad cables







Approach Minimal blank facades

- Minimal vacant shop fronts
- On-street trading
- Variety of reasons to be in street and linger
- Range of seating available
- Community events



GREENING THE CENTRE



COOL STREETS & SPACES



LOVED PUBLIC SPACES



CULTURE & COMMUNITY

Approach

- Increase regularity of street trees
- Increase number of street trees
- Strategically place trees to maximise visual benefit
- Increase amount of ground level street gardens
- Integrate street trees within parking bays (narrowing visual width of street)

Approach

- Increase regularity of street trees
- Increase number of street trees
- Increase continuity of awnings
- Provide clusters of trees (cool nodes) at regular intervals
- Increase presence of water / moisture

Approach

- Well located spaces
- Adequately sized spaces
- Attractive and flexible
- Attractive and usable to broad range of community
- Community involvement
- **Development of Public** Art Installations
- Events

Approach

- Community involvement
- Reflecting cultural influences
- Development of Public Art Installations
- Events



02. DESIGN IMPLEMENTATION BRIEF

MAJOR ROAD



Defined as...

A reliable major route for large volumes of movement between neighbouring centres, shops and services. Adjoining areas have a focus on healthy environmental conditions, with rich biodiversity, leafy and natural surrounds to mitigate impacts of heavy traffic volumes and reduce the urban island heat effect across LGA boundaries.



Design Toolkit Strategies	Targets
	regional traffic role
Street Order	regional transport role
Street Order	local pedestrian role
	local / supporting cycle role
Street Geometry	traffic role takes precedence - lane widths as required
	• pedestrian path between key points / to serve localised
Through Zone	access
	generally 1.5m minimum pedestrian path
Connectivity and Flow	• NA
At the Kerb	tree planting in verge
Street Life	• NA
	regional green link
Greening the Centre	• 70% tree canopy coverage
	tree planting within road verge
	provide shade to pedestrian links
Cool Streets and Spaces	• provide shade / buffer to west facing facades
	• increase biomass to reduce ambient heat of corridors
Laura d Barbilla Carana	provide visually interesting vehicular experience
Loved Public Spaces	ensure pedestrian comfort to paths
Culture and	provide for vehicular based cultural expression as a
Community	thresold or repetitive experience



AVENUE ROAD

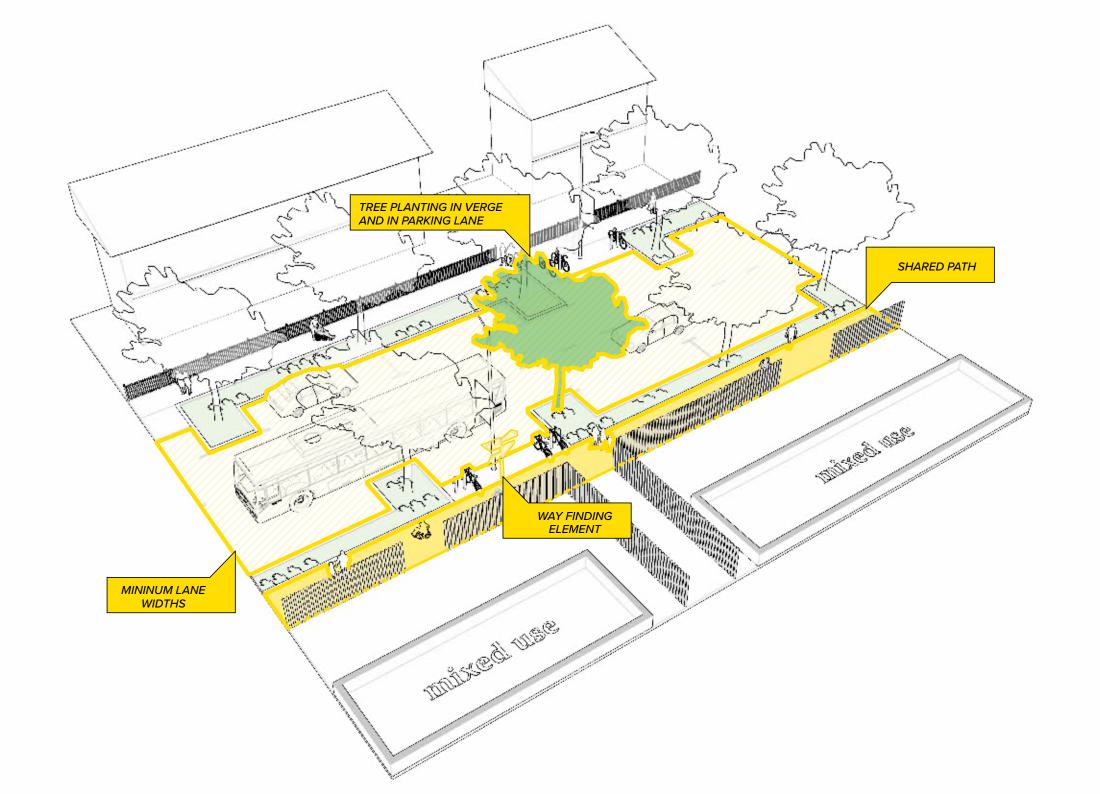


Defined as...

An essential connector between communities, Avenues accommodate high quality, equitable pedestrian and cyclist access to shops, services and key places. A critical balance between varying modes of movement ensure that social connectedness, building community life and safe, direct access is provided to interesting and healthy places between centres.



Desig	n Toolkit Strategies	Targets
(<u>A</u>)	Street Order	 secondary district traffic role primary district cycle role supporting transport role supporting pedestrian role
(B)	Street Geometry	 minimise lane widths and swept paths minimise / eliminate heavy vehicle traffic Integrate cycle facilities
(C)	Pedestrian Through- Zone	continuous pedestrian paths both sides generally 1.8m minimum pedestrian paths to cater for dual wheelchair access
(D)	Connectivity and Flow	 minimise driveways to side of street with cycle facility narrow crossing distance at intersecting streets to cycle crossings of intersecting streets - raised crossings where feasible
(E)	At the Kerb	kerbside parking tree planting in verge, or tree planting in parking lane underground power lines
(F)	Street Life	Small pockets of retail / corner store contribute to avenue role
(G)	Greening the Centre	 district green link 90% tree canopy coverage tree planting within road verge or kerbside parking lane underground power
(H)	Cool Streets and Spaces	 70% summer tree canopy shade provide shade / buffer to west facing facades create "cool nodes" with optimum (deep) shade at target 200m intervals
(1)	Loved Public Spaces	 provide visually interesting experience for all users ensure continuous pedestrian and cyclist comfort to paths
(1)	Culture and Community	 provide for wayfinding embedding cultural expression along route Wayfinding to adjoining / linking destinations



CORRIDOR ROAD

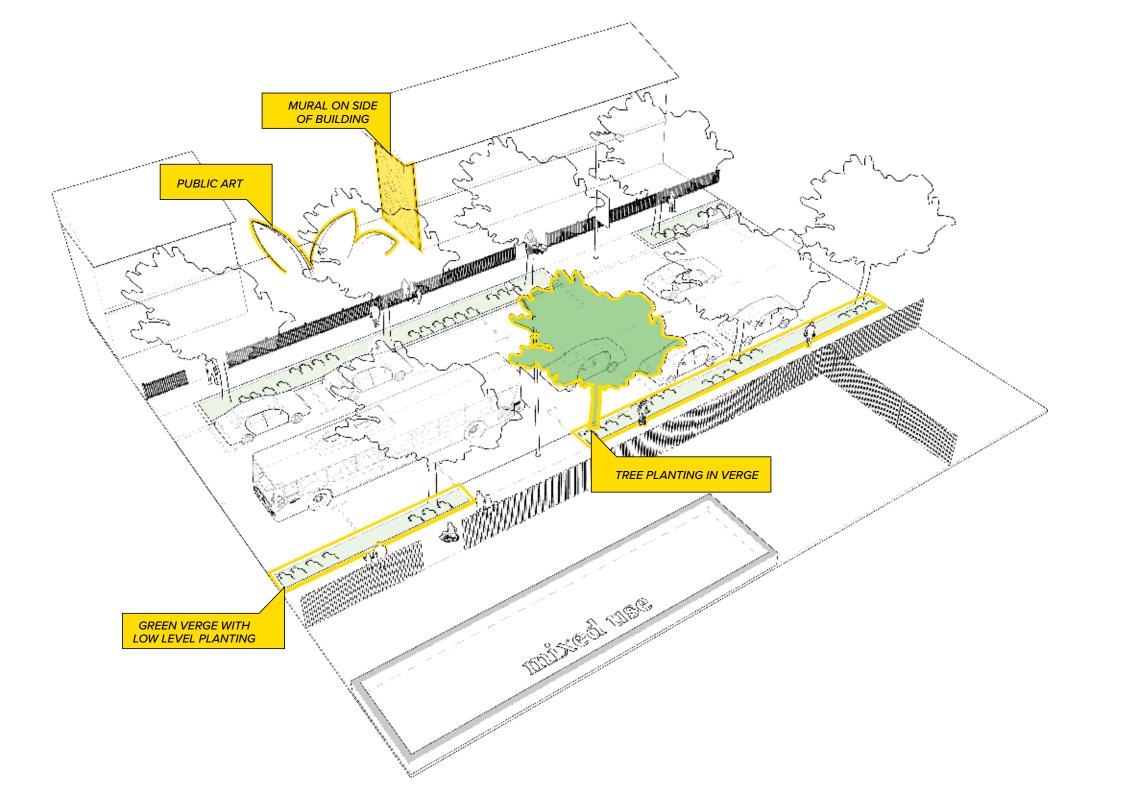


Defined as...

A leafy and green centre and neighbourhood route that plays a critical role in supporting vehicular, transport and cycling connections between communities. The Corridor presents a high quality and attractive environment that promotes green, cultural and arts character, tailored to place.



Desig	n Toolkit Strategies	Targets
(A)	Street Order	 primary district traffic role district transport role secondary district cycle role local pedestrian role
(B)	Street Geometry	traffic role takes precedence - lane widths as required Integrate cycle facility where required
င	Pedestrian Through- Zone	generally 1.8m minimum pedestrian paths at least one side to cater for dual wheelchair access
(D)	Connectivity and Flow	minimise driveways where cycle facility provided narrow crossing distance at intersecting streets
(E)	At the Kerb	clearways where requiredtree planting in vergeunderground power lines where feasible
(F)	Street Life	• NA
(G)	Greening the Centre	 district green link 70% tree canopy coverage tree planting within road verge
H	Cool Streets and Spaces	 70% summer tree canopy shade create "cool nodes" with optimum (deep) shade create "cool nodes" with optimum (deep) shade at target 200m intervals
	Loved Public Spaces	provide visually interesting vehicular experience ensure pedestrian and cyclist comfort to paths
(i)	Culture and Community	provide for vehicular based cultural expression as a threshold or repetitive experience



CORE HIGH STREET

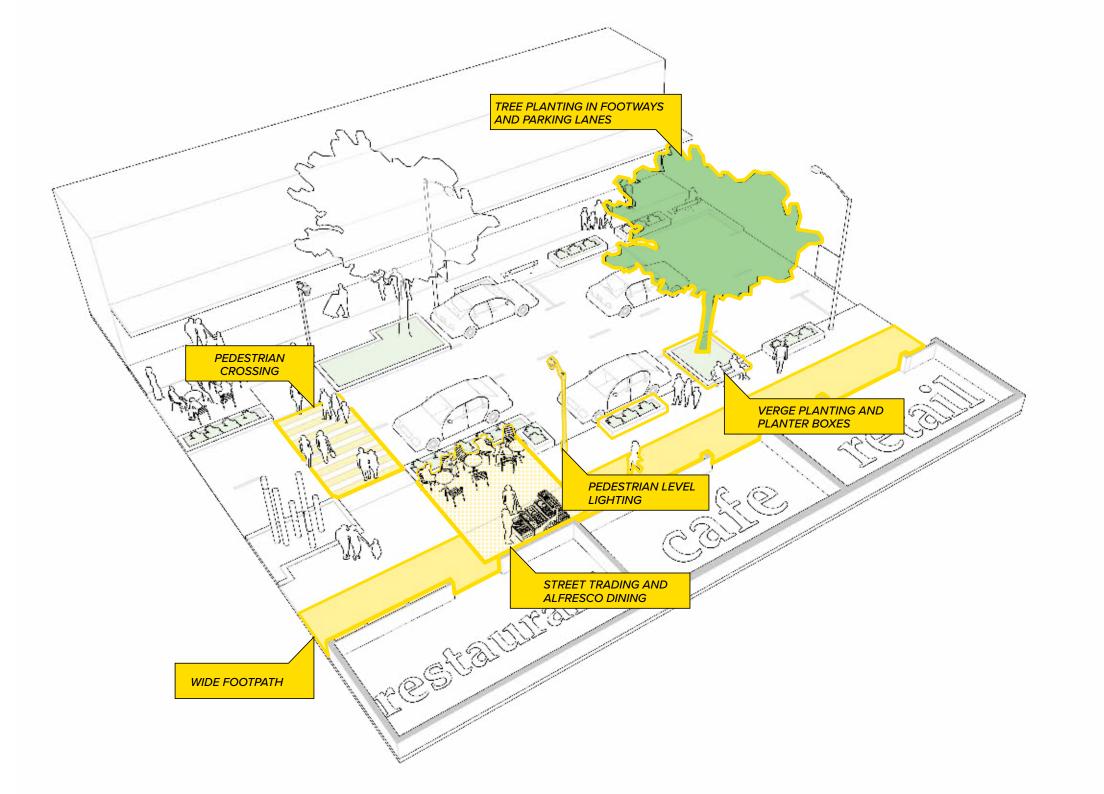


Defined as...

A focal point for high levels of activity that support shops, services, economic and cultural uses for the centre. People move between key places with ease and are engaged in their environment to enjoy walking; supported by highly pedestrian-prioritised streets and attractive connections.



Desig	n Toolkit Strategies	Targets
(A)	Street Order	 low speed traffic role primary pedestrian role supporting cycle role balancing of on street parking and footway widening no buses or large service vehicles
(B)	Street Geometry	Limit large vehicle trafficMinimise lane widthsReduce kerb radii
(C)	Pedestrian Through- Zone	2.4m minimum continuous pedestrian through zone
(D)	Connectivity and Flow	 no driveways narrow crossing distance with raised crossing of intersecting streets pedestrian priority (linemarked) crossings in street and at intersecting streets
(E)	At the Kerb	 widen footway where possible to no standing areas and at intersections tree planting in widened footways, or tree planting in parking lane underground power lines
(F)	Street Life	 provide for on street trading or at minimum active frontage as a dominant street character encourage businesses that contribute to street life encourage night trading
(G)	Greening the Centre	 local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green 15% surface area target
(H)	Cool Streets and Spaces	 80% summer tree canopy shade continuous building awnings create regular "cool nodes" with optimum (deep) shade consider evapo-transpirative cooling
	Loved Public Spaces	 provide a pedestrian focussed heart to the centre provide a range of reasons to come to / and stay in street create a safe and vibrant after after dark place
ं	Culture and Community	 facilitate modal use of street for events integrated with other spaces provide for wayfinding and permanent / temporary arts / cultural expression



MIXED HIGH STREET

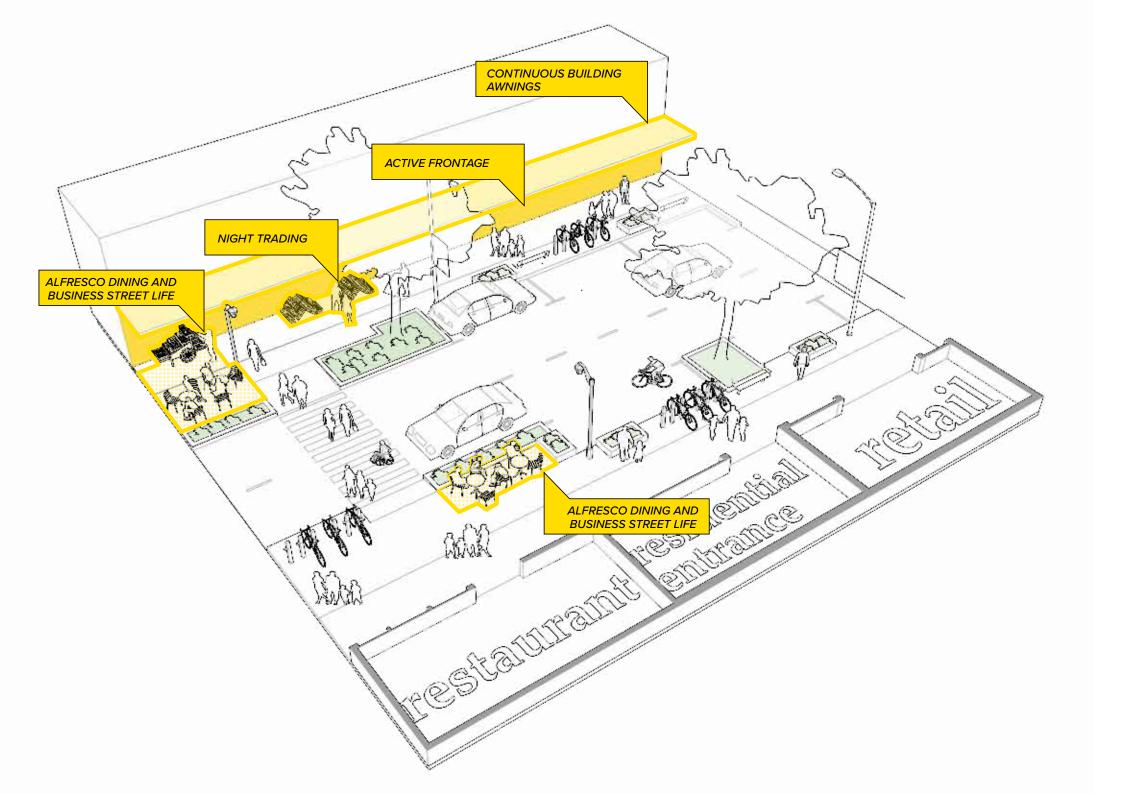


Defined as...

A focal point for high levels of activity where the convergence of a range of modal activity creates a lively street environment, supporting shops, services, economic and cultural uses. It provides pleasant connections for varying modes of movement whilst maintaining a pedestrian focus; people, cyclists and vehicles move between key places easily.



Design Toolkit Strategies		Targets
(A)	Street Order	 low speed traffic role primary pedestrian role primary cycle role balancing of on street parking and footway widening limited buses or large service vehicle
(B)	Street Geometry	minimise lane widths and swept pathsin lane bus stops preferred where requiredIntegrate cycle facility where required
(C)	Pedestrian Through- Zone	2.4m minimum continuous through zone
(D)	Connectivity and Flow	 minimise driveways narrow crossing distance with raised crossing of intersecting streets pedestrian priority or signalised crossing of intersecting streets
(E)	At the Kerb	 kerbside parking tree planting in verge, or tree planting in parking lane underground power lines
F	Street Life	provide for on street trading or at minimum active frontage to selected zones / nodes Encourage businesses that contribute to street life Encourage night trading
(G)	Greening the Centre	 local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green 15% surface area target
(H)	Cool Streets and Spaces	80% summer tree canopy shade continuous building awnings create regular "cool nodes" with optimum (deep) shade consider evapo-transpirative cooling
	Loved Public Spaces	 support the pedestrian heart to the centre provide a range of reasons to come to / and stay in street create a safe and vibrant after after dark place
(J)	Culture and Community	provide for wayfinding and permanent / temporary arts /cultural expression



CIRCULATION HIGH STREET

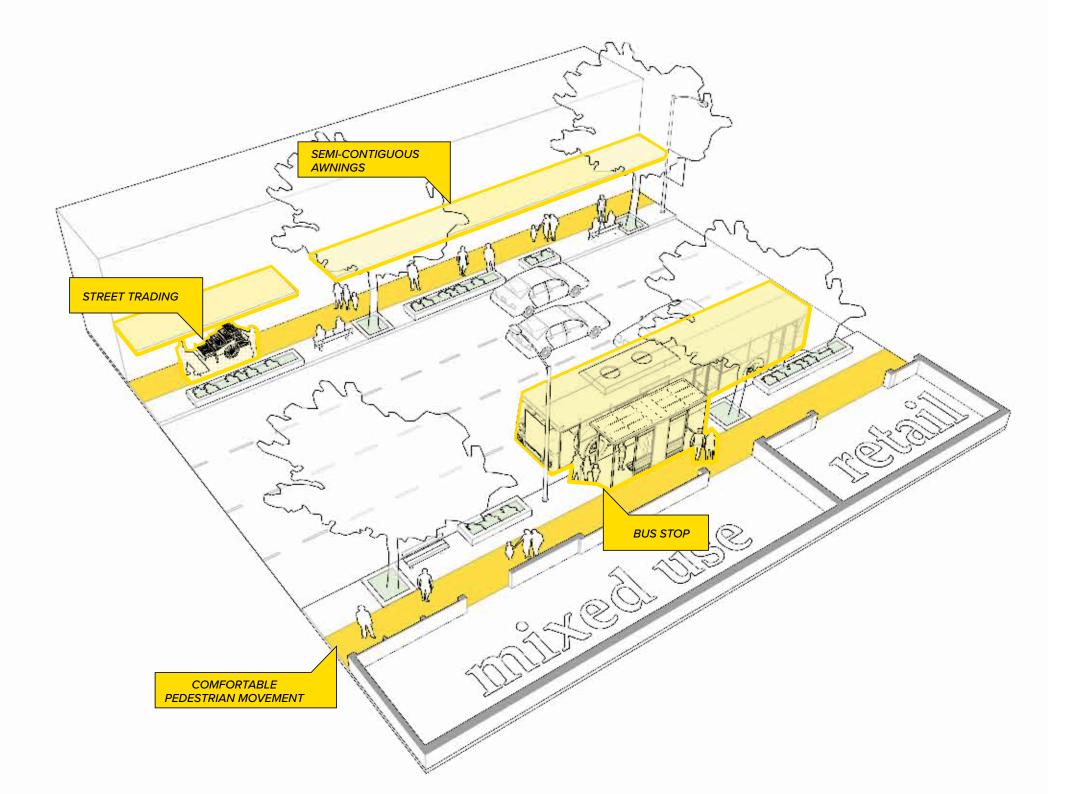


Defined as...

An essential connector between communities, Avenues accommodate high quality, equitable pedestrian and cyclist access to shops, services and key places. A critical balance between varying modes of movement ensure that social connectedness, building community life and safe, direct access is provided to interesting and healthy places between centres.



Desig	n Toolkit Strategies	Targets
(A)	Street Order	 low speed traffic role supporting pedestrian role supporting cycle role on street parking with selective footway widening buses and large service vehicle access
(B)	Street Geometry	 minimise lane widths and swept paths while catering for necessary vehicle types (buses and large service vehicle) in lane bus stops Integrate cycle facility where required
(C)	Pedestrian Through- Zone	minimum 1.8m pedestrian through zones both sides to cater for dual wheelchair movement - 2.4m preferred
(D)	Connectivity and Flow	cater for driveways in preference to Core and Mixed High Streetsdriveways integrated with street trees and lighting
(E)	At the Kerb	 clearways where required kerbside parking tree planting in verge tree planting in parking lane where possible underground power lines where possible
(F)	Street Life	 focus on comfortable pedestrian movement to connecting to Core and Mixed High Streets and other destinations Integrate on street trading or active frontage where uses adjoining street
(Greening the Centre	 local green link 70% tree canopy coverage tree planting within footway build outs or verge footway strong ground plane presence of green 15% surface area target
(H)	Cool Streets and Spaces	 70% summer tree canopy shade semi - continuous building awnings focussed on pedestrian routes create "cool nodes" with optimum (deep) shade near pedestrian movement routes
	Loved Public Spaces	 connect pedestrians to the activity focus of the centre create a safe and comfortable after dark place of movement
(j)	Culture and Community	provide for wayfinding and permanent / temporary arts /cultural expression

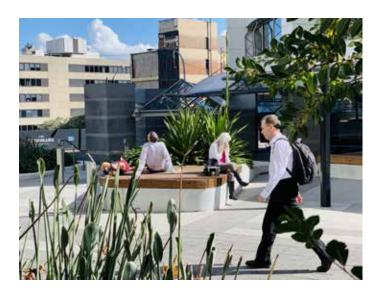


SHARED ZONE ON HIGH STREET

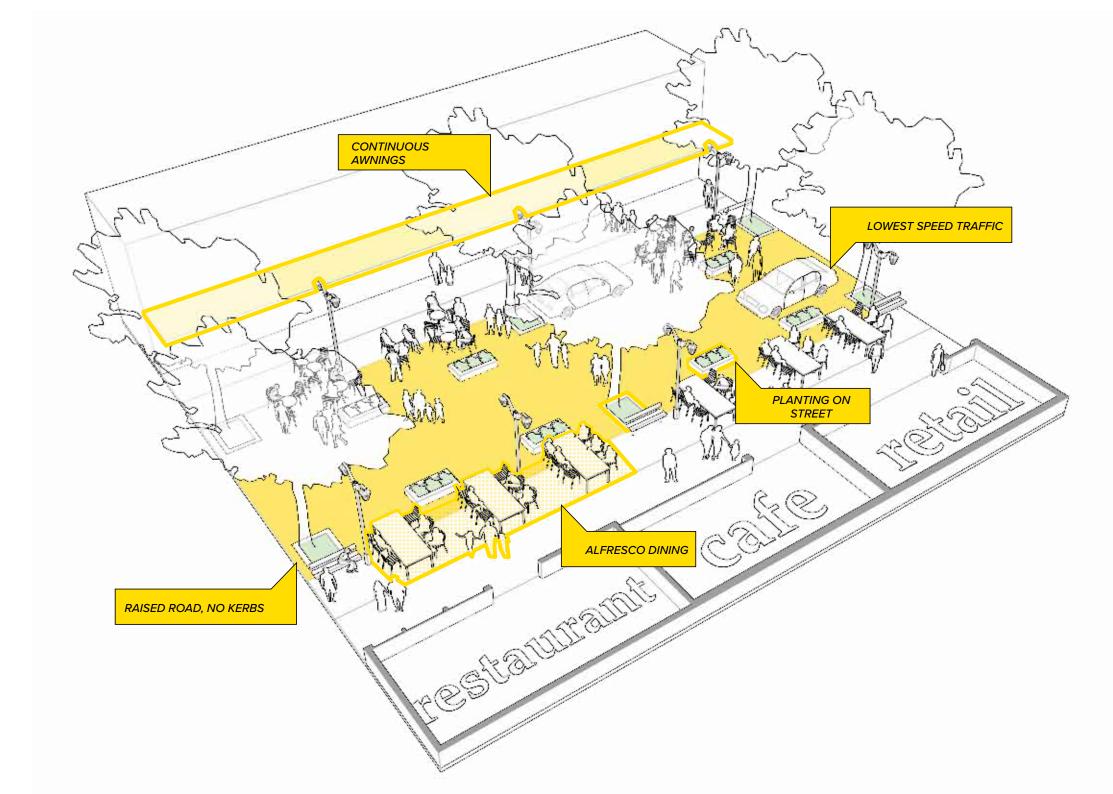


Defined as...

A highly attractive and engaging pedestrian environment that encourages street activity and vibrancy. People are drawn to cross the street to engage with other people, shops, activity and interest. This pedestrian movement occurs frequently and seamlessly with car-lite movements and slow speeds supporting that pedestrian priority.



Design Toolkit Strategies		Targets
(A)	Street Order	lowest speed traffic role shared vehicular, pedestrian and cycle roles small-large service vehicles
(B)	Street Geometry	 raise road and eliminate kerbs to create shared space design to RMS shared zone guidelines minimise lane widths and swept paths
(C)	Pedestrian Through- Zone	• NA
(D)	Connectivity and Flow	raised to footpath level shared vehicle, pedestrian and cycle movement within carriageway
(E)	At the Kerb	 replace kerbs and provide pedestrian pavement as per RMS shared zone guidelines planting and other street elements define vehicular movement underground power lines
(F)	Street Life	provides comfortable pedestrian priority movement connecting to Core and Mixed High Streets and other destinations faciltates additional opportunities for seating and landscape
(G)	Greening the Centre	 70% summer tree canopy create "cool nodes" with optimum (deep) shade at shared zone
(H)	Cool Streets and Spaces	 XX% summer tree canopy shade Continuous building awnings Create "cool nodes" with optimum (deep) shade Consider evapo-transpirative cooling
(1)	Loved Public Spaces	 support the pedestrian heart to the centre contibute to the range of reasons to come to / and stay in street create a safe and vibrant after after dark place
<u>(i)</u>	Culture and Community	facilitate modal use of street for events integrated with other spaces



SHARED LANEWAY

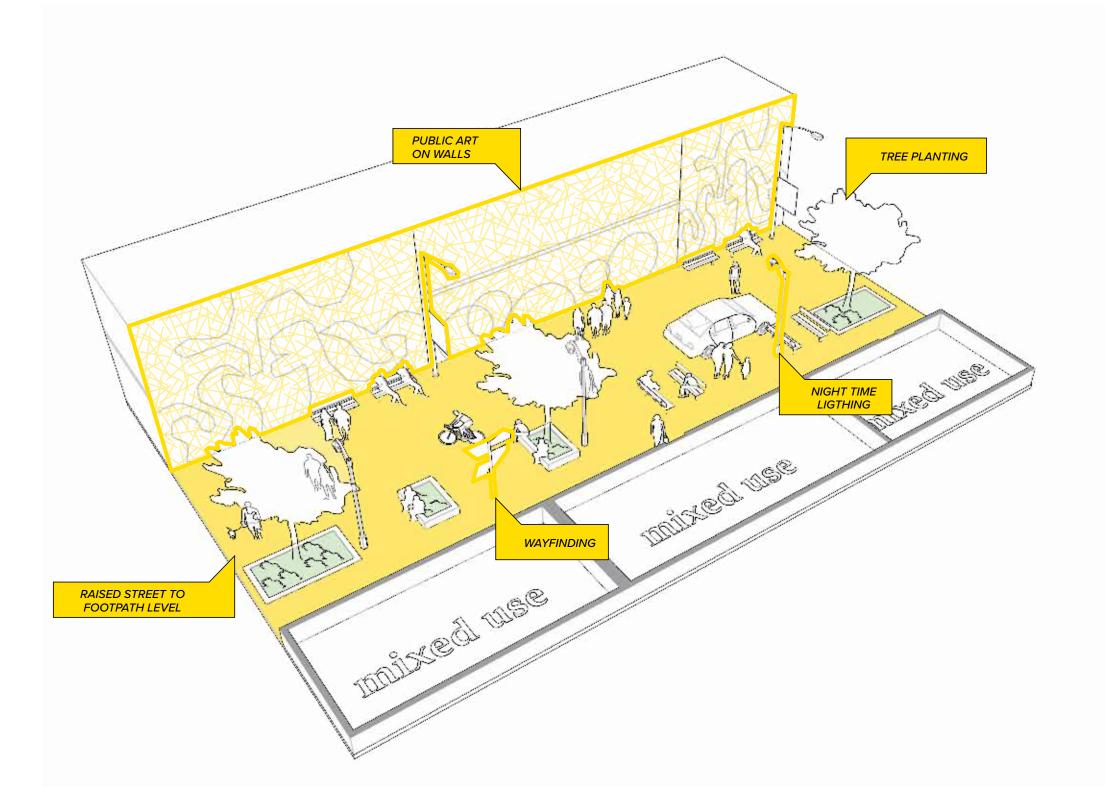


Defined as...

An engaging and pedestrian prioritised route to key places, with low level servicing activity to the rear of buildings. The building uses that spill over to the back-end of buildings engage with the lane for distinct and attractive public life that people enjoy lingering and socialising in. As a canvas for artistic and cultural expression, the space is the town's gallery for engaging expressions reflective of community interest and story.



Desig	n Toolkit Strategies	Targets
(A)	Street Order	 lowest speed traffic role shared vehicular pedestrian and cycle provisions pedestrian and cycle linkage role small-large service vehicles
(B)	Street Geometry	raise road and eliminate kerbs to create shared spacedesign to RMS shared zone guidelinesminimise lane widths and swept paths
(C)	Pedestrian Through- Zone	3m minimum clearance between elements to traffic route
(D)	Connectivity and Flow	raised to footpath levelpedestrian and cycle movement within carriagewaydriveways as required for service role
(E)	At the Kerb	 replace kerbs and provide pedestrian pavement as per RMS shared zone guidelines planting and other street elements define vehicular movement underground power lines where feasible
(F)	Street Life	 provides comfortable pedestrian priority movement connecting to Core and Mixed High Streets and other destinations provide for permanent or temporary on street trading to selected zones / nodes
(G)	Greening the Centre	 green link 80% tree canopy coverage strong ground plane presence of green 20% surface area target
(H)	Cool Streets and Spaces	70% summer tree canopy shade create "cool nodes" with optimum (deep) shade within shared lanes
()	Loved Public Spaces	 support the pedestrian heart to the centre provide a range of reasons to come to / and stay in street create a safe and vibrant after after dark place
()	Culture and Community	provide for wayfinding and permanent / temporary arts /cultural expression temporary use for events



SERVICE LANE

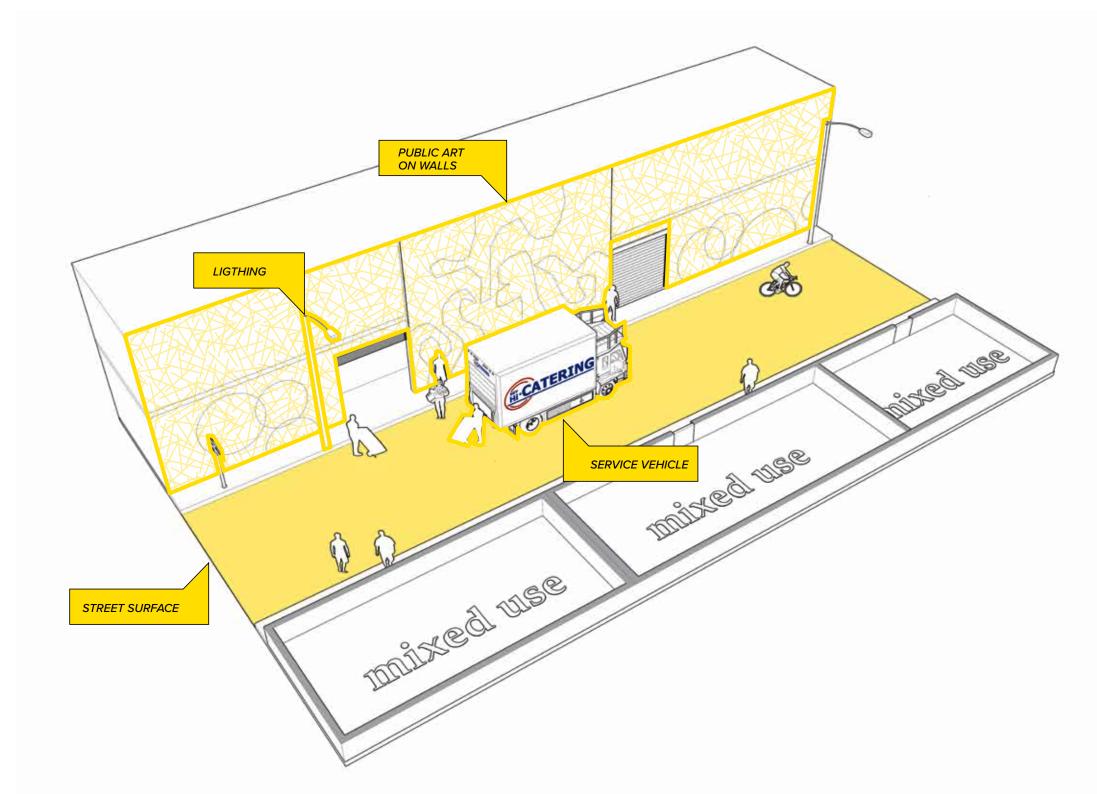


Defined as...

A slow, safe and green vegetated lane that allows for a combination of functional and interesting things to see presented across the lane and to the rear of lots, outbuildings and parking. The activity of servicing utilities, building functions and parking contributes to the vitality of the lanes that are well-lit and have logical connections to adjoining public spaces.



Desig	n Toolkit Strategies	Targets
(A)	Street Order	low speed traffic role small-large service vehicles limited / nil pedestrian / cycle linkage role
(B)	Street Geometry	traffic role takes precedence lane widths as required
(C)	Pedestrian Through- Zone	• NA
(D)	Connectivity and Flow	 provide for pedestrian safety - pedestrian footpath or refuge zones driveways as required for service role
(E)	At the Kerb	traffic and service role takes precedence
(F)	Street Life	• NA
(G)	Greening the Centre	• 50% tree canopy coverage
(H)	Cool Streets and Spaces	review overshadowing conditions and target canopy trees to areas lacking summer shade to reduce heat island effect
(1)	Loved Public Spaces	• NA
(1)	Culture and Community	• NA



LOCAL STREET

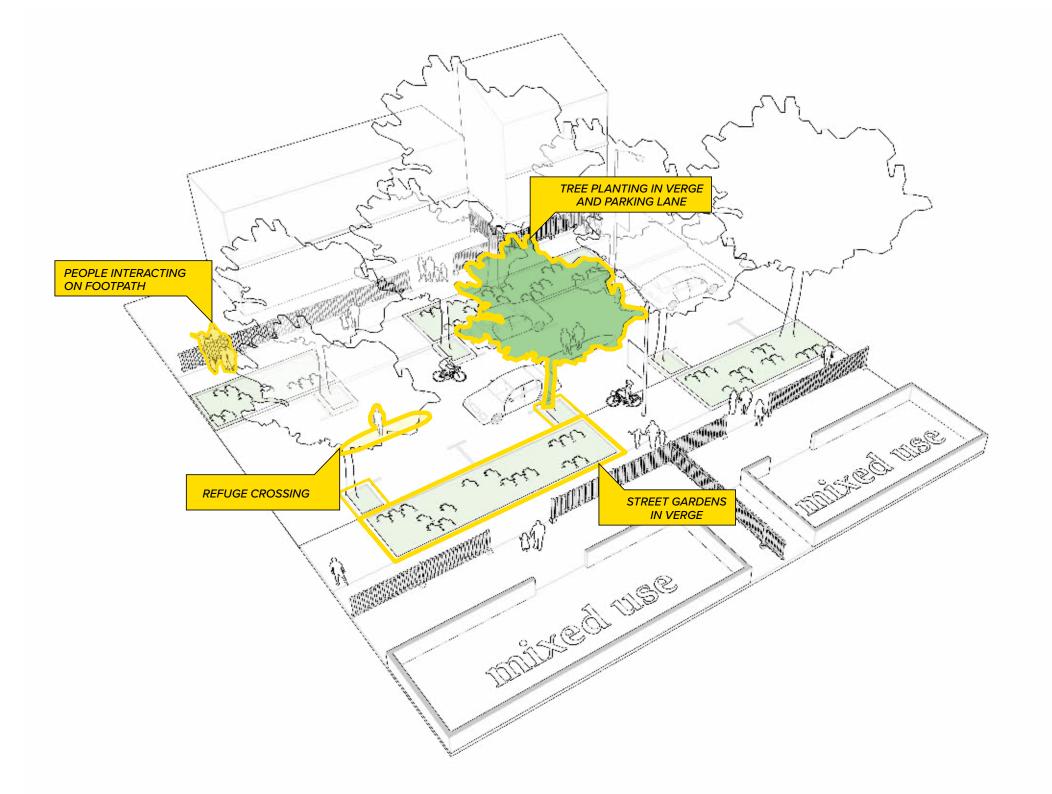


Defined as...

A connected, comfortable and attractive place that showcases a place; sense of community; where everyone feels safe staying in, walking and cycling through. It's a place where people, friends and neighbours meet, and are key places for kids to play in offering easy crossing, car-lite, shaded and well-lit areas that parents feel happy to let their kids linger and play in.



Design Toolkit Strategies		Targets
(A)	Street Order	Low speed traffic roleLocal pedestrian roleSupporting cycle roleemergency and garbage vehicles
(B)	Street Geometry	Limit large vehicle trafficMinimise lane widthsReduce kerb radii
(C)	Pedestrian Through- Zone	 1.8m preferred (1.5m minimum continuous pedestrian path Generally one side (consider both sides subject to development density and local destinations to be catered for)
(D)	Connectivity and Flow	Residential drivewaysRefuge crossings where traffic volumes higher
(E)	At the Kerb	parallel parking generally overhead power cables to one side
(F)	Street Life	attractive and comfortable street environment that encourages pedestrian movement and community interaction
©	Greening the Centre	 Local green link 70% tree canopy coverage Tree planting in verge subject to power lines, or Tree planting in parking lane, or combination of both ground plane presence of green - generally turfed verge - 15% target potential for resdient street gardens to verge
(H)	Cool Streets and Spaces	 70% summer tree canopy shade Create "cool nodes" with optimum (deep) shade at 100m intervals in neighbourhoods
()	Loved Public Spaces	 Provide an attractive public environment that residents are proud of and take care of Create a safe and vibrant neighbourhoods
(1)	Culture and Community	Encourage residential street interaction - facilitate events that streets can participate in



PEDESTRIAN LANE

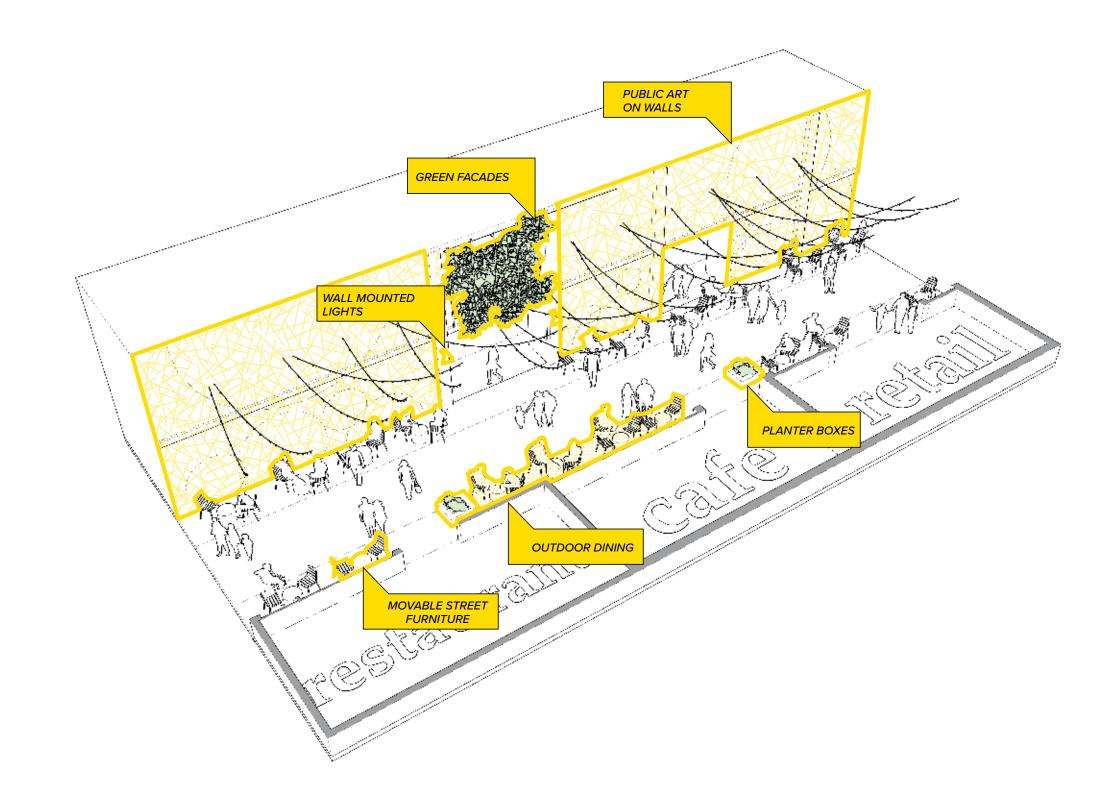


Defined as...

An intimate and engaging place that is often connected with a commercial core, with mixed uses on the ground floor contributing to the activity of the lane. Outdoor dining is supported, alongside opportunities for artistic, cultural and place expressions, public art curations and green landscaping treatments. The lane is a people place, that is comfortable, safe and interesting to move through for pedestrians and cyclists, as well as a place to support people lingering and staying longer.



Design Toolkit Strategies		Targets
(A)	Street Order	 low speed traffic role small-large service vehicles limited / nil pedestrian / cycle linkage role
В	Street Geometry	traffic role takes precedence lane widths as required
(C)	Pedestrian Through- Zone	• NA
(D)	Connectivity and Flow	 provide for pedestrian safety - pedestrian footpath or refuge zones driveways as required for service role
(E)	At the Kerb	traffic and service role takes precedence
(F)	Street Life	• NA
(G)	Greening the Centre	50% tree canopy coverage
(H)	Cool Streets and Spaces	review overshadowing conditions and target canopy trees to areas lacking summer shade to reduce heat island effect
(1)	Loved Public Spaces	• NA
ं)	Culture and Community	• NA



03. HIERARCHY DESIGN SPECIFICATIONS

AVENUE

PERFORMANCE TARGETS

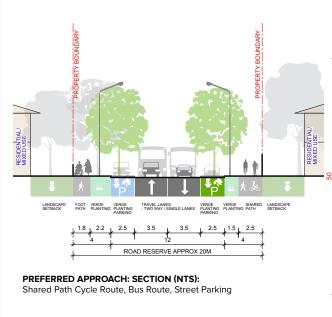


DESIGN IMPLEMENTATION BRIEF

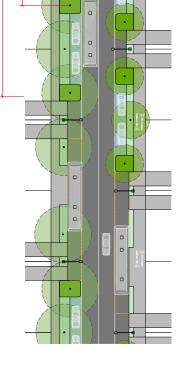
DESIGN STRATEGY TOOLKITS	TARGETS			
STREET ORDER	secondary district traffic role primary district cycle role supporting transport role supporting pedestrian role			
STREET GEOMETRY	minimise lane widths and swept paths minimise / eliminate heavy vehicle traffic Integrate cycle facilities			
PEDESTRIAN THROUGH ZONE	continuous pedestrian paths both sides generally 1.8m minimum pedestrian paths to cater for dual wheelchair access			
CONNECTIVITY AND FLOW	minimise driveways to side of street with cycle facility narrow crossing distance at intersecting streets to cycle crossings of intersecting streets - raised crossings where feasible			
AT THE KERB	kerbside parking tree planting in verge, or tree planting in parking lane underground power lines			
STREET LIFE	Small pockets of retail / corner store contrinute to avenue role			
GREENING THE CENTRE	district green link 80% tree canopy coverage tree planting within road verge or kerbside parking lane undergrounded power			
COOL STREETS AND SPACES	80% summer tree canopy shade provide shade / buffer to west facing facades create "cool nodes" with optimum (deep) shade at target 200m intervals			
LOVED PUBLIC SPACES	provide visually interesting experience for all users ensure continuous pedestrian and cyclist comfort to paths			
CULTURE AND COMMUNITY	provide for wayfinding embedding cultural expression along route Wayfinding to adjoining / linking destinations			

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	OMPARISON	
Nominal Width	18.5-24m	20m
Context	Residential neighbourhood	Mixed
Built Form	Residential dwellings, occasional commercial uses at ground level	Residential dwell- ings, occasional commercial uses at ground level
Walking	Min 1.5m path both sides	Min 1.5m path both sides
Cycling	Separated cycleway	Mixed traffic or Shared Path
Behavoural Speed	≤ 40 km/h	≤ 40 km/h
Design Vehicle	Bus	Bus
Check Vehicle	Garbage Truck	Garbage Truck
Travel lane	3.2-3.5m	3.2-3.5m
Parking lane	2.0-2.4m	2.1-2.5m
Indicative Traffic	3000-6000 vehicles /day	3000-6000 vehicles /day
Lot Access	Front Loaded or rear loaded	Front Loaded or rear loaded
Buses	Yes	If required
Max. Length	As required for neighbourhood access	As required for neighbourhood access
Type. Lots Served	Varies	Varies
WSUD	Low flow-passive ir- rigation/rain gardens High flow - swale to low side / median	Divert to WSUD basins in adjoining open space where available
PERFORMANC	E TARGET COMPAR	RISON
Tree Target	14 x per 1000m2	1-11 x per 1000m2
Street Shade Area	80% of area	55% of area create "cool nodes" with 80-90% (deep) shade at target 200m intervals
Permeable Area	20% of area	22% of area excl perm paving

PREFERRED APPROACH







DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS	
Footway arrangement	Minimum 4.0m verge adjoining residential / commercial Street tree pits extend into parking lane if drainage allows
Driveways	No driveway access where possible for continuity of cycle access
Power & Telecommunications	Overhead services to be undergrounded where possible Target larger street tree planting to side without overhead cables
Carriageway / Cycle provision	3.5m traffic lanes including dish drain for bus traffic Separated Cycle Path of Shared Path located on verge with overhead cables if possible - with smaller street tree planting
Parking	parallel parking generally no parking to separated path alternative (2)
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Pedestrian Pole-top Lighting to cycle path alignment
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS

Footway pavements	Broom finished concrete pathway	
Street Furniture	Standard furniture at seating nodes integrated with Cool Nodes every 200m	
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 400m	
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area	
Planting species	Evergreen medium to large tree spe- cies as advised by Council	

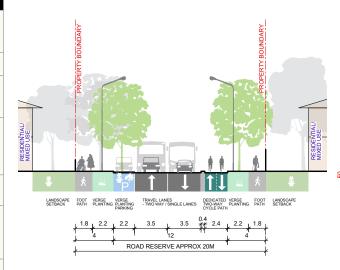
KEY FEATURES - Alternative 1 (refer plan and section this page)

- · Separated cycle path optimum cycle facility
- · Tree planting in verge adjoining separated cycle path
- Tree planting in island extending into parking bay opposite side
- · Large tree species to non-cycle path side

KEY FEATURES - Alternative 2 (refer plan and section this page)

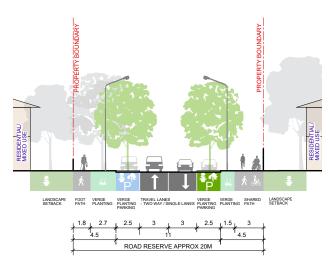
- · Shared pedestrian / cycle path
- · Tree planting in verge adjoining shared cycle path
- Tree planting in island extending into parking bay opposite side
- · Large tree species to non-cycle path side

ALTERNATIVE APPROACHES



ALTERNATIVE 1 SECTION (NTS):

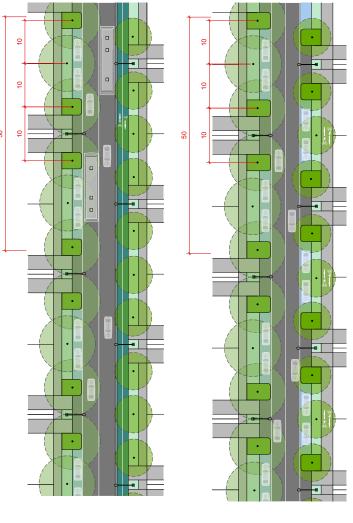
Separated Cycle Route, Bus Route Street Parking



ALTERNATIVE 2 SECTION (NTS):

Shared Path Cycle Route, Street Parking

INDICATIVE IMPLEMENTATION COSTS Indicative implementation cost per lin/m of 20m road corridor \$7,928.00 Indicative servicing cost per lin/m per year \$53.86 / pa



ALTERNATIVE 1: PLAN (NTS)

ALTERNATIVE 2: PLAN (NTS)

GUIDELINES z

CORRIDOR

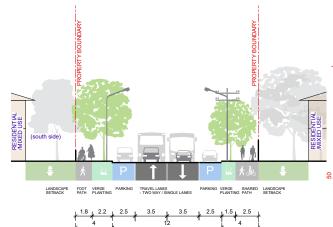
DESIGN IMPLEMENTATION BRIEF

DESIGN STRATEGY TOOLKITS	TARGETS	
STREET ORDER	primary district traffic role district transport role secondary district cycle role local pedestrian role	
STREET GEOMETRY	traffic role takes precedence lane widths as required Integrate cycle facility where required	
PEDESTRIAN THROUGH ZONE	generally 1.8m minimum pedestrian paths at least one side to cater for dual wheelchair access	
CONNECTIVITY AND FLOW	minimise driveways where cycle facility provided narrow crossing distance at intersecting streets	
AT THE KERB	clearways where required tree planting in verge underground power lines where feasible	
STREET LIFE	• NA	
GREENING THE CENTRE	district green link 70% tree canopy coverage tree planting within road verge	
COOL STREETS AND SPACES	To% summer tree canopy shade create "cool nodes" with optimum (deep) shade create "cool nodes" with optimum (deep) shade at target 200m intervals	
LOVED PUBLIC SPACES	provide visually interesting vehicular experience ensure pedestrian and cyclist comfort to paths	
CULTURE AND COMMUNITY	provide for vehicular based cultural expression as a thresold or repetitive experience	

PERFORMANCE TARGETS

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	OMPARISON	
Nominal Width	18.5-24m	20m
Context	Residential neighbourhood	Mixed
Built Form	Residential dwell- ings, occasional commercial uses at ground level	Residential dwell- ings, occasional commercial uses at ground level
Walking	Min 1.5m path both sides	Min 1.5m path both sides
Cycling	Separated cycleway	Mixed traffic or Shared Path
Behavoural Speed	≤ 40 km/h	≤ 50 km/h
Design Vehicle	Bus	Bus
Check Vehicle	Garbage Truck	Garbage Truck
Travel lane	3.2-3.5m	3.2-3.5m
Parking lane	2.0-2.4m	2.1-2.5m
Indicative Traffic	3000-6000 vehicles /day	3000-6000 vehicles /day
Lot Access	Front Loaded or rear loaded	Front Loaded or rear loaded
Buses	Yes	If required
Max. Length	As required for neighbourhood access	As required for neighbourhood access
Type. Lots Served	Varies	Varies
WSUD	Low flow-passive irrigation/rain gardens High flow - swale to low side / median	Divert to WSUD basins in adjoining open space where available
PERFORMANC	E TARGET COMPA	RISON
Tree Target	10 x per 1000m2	10-11 x per 1000m2
Street Shade Area	70% of area	55% of area create "cool nodes" with 80-90% (deep) shade at target 400m intervals
Permeable Area	35% of area	17% of area excl perm paving

PREFERRED APPROACH

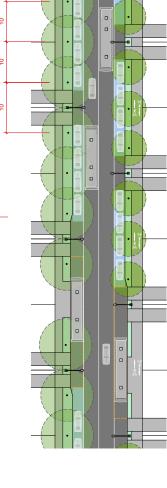


PREFERRED APPROACH: SECTION (NTS):

Shared Path Cycle Route, Bus Route, Street Parking







DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS	
Footway arrangement	Minimum 4.0m verge adjoining residential / commercial Street tree pits in verge
Driveways	Cluster together driveways where possible to maximise tree planting
Power & Telecommunications	Overhead services to be undergrounded where possible Target larger street tree planting to side without overhead cables
Carriageway / Cycle provision	3.5m traffic lanes including dish drain for bus traffic Shared Path located on verge with overhead cables if possible - with smaller street tree planting
Parking	parallel parking generally
Lighting	Street Lighting to required level for cy- cle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS	
Footway pavements	Broom finished concrete pathway
Street Furniture	Standard furniture at seating nodes integrated with Cool Nodes every 400m
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 400m
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area
Planting species	Evergreen medium to large tree spe- cies as advised by Council

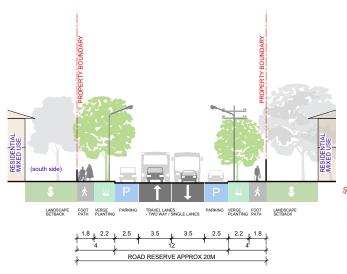
KEY FEATURES - Alternative 1 (refer plan and section this page)

- no cycle facility
- · bus route with kerbside bus stops
- Tree planting in verge
- Parallel parking both sides

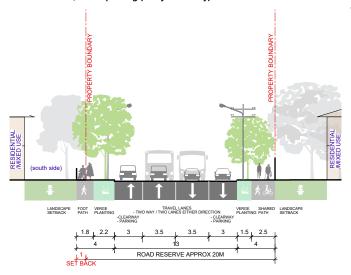
KEY FEATURES - Alternative 2 (refer plan and section this page)

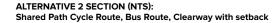
- · Shared pedestrian / cycle path
- · bus route with kerbside bus stops
- Tree planting in verge
- Clearways both directions Parallel parking both sides in non clearway time.

ALTERNATIVE APPROACHES



ALTERNATIVE 1 SECTION (NTS): Bus Route, Street parking (no cycle facility)









ALTERNATIVE 1: PLAN (NTS)

ALTERNATIVE 2: PLAN (NTS)

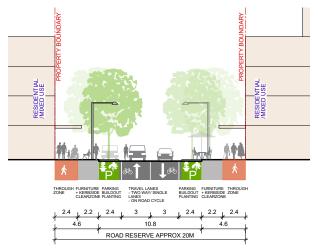
CORE HIGH STREET

DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	low speed traffic role primary pedestrian role supporting cycle role balancing of on street parking and footway widening no buses or large service vehicles
STREET GEOMETRY	Limit large vehicle traffic Minimise lane widths Reduce kerb radii
PEDESTRIAN THROUGH ZONE	2.4m minimum continuous pedestrian through zone
CONNECTIVITY AND FLOW	no driveways narrow crossing distance with raised crossing of intersecting streets pedestrian priority (lin- emarked) crossings in street and at intersecting streets
AT THE KERB	widen footway where possible to no standing areas and at intersections tree planting in widened footways, or tree planting in parking lane underground power lines
STREET LIFE	provide for on street trading or at minimum active frontage as a dominant street character encourage businesses that contribute to street life encourage night trading
GREENING THE CENTRE	local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green 15% surface area target
COOL STREETS AND SPACES	80% summer tree canopy shade continuous building awnings create regular "cool nodes" with optimum (deep) shade consider evapo-transpirative cooling
LOVED PUBLIC SPACES	provide a pedestrian focussed heart to the centre provide a range of reasons to come to / and stay in street create a safe and vibrant after after dark place
CULTURE AND COMMUNITY	facilitate modal use of street for events integrated with other spaces provide for wayfinding and permanent / temporary arts / cultural expression

DESIGN IMPLEMENTATION BRIEF PERFORMANCE TARGETS

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	COMPARISON	
Nominal Width	16-25m	20m
Context	Commercial Centre	Commercial Centre
Built Form	Mixed-use with active ground floor uses	Mixed-use with active ground floor uses
Walking	Generous footpaths with multiple uses	2.4m clear walkway
Cycling	Travel zone shared with vehicles	Travel zone shared with vehicles Consider cycle lane / sep path subject to context
Behavoural Speed	≤ 30 km/h	≤ 30 km/h
Design Vehicle	Bus	Private Car
Check Vehicle	Garbage truck	Garbage truck
Travel lane	3.2-3.5m	3.2-3.5m
Parking lane	2.0-2.4m	2.1-2.5m
Lot Access	Rear-loaded/Loaded bays	Rear-loaded/Loaded bays
Buses	Yes	No
Kerb extensions at intersections	Required	Required
Type. Lots Served	Varies	Varies
WSUD	Low flow-passive irrigation/rain gardens	Pits and pipes solution generally - potential to integrate with WSUD to open
	High flow - pits and pipes solution	space
PERFORMANC	E TARGET COMPAR	RISON
Tree Target	12 x per 1000m2	8-9 x per 1000m2
Street Shade Area	70% canopy @ 20 years	80% of area incl awnings @ 20 years
Permeable Area	20% of area	15% of area excl perm paving

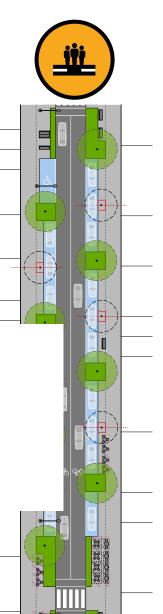
PREFERRED APPROACH



PREFERRED APPROACH: SECTION (NTS):

Two way traffic





PREFERRED APPROACH: PLAN (NTS)

DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS	
Footway arrangement	Minimum 4.6m verge adjoining commercial Street tree pits extend into parking lane if drainage allows
Driveways	No driveway access
Power & Telecommunications	Overhead services to be under- grounded
Carriageway / Cycle provision	3.0m traffic lanes including dish drain for bus traffic Mixed traffic access for cycles to roadway
Parking	parallel parking generally no parking to separated path alternative (2)
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Pedestrian Pole-top Lighting to cycle path alignment
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS		
Footway pavements	Primary Pavement (honed Concrete Unit) colour as per chapter 9	
Street Furniture	Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park	
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 50m	
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area	

KEY FEATURES - Alternative 1 (refer plan and section this page)

Planting species as per chapter 9

• one way traffic

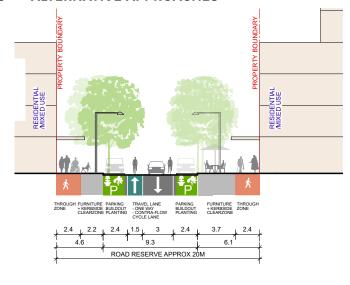
Planting species

- kerbside parallel parking one side
- angle parking other side
- Tree planting in island extending into parking bay
- · One way cycle lane

KEY FEATURES - Alternative 2 (refer plan and section this page)

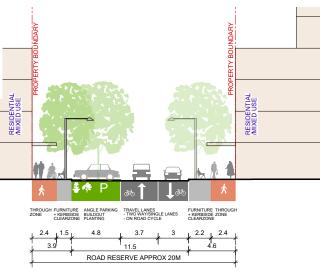
- Two way traffic
- kerbside parallel parking
- · Tree planting in island extending into parking bay

ALTERNATIVE APPROACHES



ALTERNATIVE 1 SECTION (NTS):

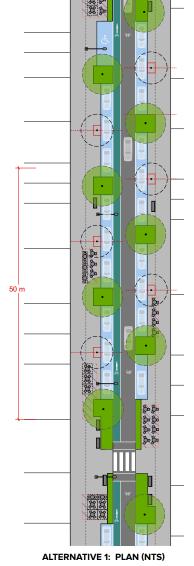
One way traffic, parallel parking, one way cycle lane



ALTERNATIVE 2 SECTION (NTS):

Two way traffic, angle parking one side

INDICATIVE IMPLEMENTATION COSTS Indicative implementation cost per lin/m of 20m road corridor Indicative servicing cost per lin/m per year \$206.93 / pa



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MIXED HIGH STREET

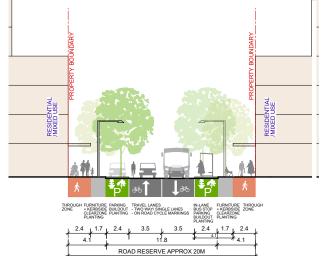
DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	low speed traffic role primary pedestrian role primary cycle role balancing of on street parking and footway widening limited buses or large service vehicle
STREET GEOMETRY	minimise lane widths and swept paths in lane bus stops preferred where required Integrate cycle facility where required
PEDESTRIAN THROUGH ZONE	2.4m minimum continuous through zone
CONNECTIVITY AND FLOW	minimise driveways narrow crossing distance with raised crossing of intersecting streets pedestrian priority or signal- ised crossing of intersecting streets
AT THE KERB	kerbside parking tree planting in verge, or tree planting in parking lane underground power lines
STREET LIFE	provide for on street trading or at minimum active frontage to selected zones / nodes Encourage businesses that contribute to street life Encourage night trading
GREENING THE CENTRE	local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green 15% surface area target
COOL STREETS AND SPACES	80% summer tree canopy shade continuous building awnings create regular "cool nodes" with optimum (deep) shade consider evapo-transpirative cooling
LOVED PUBLIC SPACES	support the pedestrian heart to the centre provide a range of reasons to come to / and stay in street create a safe and vibrant after after dark place
CULTURE AND COMMUNITY	provide for wayfinding and permanent / temporary arts / cultural expression

cultural expression

DESIGN IMPLEMENTATION BRIEF PERFORMANCE TARGETS

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD (COMPARISON	
Nominal Width	16-25m	20m
Context	Commercial Centre	Commercial Centre
Built Form	Mixed-use with active ground floor uses	Mixed-use with active ground floor uses
Walking	Generous footpaths with multiple uses	2.4m clear walkway
Cycling	Travel zone shared with vehicles	Travel zone shared with vehicles Consider cycle lane / sep path subject to context
Behavoural Speed	≤ 30 km/h	≤ 30 km/h
Design Vehicle	Bus	Private Car
Check Vehicle	Garbage truck	Garbage truck
Travel lane	3.2-3.5m	3.2-3.5m
Parking lane	2.0-2.4m	2.1-2.5m
Lot Access	Rear-loaded/Loaded bays	Rear-loaded/Loaded bays
Buses	Yes	No
Kerb extensions at intersections	Required	Required
Type. Lots Served	Varies	Varies
WSUD	Low flow-passive ir- rigation/rain gardens High flow - pits and pipes solution	Pits and pipes solution generally - potential to integrate with WSUD to open space
PERFORMANC	E TARGET COMPAR	RISON
Tree Target	12 x per 1000m2	8-9 x per 1000m2
Street Shade Area	70% canopy @ 20 years	80% of area incl awnings @ 20 years
Permeable Area	20% of area	15% of area excl perm paving

PREFERRED APPROACH

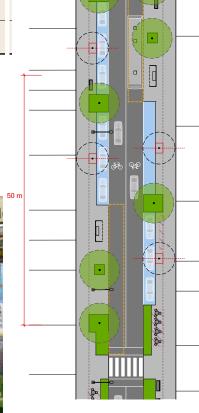


PREFERRED APPROACH: SECTION (NTS):

Two way, parallel parking, in lane bus stop







DESIGN AND MATERIALS REQUIREMENTS GENERAL DESIGN REQUIREMENTS

GENERAL DESIGN REGUIREMENTS	
Footway arrangement	Minimum 4.6m verge adjoining commercial Street tree pits extend into parking lane if drainage allows
Driveways	No driveway access
Power & Telecommunications	Overhead services to be under- grounded
Carriageway / Cycle provision	3.0m traffic lanes including dish drain for bus traffic Mixed traffic access for cycles to roadway
Parking	parallel parking generally no parking to separated path alternative (2)
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Pedestrian Pole-top Lighting to cycle path alignment
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS	
Footway pavements	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9
Street Furniture	Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 100m
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area

Planting species as per chapter 9

KEY FEATURES - Alternative 1

· two way traffic

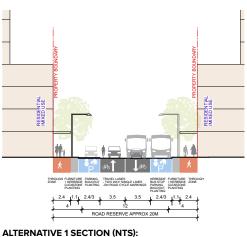
Planting species

- mixed traffic cycle facility
- bus route with recessed bus bay
- Tree planting in parking bays
- Parallel parking both sides

KEY FEATURES - Alternative 2

- two way traffic
- shared pedestrian / cycle path to verge
- bus route with in lane kerbside bus stops
- parallel parking
- Tree planting in parking bays

ALTERNATIVE APPROACHES



Bus Bay (recessed bus stop)

INDICATIVE IMPLEMENTATION COSTS	
Indicative implementation cost per lin/m of 20m road corridor	\$15,233.00
Indicative servicing cost per lin/m per year	\$212.97 / pa

50 m

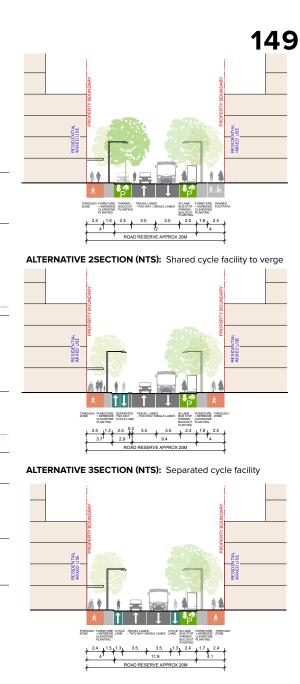
ALTERNATIVE 2: PLAN (NTS)

KEY FEATURES - Alternative 3

- two way traffi
- · separated dual direction cycle path
- bus route with in lane kerbside bus stops
- · parallel parking one side
- Tree planting in parking bays one side / tree planting in verge to cycle facility side

KEY FEATURES - Alternative 4

- · two way traffi
- single direction linemarked cycle lanes
- bus route with in lane kerbside bus stops
- no on street parking
- Tree planting in parking bays



ALTERNATIVE 4SECTION (NTS): Single direction cycle lanes

CIRCULATION HIGH STREET

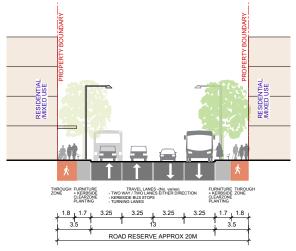
DESIGN IMPLEMENTATION BRIEF

DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	low speed traffic role supporting pedestrian role supporting cycle role on street parking with selective footway widening buses and large service vehicle access
STREET GEOMETRY	minimise lane widths and swept paths while catering for necessary vehicle types (buses and large service vehicle) in lane bus stops Integrate cycle facility where required
PEDESTRIAN THROUGH ZONE	minimum 1.8m pedestrian through zones both sides to cater for dual wheelchair movement - 2.4m preferred
CONNECTIVITY AND FLOW	cater for driveways in preference to Core and Mixed High Streets driveways integrated with street trees and lighting
AT THE KERB	clearways where required kerbside parking tree planting in verge tree planting in parking lane where possible underground power lines where possible
STREET LIFE	focus on comfortable pedestrian movement to connecting to Core and Mixed High Streets and other destinations Integrate on street trading or active frontage where uses adjoining street
GREENING THE CENTRE	local green link 70% tree canopy coverage tree planting within footway build outs or verge footway strong ground plane presence of green 15% surface area target
COOL STREETS AND SPACES	70% summer tree canopy shade semi - continuous building awnings focussed on pedestrian routes create "cool nodes" with optimum (deep) shade near pedestrian movement routes
LOVED PUBLIC SPACES	connect pedestrians to the activity focus of the centre create a safe and comfortable after dark place of movement
CULTURE AND COMMUNITY	provide for wayfinding and permanent / temporary arts / cultural expression

PERFORMANCE TARGETS

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	OMPARISON	
Nominal Width	16-25m	20m
Context	Commercial Centre	Commercial Centre
Built Form	Mixed-use with active ground floor uses	Mixed-use with active ground floor uses
Walking	Generous footpaths with multiple uses	2.4m clear walkway
Cycling	Travel zone shared with vehicles	Travel zone shared with vehicles Consider cycle lane / sep path subject to context
Behavoural Speed	≤ 30 km/h	≤ 30 km/h
Design Vehicle	Bus	Private Car
Check Vehicle	Garbage truck	Garbage truck
Travel lane	3.2-3.5m	3.2-3.5m
Parking lane	2.0-2.4m	2.1-2.5m
Lot Access	Rear-loaded/Loaded bays	Rear-loaded/Loaded bays
Buses	Yes	No
Kerb extensions at intersections	Required	Required where turning lanes allow
Type. Lots Served	Varies	Varies
WSUD	Low flow-passive ir- rigation/rain gardens High flow - pits and pipes solution	Pits and pipes solution generally - potential to integrate with WSUD to open space
PERFORMANC	E TARGET COMPAR	RISON
Tree Target	12 x per 1000m2	8-9 x per 1000m2
Street Shade Area	70% canopy @ 20 years	80% of area incl awnings @ 20 years
Permeable Area	20% of area	15% of area excl perm paving

PREFERRED APPROACH

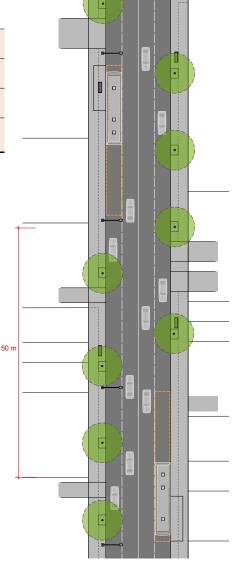


PREFERRED APPROACH: SECTION (NTS):

Two way, multi-purpose kerbside lane







PREFERRED APPROACH: PLAN (NTS)

DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS	
Footway arrangement	Minimum 4.6m verge adjoining commercial Street tree pits extend into parking lane if drainage allows
Driveways	No driveway access
Power & Telecommunications	Overhead services to be under- grounded
Carriageway / Cycle provision	3.0m traffic lanes including dish drain for bus traffic Mixed traffic access for cycles to roadway
Parking	parallel parking generally no parking to separated path alternative (2)
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Pedestrian Pole-top Lighting to cycle path alignment
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS	
Footway pavements	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9
Street Furniture	Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 200m
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area
Planting species	Planting species as per chapter 9

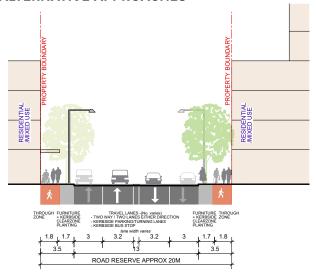
KEY FEATURES - Alternative 1

- · two way traffic separate by median
- multi purpose kerbside lane: parallel parking, bus stop, clearway travel lane
- Tree planting in verge
- Parallel parking both sides

KEY FEATURES - Alternative 2

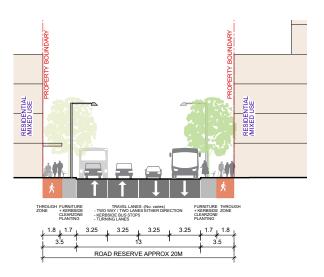
- · shared pedestrian / cycle path to verge
- bus route with in lane kerbside bus stops
- parallel parking
- Tree planting in parking bays

ALTERNATIVE APPROACHES



ALTERNATIVE 1 SECTION (NTS):

Two lanes both directions with median



ALTERNATIVE 2 SECTION (NTS):

Two lanes both directions with bus stop

INDICATIVE IMPLEMENTATION COSTS	
Indicative implementation cost per lin/m of 20m road corridor	\$12,448.00
Indicative servicing cost per lin/m per year	\$154 / pa

LINE GUIDE Z 4 Σ 0 O

SHARED ZONE ON A HIGH STREET

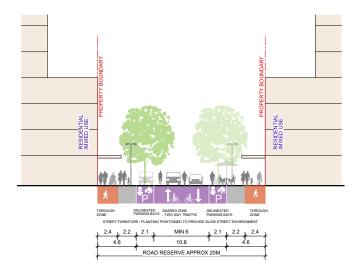
DESIGN IMPLEMENTATION BRIEF

DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	lowest speed traffic role shared vehicular, pedestrian and cycle roles small-large service vehicles
STREET GEOMETRY	raise road and eliminate kerbs to create shared space design to RMS shared zone guidelines minimise lane widths and swept paths
PEDESTRIAN THROUGH ZONE	- NA
CONNECTIVITY AND FLOW	raised to footpath level shared vehicle, pedestrian and cycle movement within carriageway
AT THE KERB	replace kerbs and provide pedestrian pavement as per RMS shared zone guidelines planting and other street elements define vehicular movement underground power lines
STREET LIFE	provides comfortable pedestrian priority movement connecting to Core and Mixed High Streets and other destinations facilitates additional opportunities for seating and landscape
GREENING THE CENTRE	70% summer tree canopy create "cool nodes" with optimum (deep) shade at shared zone
COOL STREETS AND SPACES	XX% summer tree canopy shade Continuous building awnings Create "cool nodes" with optimum (deep) shade Consider evapo-transpirative cooling
LOVED PUBLIC SPACES	support the pedestrian heart to the centre contibute to the range of reasons to come to / and stay in street create a safe and vibrant after after dark place
CULTURE AND COMMUNITY	facilitate modal use of street for events integrated with other spaces

PERFORMANCE TARGETS

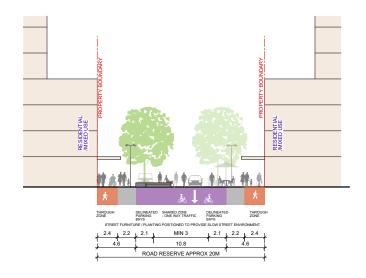
	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	COMPARISON	
Nominal Width		20m
Context		Commercial Centre
Built Form		Mixed-use with active ground floor uses
Walking		2.4m clear walkway to verges / 3.0m clear zone to traffic route
Cycling		Mixed traffic
Behavoural Speed		≤ 10 km/h
Design Vehicle		Private Car
Check Vehicle		Garbage truck
Travel zone		3.0m
Parking bay		2.1-2.5m
Lot Access		avoid access
Buses		No
Type. Lots Served		Varies
WSUD		Pits and pipes solution generally potential to integrate WSUD beds
PERFORMANC	E TARGET COMPAR	RISON
Tree Target		8-9 x per 50m
Street Shade Area		80% of area incl awnings
Permeable Area		35% of area excl perm paving

PREFERRED APPROACH



PREFERRED APPROACH: SECTION (NTS):

Two way traffic



PREFERRED APPROACH: SECTION (NTS):

One way traffic

DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS	
Footway arrangement	Shared zone in accordance with RMS Shared Zone Guidelines Street tree pits extend into parking lane if drainage allows
Driveways	No driveway access
Power & Telecommunications	Overhead services to be under- grounded
Carriageway / Cycle provision	3.0m zone for vehiocle movement clear of shared zone elements Mixed traffic access for cycles to roadway
Parking	parallel parking generally
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Pedestrian Pole-top Lighting to adjoining pedestrian only areas
Arts and Culture	Interpretive wayfinding

MATERIALS AND FINISHES REQUIREMENTS

MATERIALS AND THISTIES REGORDINENTS	
Footway pavements	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regular traffic loadings structural bedding course and grout to pavements
Street Furniture	Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 200m
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area
Planting species	Planting species as per chapter 9

INDICATIVE IMPLEMENTATION COSTS	
Indicative implementation cost per lin/m of 20m road corridor	\$25,447.00
Indicative servicing cost per lin/m per year	\$247 / pa













EXAMPLE - Mitchell Street Square St Leonards

SHARED LANEWAY

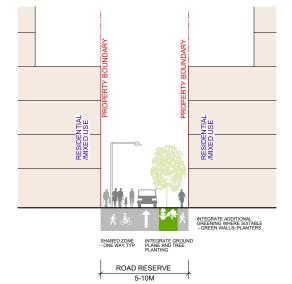
DESIGN IMPLEMENTATION BRIEF PERFORMANCE TARGETS

DESIGN IMPLEMENTATION BRIEF	
DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	lowest speed traffic role shared vehicular, pedestrian and cycle roles small-large service vehicles
STREET GEOMETRY	raise road and eliminate kerbs to create shared space design to RMS shared zone guidelines minimise lane widths and swept paths
PEDESTRIAN THROUGH ZONE	• NA
CONNEC- TIVITY AND FLOW	raised to footpath level shared vehicle, pedestrian and cycle movement within carriageway
AT THE KERB	replace kerbs and provide pedestrian pavement as per RMS shared zone guidelines planting and other street elements define vehicular movement underground power lines
STREET LIFE	provides comfortable pedestrian priority movement connecting to Core and Mixed High Streets and other destinations facilitates additional opportunities for seating and landscape
GREENING THE CENTRE	70% summer tree canopy create "cool nodes" with optimum (deep) shade at shared zone
COOL STREETS AND SPACES	XX% summer tree canopy shade Continuous building awnings Create "cool nodes" with optimum (deep) shade Consider evapo-transpirative cooling
LOVED PUB- LIC SPACES	support the pedestrian heart to the centre contibute to the range of reasons to come to / and stay in street create a safe and vibrant after after dark place
CULTURE AND COM-	facilitate modal use of street for events integrated with other spaces

	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	COMPARISON	
Nominal Width	7m	5-10m
Context	Commercial Centre	Commercial Centre
Built Form	Mixed-use with active ground floor uses	Mixed-use with active ground floor uses
Walking	Shared zone shared with cyclists and vehicles	Shared zone shared with cyclists and vehicles
Cycling	Shared zone shared with cyclists and vehicles	Shared zone shared with cyclists and vehicles
Behavoural Speed	10 km/h	10 km/h
Design Vehicle	Private Car	Private Car
Check Vehicle	Garbage truck / delivery vehicle	Garbage truck / delivery vehicle
Travel zone	6.0-8.5m	3.0-3.5m
Parking bay	2.0-2.4m	2.1-2.5m
Lot Access	Rear-loaded via laneway	Rear-loaded via laneway
Buses	No	No
WSUD	Low flow: passive irrigation of street trees, or permeable paving for ground- water infiltration High flow: pits and pipes solution	Pits and pipes solu- tion generally po- tential to integrate WSUB beds
PERFORMANC	E TARGET COMPA	ARISON
Tree Target	12 x per 1000m2	8-9 x per 1000m2
Street Shade Area	70% canopy @ 20 years	80% of area incl awnings @ 20 years
Permeable Area	35% of area	5-6% of area excl perm paving

INDICATIVE IMPLEMENTATION COSTS	
Indicative implementation cost per lin/m of 20m road corridor	\$8,750 - \$14,000
Indicative servicing cost per lin/m per year	\$140-170 / pa

PREFERRED APPROACH



PREFERRED APPROACH: SECTION (NTS):



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DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN RE	QUIREMENTS		
Footway arrangement	Shared zone in accordance with RMS Shared Zone Guidelines Street tree pits extend into		
	parking lane if drainage allows		
Driveways	Minmise due to impact of swept path		
Power & Telecommunications	Overhead services to be undergrounded		
Carriageway / Cycle	3.0m zone for vehiocle movement clear of shared zone elements		
provision	Mixed traffic access for cycles to roadway		
Parking	• n/a		
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Overhead catenary lighting		
Arts and Culture	Interpretive wayfinding Facade artworks		
MATERIALS AND FINISHES REQUIREMENTS			
MATERIALS AND FIN	ISHES REQUIREMENTS		
MATERIALS AND FIN	SHES REQUIREMENTS Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regular traffic loadings structural bedding course and grout to pavements		
Footway pave-	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regular traffic loadings structural bedding course		
Footway pave- ments	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regular traffic loadings structural bedding course and grout to pavements Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre		
Footway pavements Street Furniture	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regu- lar traffic loadings structural bedding course and grout to pavements Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared alnes and to centre plaza / park Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" -		

MUNITY

SERVICE LANEWAY

Area

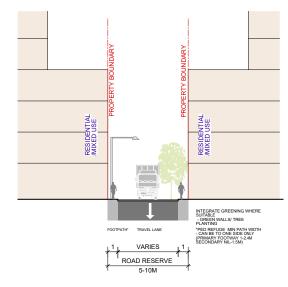
TOOLKITS	TARGETS
STREET ORDER	low speed traffic role small-large service vehicles limited / nil pedestrian / cycle linkage role
STREET GEOMETRY	traffic role takes precedence lane widths as required
PEDESTRIAN THROUGH ZONE	- NA
CONNEC- TIVITY AND FLOW	provide for pedestrian safety - pedestrian footpath or refuge zones driveways as required for service role
AT THE KERB	traffic and service role takes precedence
STREET LIFE	- NA
GREENING THE CENTRE	50% tree canopy coverage
COOL STREETS AND SPACES	review overshadowing conditions and target canopy trees to areas lacking summer shade to reduce heat island effect
LOVED PUB- LIC SPACES	• NA
CULTURE AND COM- MUNITY	• NA

IMPLEMENTATION BRIEF PERFORMANCE TARGETS

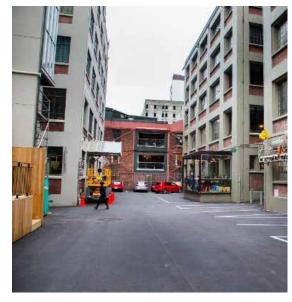
	Western Sydney Street Design Guide	Fairfield Public Domain Plan	
DASHBOARD COMPARISON			
Nominal Width		5-10m	
Context		Commercial Centre	
Built Form		Mixed-use with active ground floor uses	
Walking		Mixed use - low pedestrian and cycle traffic	
Cycling		Shared zone shared with cyclists and vehicles	
Behavoural Speed		10 km/h	
Design Vehicle		Private Car	
Check Vehicle		Garbage truck / delivery vehicle	
Travel zone		3.0-3.5m	
Parking bay		2.1-2.5m	
Lot Access		Rear-loaded via laneway	
Buses		No	
WSUD		Pits and pipes solu- tion generally po- tential to integrate WSUB beds	
PERFORMANCE TARGET COMPARISON			
Tree Target		3-4 x per 1000m2	
Street Shade Area		5% of area - likely to have strong built form overshadowing	
Permeable		0% of area excl	

perm paving

PREFERRED APPROACH



PREFERRED APPROACH: SECTION (NTS):





DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS		
Footway arrangement	Asphalt or concrete roadway Dedicated pedestrian refuge where space allows	
Driveways	Back of house service access	
Power & Telecommunications	Overhead services	
Carriageway / Cycle provision	As required for vehicular access	
Parking	• n/a	
Lighting	Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings Overhead catenary lighting	
Arts and Culture	Interpretive wayfinding	

MATERIALS AND FINISHES REQUIREMENTS		
Footway pave- ments	Asphalt roadway Broom finished concrete pedestrian refuge where provided	
	Standard furniture as per chapter 9	
Street Furniture	Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park	
Tree Planting	Tree planting - target soil volume 35m3	
Street Garden Planting	• n/a	
Planting species	Planting species as per chapter 9	

INDICATIVE IMPLEMENTATION COSTS		
Indicative implementation cost per lin/m of 20m road corridor (excluding roadway)	\$4,100.00	
Indicative servicing cost per lin/m per year	\$45 / pa	

LOCAL STREET 1

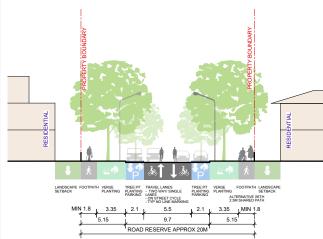
DESIGN IMPLEMENTATION BRIEF

DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	Low speed traffic role Local pedestrian role Supporting cycle role emergency and garbage vehicles
STREET GEOMETRY	Limit large vehicle traffic Minimise lane widths Reduce kerb radii
PEDESTRIAN THROUGH ZONE	1.5m minimum continuous pedestrian path Both sides preferred - minimum one side
CONNECTIVITY AND FLOW	Residential driveways Refuge crossings where traffic volumes higher
AT THE KERB	parallel parking generally overhead power cables to one side
STREET LIFE	attractive and comfortable street environment that encourages pedestrian movement and community interaction
GREENING THE CENTRE	Local green link 70% tree canopy coverage Tree planting in verge subject to power lines, or Tree planting in parking lane, or combination of both ground plane presence of green - generally turfed verge - 15% target potential for resdient street gardens to verge
COOL STREETS AND SPACES	70% summer tree canopy shade Create "cool nodes" with optimum (deep) shade at 100m intervals in neighbourhoods
LOVED PUBLIC SPACES	Provide a pedestrian heart to the centre Provide a range of reasons to be in the street Create a safe and vibrant after hours place
CULTURE AND COMMUNITY	Encourage residential street interaction - facilitate events that streets can participate in

PERFORMANCE TARGETS

	Western Sydney Street Design Guide (type 4)	Fairfield Public Domain Plan	
DASHBOARD C	OMPARISON		
Nominal Width	15-23m	15-20m	
Context	Residential neighbourhood	Residential neighbourhood	
Built Form	Detached/semi– detached dwellings	Detached/semi– detached dwellings	
Walking	Min. 1.2m path both sides	Min. 1.2m path preferred both sides - minimum one side	
Cycling	Travel zone shared with vehicles	Travel zone shared with vehicles (Mixed traffic)	
Behavoural Speed	30 km/h	30 km/h	
Travel lane	2.8-3.0m	2.8-3.0m	
Parking lane	2.0-2.4m	2.0-2.4m	
Design Vehicle	Private car	Private car	
Check Vehicle	Garbage Truck	Garbage Truck	
Indicative Traffic	approx 3000 vehicles per day	approx 3000 vehi- cles per day	
Lot Access	Front Loaded	Front Loaded	
Buses	No	No	
Max. Length	approx 100m	approx 100m	
Type. Lots Served	as required for local access	as required for local access	
WSUD	Low flow: passive irrigation High flow: swale on low-side	Divert to WSUD in island tree ppits where feasible	
		Pits and Pipes	
PERFORMANC	E TARGET COMPAR	RISON	
Tree Target	10 x per 1000m2	12 x per 1000m2	
Street Shade Area	70% of area	77% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals	
Permeable Area	35% of area	40% of area excl perm paving	

PREFERRED APPROACH

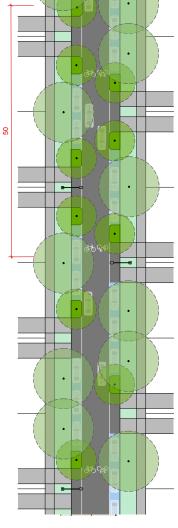


PREFERRED APPROACH: SECTION (NTS):

Street trees to verge and to parking lane islands







PREFERRED APPROACH: PLAN (NTS)

DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS		
Footway arrangement	Minimum 3.0m verge adjoining resid lots Street tree pits in verge Supplementary treet tree pits in parking lane where feasible	
Driveways	Cluster together driveways where possible to maximise tree planting	
Power & Telecommunications	Target larger street tree planting to side without overhead cables Consider aerial bundling to conserve mature trees	
Carriageway / Cycle provision	Varied traffic lane widths as per alternatives Mixed traffic cycle facility	
Parking	parallel parking generally	
Lighting	Street Lighting to required level for, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings	
Arts and Culture	• n/a	

MATERIALS AND FINISHES REQUIREMENTS		
Footway pavements	Tertiary Pavement -broom finished concrete pathway	
Street Furniture	• n/a	
Tree Planting	Tree planting as per integrated ar- rangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 400m	
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area	
Planting species	Evergreen medium to large tree spe- cies as advised by Council	

PERFORMANCE TARGET COMPARISON			
	WSSG	ALT 1	ALT 2
Tree Target	10 x per 1000m2	12 x per 1000m	8 x per 1000m
Street Shade Area	70% of area	approx 70% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals	approx 40% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals
Permeable Area	35% of area	20% of area excl perm paving	25% of area excl perm paving

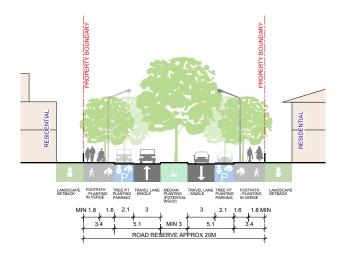
KEY FEATURES - Alternative 1 (refer plan and section this page)

- Tree planting in parking lane islands tree planting in central median

KEY FEATURES - Alternative 2 (refer plan and section this page)

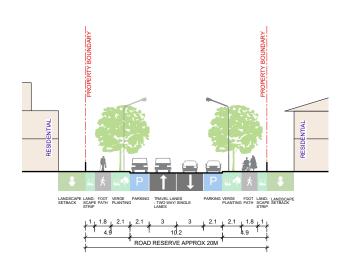
- Tree planting in verge
 tree planting in central median
- · Parallel parking both sides

ALTERNATIVE APPROACHES



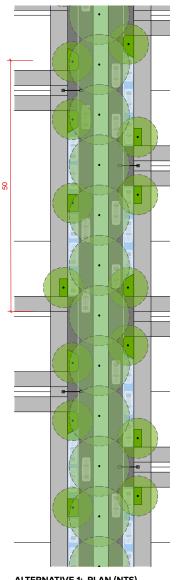
ALTERNATIVE 1 20M LOCAL STREET SECTION (NTS):

Street trees to verge and to central median

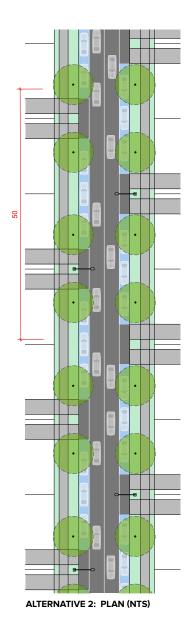


ALTERNATIVE 2 20M LOCAL STREET SECTION (NTS):

Street trees to verge







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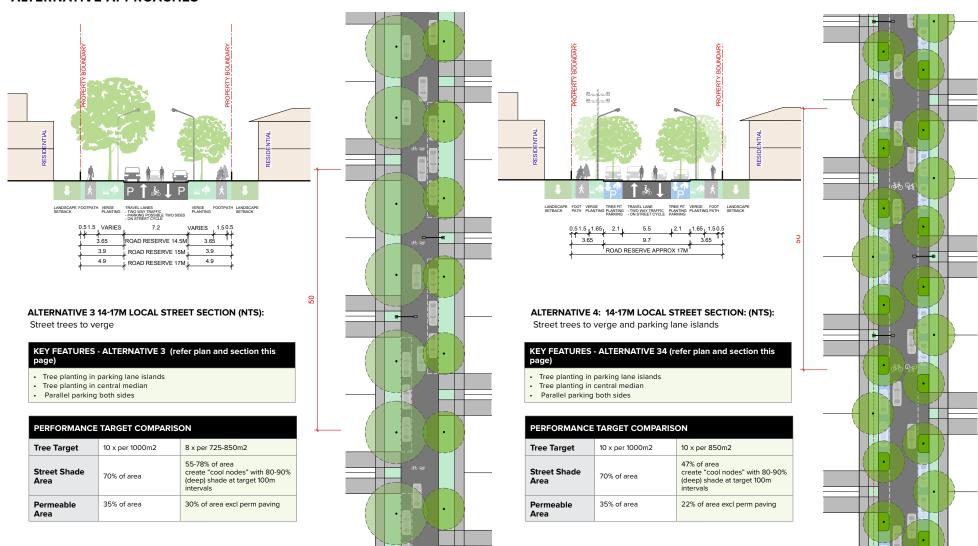
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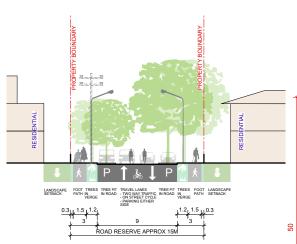
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LOCAL STREET 2

ALTERNATIVE APPROACHES





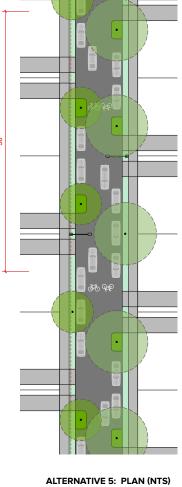
ALTERNATIVE 5: 14-17M LOCAL STREET SECTION: (NTS):

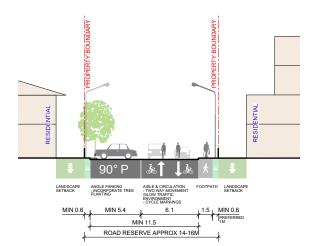
Street trees to parking lane islands

KEY FEATURES - ALTERNATIVE 5 (refer plan and section this

- · Tree planting in parking lane islands
- · Tree planting in central median
- · Parallel parking both sides

PERFORMANCE TARGET COMPARISON		
Tree Target	10 x per 1000m2	5 x per 750m2
Street Shade Area	70% of area	58% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals
Permeable Area	35% of area	16% of area excl perm paving





ALTERNATIVE 6: 14-16M LOCAL STREET SECTION: (NTS):

Ninety degree parking

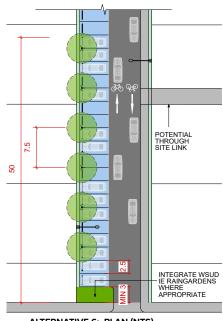
KEY FEATURES - Alternative 6 (refer plan and section this page)

- Angle parking
- · Tree planting in garden or carpark islands

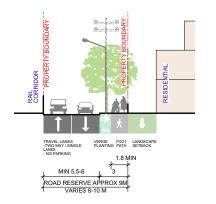
KEY FEATURES - Alternative 7 (refer plan and section this page)

· Tree planting in verge (one side minimum)

PERFORMANCE			
		ALT 6	ALT 7
Tree Target	10 x per 1000m2	6 x per 750m2	4 x per 450m2
Street Shade Area	70% of area	22% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals	45% of area create "cool nodes" with 80-90% (deep) shade at target 100m intervals
Permeable Area	35% of area	13% of area excl perm paving	12% of area excl perm paving



ALTERNATIVE 6: PLAN (NTS)



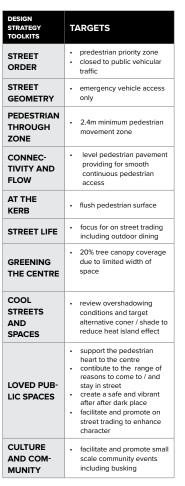
ALTERNATIVE 7: 9M LOCAL STREET SECTION (NTS)

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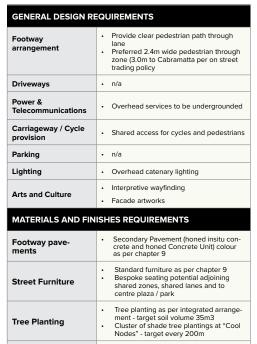
PEDESTRIAN LANEWAY 1

DESIGN IMPLEMENTATION BRIEF PERFORMANCE TARGETS



	Western Sydney Street Design Guide	Fairfield Public Domain Plan
DASHBOARD C	COMPARISON	
Nominal Width		5-10m
Context		Commercial Centre
Built Form		Mixed-use with active ground floor uses
Walking		Travel zone shared with cyclists
Cycling		Travel zone shared with pedestrians
Design Speed		n/a
Posted Speed		n/a
Desirable Speed		n/a
Design Vehicle		n/a
Check Vehicle		n/a
Indicative Traffic		n/a
Lot Access		Pedestrian access only
Buses		No
Max. Length		n/a
Type. Lots Served		Varies
WSUD		Pits and pipes solu- tion generally po- tential to integrate WSUB beds
PERFORMANC	E TARGET COMPA	ARISON
Tree Target		7-9 x per 1000m2
Street Shade Area		20% of area - likely to have strong built form overshadowing
Permeable Area		5-6% of area excl perm paving

DESIGN AND MATERIALS REQUIREMENTS



INDICATIVE IMPLEMENTATION COSTS				
Indicative implementation cost per lin/m of 20m road corridor	\$9,994.00			
Indicative servicing cost per lin/m per year	\$171 / pa			

Street Garden

Planting species

Planting

Street garden planting to tree pits -

minimum 5m2 area

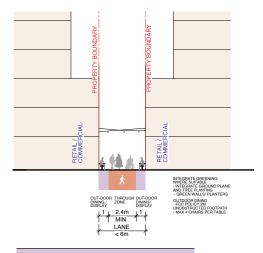
Potential facade planting

Planting species as per chapter 9



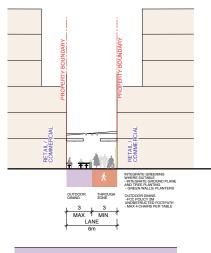


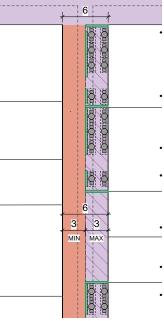
ALTERNATIVES



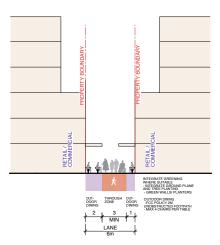
- Central through zone minimum width of 2.4m)other than Cabramatta 3m per Policy)

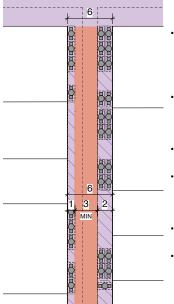
 Outdoor dining located at shop
 - located at shop frontages min 1m depth
 - No fixed street furniture,
 - Lighting either wall mounted, underawning or catenary
 - Ground level greening to maintain through zone
 - Potential for planter boxes
 - Potential for green facades





- One sided through zone minimum width of 2.4m)other than Cabramatta - 3m per Policy)
- Outdoor dining located at shop frontages min 1m depth
- No fixed street furniture,
 - Lighting either wall mounted, underawning or catenary
 - Ground level greening to maintain through zone
- Potential for planter boxes
- Potential for green facades





- Off set through zone minimum width of 2.4m)other than Cabramatta - 3m per Policy)
- Outdoor dining located at shop frontages min 1m depth
- No fixed street furniture
- Lighting either wall mounted, underawning or catenary
- Potential for planter boxes
- Potential for green facades

ALTERNATIVE 1 - 6M SECTION (NTS):

1 2.4

Central through zone, moveable furniture

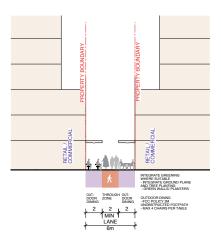
ALTERNATIVE 2 - 6M SECTION (NTS):
One sided through zone, moveable furniture

ALTERNATIVE 3 - 6M SECTION (NTS): Off-set through zone, moveable furniture

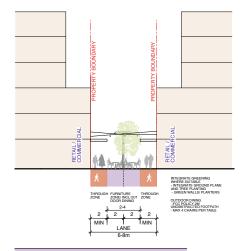
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PEDESTRIAN LANEWAY 2

ALTERNATIVES



- Central through zone minimum width of 2.0m)other than Cbaramatta - 3m per Policy)
- Outdoor dining located at shop frontages min 1m depth
- No fixed street furniture, lighting either wall mounted, underawning or catenary
- ground level greening to maintain through zone
- potential for planetr boxes
- potential for green facades



Split through zone

minimum width of

2.0m) other than

Outdoor dining

located centrally

Policy)

plantings

around level

through zone

Lighting either

wall mounted,

underawning or

boxes

facades

catenary

Cabramatta - 3m per

Fixed street furniture,

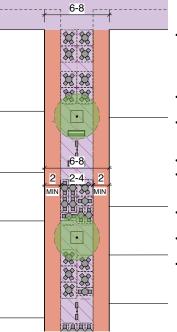
Central tree plantings

greening to maintain

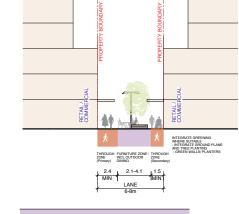
potential for planter

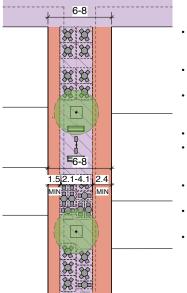
potential for green

integrated with tree



ALTERNATIVE 5 - 8M SECTION (NTS): Split through zones, central dining zone

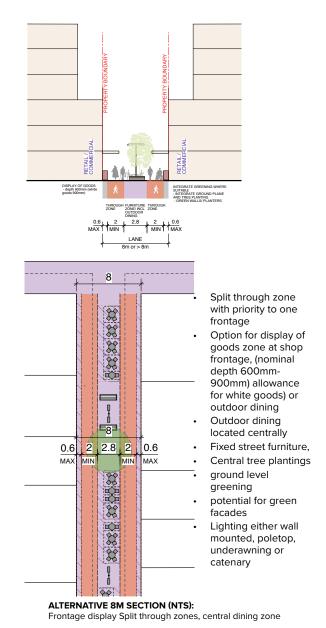


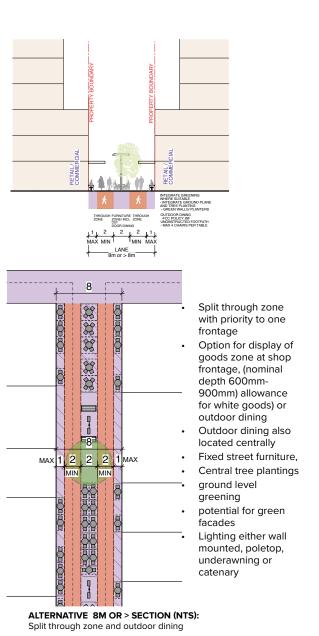


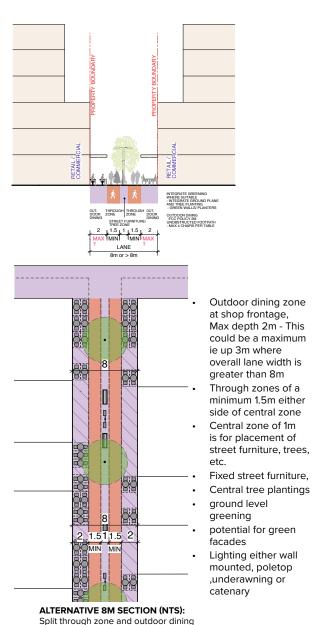
- Split through zone with priority to one frontage
- Outdoor dining located centrally
- Fixed street furniture, integrated with tree plantings
- Central tree plantings
- ground level greening to maintain through zone
- potential for planter boxes
- potential for green facades
- Lighting either wall mounted, poletop underawning or catenary

ALTERNATIVE 4 - 6M SECTION (NTS):
Central through zone, moveable furniture

ALTERNATIVE 6 - 6-8M SECTION (NTS):Split through zones, central dining zone





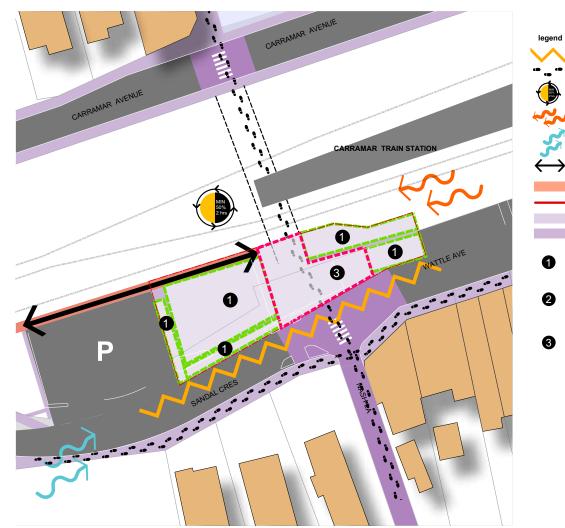


CENTRE SQUARES/PLAZAS-CARRAMAR

DESIGN IMPLEMENTATION BRIEF

PRINCIPLES DIAGRAM (NTS)

DESIGN STRATEGY TOOLKITS	TARGETS
STREET ORDER	at focal junctions of movement in centre
STREET GEOMETRY	- NA
PEDESTRIAN THROUGH ZONE	key routes through space to provide for 2.4m clear movement zone
CONNECTIVITY AND FLOW	pedestrian through access pedestrian link between adjoining streets
AT THE KERB	avoid power lines across site avoid easements across site where possible
STREET LIFE	maximise active frontages to square (ideally 2) provide for on plaza trading adjoining active frontage encourage businesses that contribute to plaza and town centre life
GREENING THE CENTRE	green node 50% tree canopy coverage strong ground plane presence of green 40% surface area target
COOL STREETS AND SPACES	40% summer tree canopy shade Awnings to active frontages create "cool nodes" with optimum (deep) shade Integrate water elements Integrate water play consider evapotranspirative cooling
LOVED PUBLIC SPACES	site at highly visible location site at focus of major pedestrian movement provide balance of summer shade and winter solar access encourage non retail uses provide pro-active programing of community activities
CULTURE AND COMMUNITY	facilitate modal use of square for events integrated with other spaces provide for permanent / temporary arts /cultural





Highly visible location, adjoins street frontage 2 sides At node of Major pedestrian movement

Solar Access - (min 2 hrs of direct sunlight to 50% to usable area, June 21st)

Summer Prevailing wind direction

Winter Prevailing wind direction

Pedestrian access on key

Minimum Through zones

Active frontages 2 sides with awnings

Pedestrian pavement

Shared zone

Greening & Cooling

- 50% summer tree canopy

- 30% green ground plane

Space for on plaza trading adjoining active

- encourage businesses that contribute to plaza life, non-retail uses

Balance active and passive uses including:
- integrate cooling water element
- intregrate play elements

- integrate permanent/ temporary arts/ cultural

expression - end of route cycle facilities

NEW VILLAGE SQUARE AT STATION UNDERPASS PROVIDES CENTRAL GATHERING AND EVENTS SPACE: PRINCIPLES DIAGRAM (NTS)

PERFORMANCE TARGETS

	Centre Square / Plaza
TARGETS	
Size	varies depending on location - 3000m2 minimum
Context	High density residential ideally adjoins some community uses
Street Front- ages	minimum 2 public street frontages
Built Front- ages	preferably 2 built frontages provide active frontages to square provide for on plaza trading adjoining active frontages
Solar access	achieve a minimum of 50% direct sunlight to the principal usable part of the open space for a minimum of 3 hours * between 9 am and 3 pm on 21 June (mid winter) *
Climate	protection from adverse prevailing winds review turbulence implications of adjoining high density developments
Tree canopy	Summer Tree Canopy: 50% Cover
Ground plane	30% min grass & shrub planting
Permeable area	40% (all soft landscape, tree pits)
Walking	provide through movement to cross square routes on minimum 2.4m
Cycling	provide cycle racks
WSUD	Integrate WSUD / wetland basis where feasible and able to serve street runoff

^{*} Note Canley heights DCP 3 hours between 9 am and 3 pm on 21 June (mid winter) ADG = 2 hours







Example public square outcomes

DESIGN AND MATERIALS REQUIREMENTS

GENERAL DESIGN REQUIREMENTS				
Vehicular access	maintenance access Emergency access			
Power & Telecommunications	Overhead services to be under- grounded			
Lighting	Pedestrian Pole-top Lighting to square to P2 level Street Lighting to required level for cycle paths, traffic and pedestrian verge integrated between tree plantings and at pedestrian crossings			
Arts and Culture	Interpretive wayfinding Act as canvas for temporary art installations Potential for integration of limited and focussed permanent art pieces			
MATERIALS AND FINISHES	REQUIREMENTS			
Footway pavements	Secondary Pavement (honed insitu concrete and honed Concrete Unit) colour as per chapter 9 reduced unit size for regular traffic loadings structural bedding course and grout to pavements taking vehicular traffic			
Street Furniture	Standard furniture as per chapter 9 Bespoke seating potential adjoining shared zones, shared lanes and to centre plaza / park			
Tree Planting	Tree planting as per integrated arrangement - target soil volume 35m3 Cluster of shade tree plantings at "Cool Nodes" - target every 200m			
Street Garden Planting	Street garden planting to tree pits - minimum 5m2 area			
Planting species	Planting species as per chapter 9			

Chapter 8 Supplementary Design Requirements

- 01. CYCLE FACILITIES
- 02. STREET TREE PLANTING
- 03. TYPICAL STREET JUNCTIONS
- 04. INCLUSIVE AND ACCESSIBLE PUBLIC DOMAIN



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01. CYCLE FACILITIES

APPROACH

The Public Domain Plan looks to prioritise provisions for cycling through Fairfield LGA in order to encourage cycle use as an alternative mode of transport and for family recreation and fitness.

Research shows that with provision of safe cycle facilities an increased participation in cycling by a broader demographic can result. This includes families and children along with young professionals and students - all of which are expected to be part of the evolving communities of Fairfield LGA.

Principles

Key requirements for promoting cycle use include the following:

- i. provide cycleways with continuity, rhythm, and flow;
- ii. link cycleways to key destinations related to worksplace, school, transport, retail, recreation and entertainment;
- iii. provide attractive cycleways integrated where possible with parkland settings;
- iv. integrate sight lines to ensure safe visibility and clearances between cyclists and pedestrians and vehicles

- v. integrate cycleways with green corridors;
- vi. integrate potential for social cycleways where possible - providing sections of adequate width where conversation can occur with two cycles astride;
- vii. consider cycleway lighting for safe and ambient night atmosphere to key routes;
- viii.promote cycleways through community groups;
- ix. support cycleway education through such initiatives as: buddy programs, community groups, and route awareness

In consideration of these principles the preference for provision of cycle facilities where available space and other influences allow is (in order from 1-4)

- 1. Separated Cycleways
- 2. Shared Use Paths
- 3. Marked On Road Cycleways
- 4. Mixed vehicular and cycle traffic

General guidance for each of these facilities is provided opposite.

1. SEPARATED PATHS



Separated cycle paths are dedicated corridors for cycle use as either bi-directional or one way facilities. They are suitable for regional and local cycle network routes. (Source: RMS NSW Bicycle Guidelines)

Requirements

- Design in accordance with RMS NSW Bicycle Guidelines and Austroads -Part 6a Pedestrian and Cyclist Paths
- Minimum width 2.0m, desirable width 3-3.5m

2. SHARED PATHS



Shared operating space (with pedestrians) for riders in the road reserve. Suitable for regional and local cycle network routes. (Source: RMS NSW Bicycle Guidelines).

Requirements

- design in accordance with RMS NSW Bicycle Guidelines and Austroads -Part 6a Pedestrian and Cyclist Paths
- minimum widths are defined in Austroads Part 6A -Pedestrian and Cyclist Paths (Table 7.4):

-Local access path 2.5m -Commuter path 3.0m -Recreational path 3.5m

- pavement markings in accordance with Fig 5.4 NSW Bicycle Guidelines & CoS Shared Pathways Markings 2012
- provide advisory signage in accordance with section
 6.6 NSW Bicycle Guidelines) level 3 signage

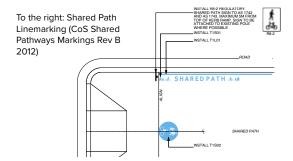
3. LINEMARKED CYCLE LANE TO ROAD



Shared and marked operating space for riders on roads. Suitable for regional and local cycle network routes in moderate to low speed environments. (Source: RMS NSW Bicycle Guidelines).

Requirements

- Design in accordance with RMS NSW Bicycle Guidelines and Austroads -Part 6a Pedestrian and Cyclist Paths
- Visual separation by lines at lane width of 1.4 1.5m as per Fig 5.3 NSW Bicycle Guidelines



4. MIXED TRAFFIC MARKINGS



Shared (with moving vehicles) unmarked operating space for riders on minor roads and residential streets. To provide cycle linkages across the network. Suitable in low speed (less than 50km) / low volume environments. (Source: RMS NSW Bicycle Guidelines).

Requirements

- Design in accordance with RMS NSW Bicycle Guidelines
- Riders share space which is tight enough so that it is not possible to pass
- Pavement markings in accordance with Fig 4.7 NSW Bicycle Guidelines

02. STREET TREE PLANTING

APPROACH

The Public Domain Plan seeks to maximise street trees within the street environments of Fairfield LGA integrated in a coordinated design with other key elements of the public domain including on street parking, street lighting and driveways.

Requirements

- Generally new tree plantings will be provided within the kerbside parking lane of the street due to the limited width of existing footway verges, and the desirability of having tree canopy closer to the centre line of the road (acknowledged to reduce traffic speeds).
- End parking spaces to be 6.4m length with intermediate spaces 5.4m length in accordance with AS 2890.5-1993
 Parking facilities - On-street parking
- Several scenarios are available for the arrangement of street trees, parallel parking spaces and street lighting poles.

Also refer to scenarios opposite page which demonstrate application of the street tree planting scenarios to a typical street.

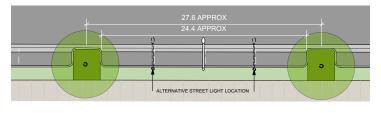
A) 3 SPACES



Features

- 3 spaces between tree pits
- If a street light required in this section two options available at the junction of parking bays

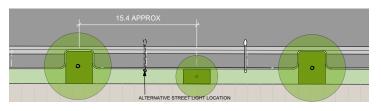
B) 4 SPACES



Features

- 4 spaces between tree pits
- If a street light required in this section three options available at the junction of parking bays

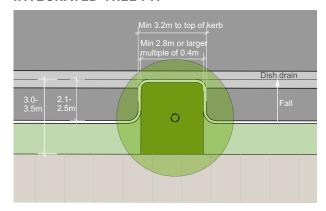
C) 4 SPACES WITH INTERMEDIATE VERGE TREE



Features

- 4 spaces between tree pits
- Wider verge enables option of minimum 1500mm width tree pit in verge for smaller intermediate planting
- If a street light required in this section two options available at the junction of parking bays

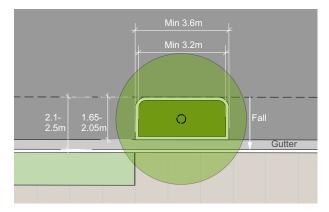
INTEGRATED TREE PIT



Principles

- tree pit integrated with kerb and verge providing larger tree pit and street garden area
- tree planting alignment adjusted to avoid planting directly over stormwater services minimum width of 3.3m to outside top of kerb (3.0m internal)
- internal width must be multiple of 0.3m for integration with stone pavement to retail frontages
- nominal tree pit volume integrated with verge is 8-9m³ - supplement with structural soil cells to achieve target 35m³
- · preferred tree pit solution

ISLAND TREE PIT



Principles

- existing kerbside gutter drainage maintained along with existing kerb
- maximise the width of the island pit for soil volume and street garden impact
- allows for future retrofitting of integrated tree pit by extending kerbs and regrading parking lane
- minimum width of 3.6m to outside top of kerb (3.3m internal)
- nominal tree pit volume integrated with verge is 5-6m³ - supplement with structural soil cells

03. TYPICAL STREET JUNCTIONS

APPROACH

The public domain structure plans define a hierarchy of streets that will intersect with streets of different order in a variety of permutations.

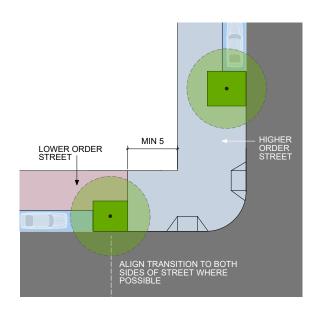
An approach is required to manage these junctions in a systematic way that assists pedestrians, cyclists and vehicles interpret the street order.

Requirements

- At street junctions the higher order street treatments will wrap around the street corner into the adjoining street
- The order as defined by the street hierarchy is as listed:
 - 1 Core High Street
 - 2 Shared Lane / Pedestrian Lane
 - 3 Mixed High Street
 - 4 Circulation High Street
 - 5 Avenue
 - 6 Corridor
 - 7 Local Street
- The transition will reflect the arrival at a street of higher pedestrian importance with the pavements providing a threshold of arrival / transition

- The higher order street pavements /
 treatments shall return into the intersecting
 Street a minimum of 5m from the corner
 boundary
- The treatments should extend to a natural design transition point such as carparking bay, tree pit, driveway etc.

CORNER JUNCTION



EXAMPLE: MIXED HIGH STREET / LOCAL STREET



Features

 mixed high street pavements wrap around corner to start of parking / first street tree

04. INCLUSIVE AND ACCESSIBLE PUBLIC DOMAIN

APPROACH

Planning ,design and management of the public domain must fundamentally address the requirements of section 23 of the Disability Discrimination Act 1992 (DDA) and section 12 of the Disability Inclusion Act 2014 (DIA).

Obligations under the DIA include creating more liveable communities for people with disability, by reducing and addressing barriers to inclusive participation in the public domain.

The City of Sydney in its "Inclusive and Accessible Public Domain Policy 2019" identifies that when barriers are reduced, the majority of people with disability will experience greater independence and equitable opportunities for social and economic inclusion.

Other movements such as "Healthy Streets" reinforce ease of access, fairness, and inclusivity as key pillars of healthy street environments for the whole community.

Fairfield City Council developed it's Disability Inclusion Action Plan in 2017.

The Action Plan was prepared in line with the four NSW Department of Health social justice principles:

Access -

everyone should have fair access to services, resources and opportunities.

Equity -

everyone should have fair opportunity to engage in the future of the community.

Participation -

everyone should be able to participate in decisions that affect them.

Rights -

equal rights should be established for everyone, regardless of their background.

The plan addressed four key focus areas to which Public Domain Plan design must respond as outlined in the table following



Public domain in Fairfield LGA will ensure that barriers to access, use and enjoyment by all abilities are identified and removed where possible

Encouraging positive community attitudes and behaviours	2. Creating liveable communities	3. Supporting access to meaningful employment.	4. Improving access to services through better systems and processes.			
Make the city, its str	eets and spaces accessible	to all abilities by eliminating barrie	rs to access and use			
Integ	rate provisions for all abilitie	es seamlessly to the public domain	fabric			
	Minimise driv	eways to High Streets				
Cont	inue High Street footways a	across side streets with raised thres	holds			
	Provide adequate pedestri	an through zones to all High Streets	5			
	Provide clear and continuo	us line of movement to High Streets	5			
Public domain fu	rniture selections and arran	gement to facilitate use and enjoym	ent by all abilities			
	Improve way finding for a	all abilities within the town centre				
Ensı	ire town centre public spac	es are seamlessly accessible to all ເ	users			
	Plan and implement inclu	sive events in town centre spaces				
	Consider provisions for carers in all public spaces					

Chapter 9 Materials & Finishes Framework



01. MATERIALS FRAMEWORK

A. PAVEMENTS

Response to the public domain principles

The table this page summarises targets for pavement finishes across the principles for Public Domain in Fairfield. These guide materials selections and use across the nine urban centres.

APPROACH

Pavements will provide a quality and hard wearing palette of surfaces drawing on existing finishes and colours but building in flexibility of unit size and use of colour accents to encourage site responsive designs. Finishes and colours build on the major treatments established to date for effectiveness of integration and cost efficiency, while introducing size and colour variations to enable interpretation of urban density and character between major urban centres and smaller village centres, and of varied pedestrian and retail role. Three levels of pavement finish are defined (primary, secondary, and tertiary) to reflect and support the street typology hierarchy.

People Places	Places for All	Comfortable & Interesting	Celebrate Public Life		
 pavement finishes and design provide for comfortable and safe use pavement finishes and design provide a subtle level of diversity that enhances visual richness and interest pavements provide opportunities for selective interpretation of cultural narratives 	 pavement finishes are adaptable where required to vehicular loadings at driveways and shared zones pavement finishes are comfortable and safe wet and dry and across the varied seasons 	 pavement finishes convey a sense of care and quality pavement finishes are comfortable and safe wet and dry and across the varied seasons pavement treatment to facilitate effective make good after services authority works 	 pavement finishes and design provide for comfortable and safe use paving enhances the amenity of the street for movement and for street life pavement surfaces provide flexibility for activity and event use 		
Healthy Places	Functional Place-Responsive		Environmental & Resilient		
pavement finishes are comfortable and safe wet	pavement finishes meet visual and aesthetic	pavements provide opportunities for selective	pavement finishes are		
 and dry and across the varied seasons adequate pavement through zones for comfortable and safe access are provided flush and continuous access 	requirements but are also durable, hard wearing, and long lived pavement finishes are practical for maintenance	interpretation of cultural narratives	supplied from sustainable sources • pavement finishes are installed with sustainable processes and materials • pavement finishes allow for sustainable maintenance		



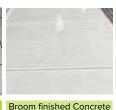


and busy pedestrian links











Dark Grey unit pavers

Red unit pavers

Alluvial unit pavers

Centre Streets and spaces

Honed Insitu Concrete Dark Grey small format unit pavers

Local Streets & shared paths

Dark Grey Granite Setts

Road medians

and splitters

PRIMARY PAVEMENT GENERALLY

Is the highest level of finish to the major urban centres. Primary pavement will generally be fully unit paved and focus on the existing Grey and Red accent as base pavements

The smaller "Village" centres such as Carramar will introduce the Lighter Alluvial colour reflecting their relationship to the adjoining creekline riparian environments, and recognising their more local character and lower intensity of activity.

For Canley Heights which has extensive paved zones to Core High Streets a cost effective mix of honed concrete and unit pavement banding / accent is proposed.

Principles

- Base dark grey pavement to urban centres (grey / white aggregate) to maximise stain resistence
- Use in varied sizes including setts to emphasise seating and slower movement zones
- Use accent pads /shapes of warm red colour
- Use Alluvial base colour to village centres to provide a lighter character
- Integrate accents of Grey and Red to Villages to link character across centres

Requirements

- Unit size 300x300x60mm to pedestrian areas generally
- Honed concrete pavement with 300x300 unit paver header, banding, accent to Canley Heights
- 300x150x60mm as accent / variation for design effect
- 300x150x60mm or 150x150x60mm to trafficable pavements
- structural bedding course and grout to trafficable pavements

Product Codes:

Refer to Councils Public Domain Technical Manual for pavement product codes as applicable.











SECONDARY PAVEMENT GENERALLY

Is the cost effective finish integrating honed concrete with small format unit pavement where resources and / or extent of area cannot support full unit pavement.

Principles

- Honed concrete paved zone from shopfront (approximately 60% of verge width) with unit paver banding
- dark grey small format unit paved transition zone from kerbline (approximately 1.6m width) integrated with tree pits / gardens

Requirements

- 150x150x60mm small format unit paver paved margin
- 300x300x60mm unit paver paving to nodal locations
- Honed Concrete 32Mpa with decorative aggregate lightly exposed

Product Codes:

Refer to Councils Public Domain Technical Manual for pavement product codes as applicable.







TERTIARY PAVEMENT GENERALLY

Is the base level footway treatment of broom finished concrete to local streets and cycle infrastructure.

Principles

Broom finished concrete path to full or partial width of verge

Requirements

- Minimum 1.5m width to local streets
- 1.8m width to provide universal access to local streets



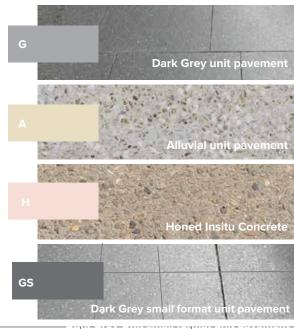


PAVEMENT COLOURS / FINISHES FOR CARRAMAR

The balance of use of the pavement colours reflects existing emphasis where applicable (e.g. Fairfield and Cabramatta) in addition to the practicalities of using darker colours in high use retail trade areas to major centres, and desirability of lighter less "urban" colours / tones to smaller centres.

The table below outlines the required colours to the centre. The table indicates by colour and notation (BS) the base paving colour/s (that is the pavement generally), in addition to colours for use as banding or accent (BDA) which are smaller feature areas or areas requiring a level of variation.

Where two pavement colours are listed as suitable for base pavement or banding / accent roles desigenrs should chose the most suitable for use taking into account the context (adjoining pavement) and design effect.



CARRAMAR	Core Hig	gh Street	Mixed Hi Street	-	Circulation Street	_	Shared z	one / lane	Pedest	rian lane		/ Public ace
Street footways	G BS/ BDA	BS/ BDA	BS	GS BDA	H BS	GS BDA	G BS/ BDA	BS/ BDA	G BS/ BDA	BS/ BDA	G BS/ BDA	BS/ BDA
Driveways	G BS/ BDA	BS/ BDA	H BS	GS BDA	H BS	GS BDA	n	/a	r	n/a	n	/a
Raised pedestrian crossing (linemarked)		1	Н		Н			Н		н		+
Separated cycle path	:	3F	BF		BF		F	3F		BF	F	3F
Shared pedestrian cycle path	n	/a	н		н		G BS/ BDA	BS/ BDA	G BS/ BDA	BS/ BDA	G BS/ BDA	BS/ BDA

Key: Pavement type / colour - all centres

G		Dark Grey Unit Paving
R		Red Unit Paving
А		Alluvial Unit Paving
Н		Honed Insitu Concrete
GS		Dark Grey Small Format Unit Paving
BF		Broom Finished insitu Concrete
AS		Asphalt (AC% surface) Fairfield Heights only
BF		Broom Finished insitu Concrete cycle path (or other surface as noted) with Blue shared Path markings as per City of Sydney Shared Path Guidelines

Key: Pavement Use

BS	Base paving (majority surface area)		
BDA	Banding / accent paving		
BS/ BDA	Interchangable use of colour to base / banding / accent		

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B FURNITURE

Response to the public domain principles

The table this page summarises targets for furniture across the principles for Public Domain in Fairfield. These guide materials selections and use across the nine urban centres.

APPROACH

Street furniture supports the use of the public domain both in terms of day to day access and movement in addition to its role as a place for street and community life.

At its most effective street furniture can enhance the identity and character of the public domain as part of a coordinated design and materials approach.

To selected locations site specific bespoke seating is possible to provide additional amenity.

Refer to Council for requyired furniture selections to specific centres.

People Places	Places for All	Comfortable & Interesting	Celebrate Public Life
 furniture supports and encourages street life arrangement of fixed furniture maintains flexibility for activity and event use 	furniture supports and encourages street life arrangement of fixed furniture maintains flexibility for all users and abilities	 furniture supports lingering and staying in the public domain furniture encourages and enables a broad range of users (age groups, cultures etc) 	 furniture enhances the amenity of the street for movement and for street life furniture supports lingering and staying in the public domain furniture encourages a broad range of users (abilities, age groups, cultures etc) furniture maintains flexibility for events
Healthy Places	Functional	Place-Responsive	Environmental & Resilient
 furniture provides for comfortable use of the street furniture maintains a safe pedetsrtian and cycle environment 	furniture selections finishes meet visual and aesthetic goals but are also robust and durable furniture selections are practical for maintenance furniture selections and installation techniques are practical for replacement	furniture selections offer opportunity to develop cultural identity of centre explore opportunities for selective use of custom furniture elements that can develop site specific or cultural narratives and references	furniture uses sustainable / renewable materials where possible lighting is manufactured and supplied from sustainable sources lighting is installed with sustainable processes and materials
		references	· ·

Use	Performance Requirements
Seat	Interesting but Simple aluminum seat that available in backed and bench options.
Provided to streets and open space to provide for day to day use and serve less mobile and elderly users.	slatted fabrication reduces heating in summer
serve less mobile and elderly users.	Locate in locations where seating will be used
	Locate at bus stops, taxi ranks, kerb extensions, parks and outside public buildings subject to detail design approval
Bin enclosure	Aluminium clad bin enclosure
Provided to streets and open space to provide for day to day rubbish collection in locations where they can be effectively serviced.	Locate near retail centres, recreation spaces, bus stops and other areas with high activity levels where people congregate.
collection in locations where they can be effectively serviced.	Integrate with recycling bin at key locations to encourage recycling
Cycle Racks	Use simple stainless steel loop fixture
Provided to streets and open space where cyclists may wish to leave cycles such as near transport and town centre areas.	locate where locating bikes and stored bikes will not impede safe access of the footway.
cycles such as flear transport and town centre areas.	Racks are normally sited in multiples of four. If the location is justifies only one siting of bicycle racks is required then the rack multiple could be increased to six
Bollards	Simple stainless steel bollard
Only use where definition of pedestrian zone is necessary for safety such	Limit use to where no other traffic control measure is practical
as in wide raised thresholds and areas of shared zones not definable by landscape measures.	Maximum 1.5m spacing to deter vehicles unless approved otherwise
Water Refill Station	Consistent / unified pedestal fixture with signage graphics
Provide water efill station within all core high streets	Locate to key pedestrian and cycle routesand plazas.
Pedestrian Lighting Pole	Provide to supplement lighting of pedestrian movement to Core and Mixed High Streets, through site links and shared and The street of the supplement lighting of pedestrian movement to Core and Mixed High Streets, through site links and shared and the street of the street
Provide simple contemporary elegant pole top lighting to provide pedestrian area lighting	pedestrianised laneways Site specific lighting design required for each location

C. STREET TREE PLANTING

Response to the public domain principles

The table this page summarises targets for Street Tree Planting across the principles for Public Domain in Fairfield LGA. These guide species use across the nine urban centres.

APPROACH

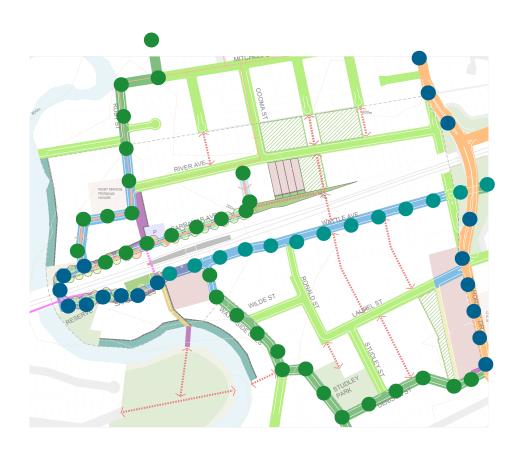
Street trees are a fundamental influence in shaping the character and comfort of the public domain and in creating a human scale to streets.

For Fairfield LGA a a pattern of regular medium to large scale street tree canopy is to be prioritised as the key design structure to which all other public domain elements must integrate.

Tree plantings should preferably be supported by ground level garden bed where possible to increase "green' presence at ground level.

People Places	Places for All	Comfortable & Interesting	Celebrate Public Life
 tree planting enhances the amenity of the street for movement and for street life tree planting provides a reduced and more human visual scale of the street environment 	tree planting enhances the amenity of the street for movement and for street life tree planting defines and guides movement on the street tree planting maintains required sight lines to traffic	 tree planting creates an interesting and visually pleasing environment integrated with and complimenting built form tree planting maintains passive surveillance of street spaces and required sight lines to traffic 	 tree planting enhances the amenity of the street for movement and for street life tree planting supports lingering and staying in the public domain tree planting encourages a broad range of users (age groups, cultures etc) tree planting maintains flexibility for events
Healthy Places	Functional	Place-Responsive	Environmental & Resilient
tree planting provides for comfortable use of the street tree planting maintains a safe pedestrian and cycle environment tree planting selection avoids human health and allergy issues	tree selections finishes meet visual and aesthetic goals but are also hardy and long lived tree species are practical for maintenance	tree species reflect cultural narratives or references where possible tree species offer opportunity to develop cultural identity of centre	 maximise number of street trees to increase canopy shade and reduce heat loading increased canopy shade reduces thermal street on road pavements and can increase pavement life trees are supplied from sustainable sources trees are installed with sustainable processes and materials tree species and planting techniques allow for sustainable maintenance tree species are selected to minimise potable water demand maximise harvested water use for maintenance

The Horsley Drive



Corymbia maculata height: 30-45m spread: 10-15m Angophora floribunda height: 15-18m spread: 2-4m Angophora floribunda height: 15-18m spread: 2-4m Angophora floribunda height: 15-18m spread: 5-8m Angophora floribunda height: 15-18m spread: 5-8m Angophora floribunda height: 15-18m spread: 5-8m Angophora floribunda height: 15-18m spread: 5-8m

Carramar Avenue

Wattle Avenue

Tree supply requirements

Street trees shall be supplied at minimum sizes indicated on the species recommendations and at height spread and calliper in accordance with Specifying Trees: a guide to assessment of tree quality by Ross Clark (NATSPEC, 2003), as noted below:

Stock size Height (above container)		Calipre at 300mm	Clear trunk
100L	2.4m	50mm	1.0m
200L	3.6m	60mm	1.5m
400L	4.2m	95mm	1.8m

D. STREET GARDENS PLANTING

Response to the public domain principles

The table this page summarises targets for furniture across the principles for Street Gardens in Fairfield LGA. These guide materials selections and use across the nine urban centres.

APPROACH

Street gardens support street tree planting in creating a human scale to streets and providing green relief to the urban environment.

For Fairfield LGA street gardens seek to create a strong green presence at pedestrian level. The ability to select varied effects from a planting palette including colours textures and forms enable designers to create a variety of experiences within an overall unified character.

People Places	Places for All	Comfortable & Interesting	Celebrate Public Life
street garden planting provides a reduced and more human visual scale to the street environment street garden planting reduces ambient heat within street environment	street garden planting defines and guides movement on the street street garden planting maintains access for required functions of street type garden bed planting maintains required sight lines to traffic	street garden planting creates an interesting and visually pleasing environment integrated with and complimenting built form street garden planting maintains passive surveillance of street spaces and required sight lines to traffic	street garden planting enhances the amenity of the street for movement and for street life street garden planting supports lingering and staying in the public domain street garden planting encourages a broad range of users (age groups, cultures etc.) street garden planting maintains flexibility for events
Healthy Places	Functional	Place-Responsive	Environmental & Resilient
street garden planting provides for comfortable use of the street street garden planting maintains a safe pedestrian and cycle environment street garden planting selection avoids human health and allergy issues	garden bed species selections finishes meet visual and aesthetic goals but are also hardy garden species are practical for maintenance	garden species reflect cultural narratives or references where possible garden bed compositions offer opportunity to develop cultural identity of centre	maximise garden bed area to reduce heat loading plantings are supplied from sustainable sources plantings are installed with sustainable processes and materials species and planting techniques allow for sustainable maintenance garden species are selected to minimise potable water demand garden areas maximise harvested water use for maintenance

SHRUBS GROUNDCOVERS



Part () vision concepts

A demonstration project is a means of promoting innovations and capturing and disseminating best practice through the development and analysis of a live project. This can help build an evidence base and test and support innovations

UK Designing Buildings Wiki

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Chapter 10 Vision Concepts & Priorities 2021-2040

01. DEMONSTRATION SITES

02. IMPLEMENTATION COSTS FRAMEWORK



01. DEMONSTRATION SITES

Demonstration Site

The demonstration concept provides an illustration of the implementation of the Public Domain Plan to an example site in the town centre.

The area chosen is the retail precinct adjoining the Railway Station where a focus of future redevelopment is to occur.

The demonstration concept seeks to strengthen the relationship of the centre to the Prospect Creek corridor and to leverage off its potential natural values.

It also establishes a central public space that can build the character and community role of the centre precinct and offer expanded opportunities to for street life and events.

Key aspects of the demonstration site concept are outlined following and illustrated on the Concept Plan opposite and photomontage illustrations on the following pages:

- Enhanced street tree canopy to
- 2 Carramar Ave and Sandal Cres.
 - Avenue promoting pedestrian and cycle access along Wattle Ave between
- Carramar and Villawood Town Centre Redirection of bus route and relocation of bus stop in Carramar Ave

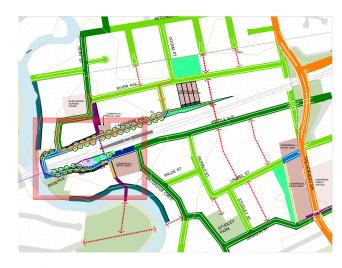
- 4 Green link from Sandal Cres to Ruby Street reinforcing access corridor link to Fairfield Ramped cycle access to existing bridge
- **5** crossing
- Widen and improve amenity to underpass
- 6 of railway line
- Provide lifts to station to improve
- 7 accessibility
- Integrate raised pedestrian crossing with
- 8 public domain footways
- Investigate better opportunities to access

 / experience natural habitat of creek
 corridor
- Additional bridge access across creek
- Shared access lane / through site link to
- the creek frontage potential viewing point Improve existing parkland open space adjoining creek corridor - provide creek
- viewing and possible playspace
 - Re-purpose part of parking area to village
- square for gathering and events

 Compensate parking with new angle / 90
- 14 degree parking off Sandal Cres
- Development setback to Prospect Creek
- for habitat corridor and access to creek corridor



Demonstration site extent - aerial view



Demonstration site extent - structure plan view

LEGEND





Illustrative view 1: Proposed Shared path access and parkland adjoining Sandal Crescent





Illustrative view 2: Park / Square at Railway Station on Sandal Crescent



02. IMPLEMENTATION COSTS FRAMEWORK

Implementation Cost framework for public domain typlogies

The concept design specifications developed for each of the public domain typlogies provide a basis for estimating indicative implementation costs.

These have been calculated for a typical 50m length of street, and for a nominal 20m road width unless otherwise noted. Costs are based on July 2020 implementation costs and do not account for escalation

Operational Cost framework for public domain typlogies

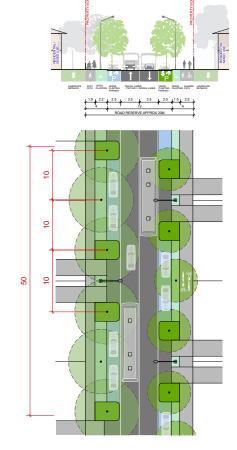
The capacity of Council to maintain completed public domain works at an appropriate level to the finishes of hard and soft landscape implemented is a critical consideration.

The costs framewoprk provides an indicative estimate of operational servicing costs based on benchmarking with contract maintenance services for other LGA's.

Maintenance by Council day labour is likely to provide some cost savings to the estimated allowances.

These allowances adjusted for 2020 (but excluding escalation are:

- -High Streets, Plazas & Pedestrianised areas
- -Avenues and Corridors



\$20.13 /m2 \$7.48 /m2

AVENUE

	INDICATIVE IMPLEMENTAT	INDICATIVE IMPLEMENTATION COSTS		
	Item	indic cost allowance		
1	Mobilisation And Temp Works	\$43,942		
2	Demolition And Excavation	\$27,460		
3	Drainage And Hydraulic Works	\$20,000		
4	Lighting & Power Works	\$nil		
5	Pavement And Kerb Works	\$101,000		
6	Soft Landscape Works	\$88,896		
7	Furniture Works	\$1,650		
8	Public Art Works	\$15,000		
9	Establishment	\$19,500		
	Sub Total	\$314,635		
10	Overheads & margin (8%)	\$25,170		
11	Design allowance (8%)	\$25,170		
12	Contingency (10%)	\$31,463		
	TOTAL BUDGET PER 50M	\$396,440		
	ALLOWANCE PER LIN/M 20M WIDE STREET	\$7,928		

INDICATIVE OPERATIONAL COSTS			
Item		Rate	
a of verge and Iscape per 50I/m	360m2		\$7.48 /m2
TOTAL BUDGET PER 50M PER ANNUM			\$2,693
ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM			\$53.86

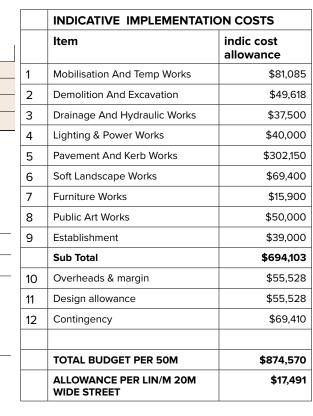
CORRIDOR

20 10

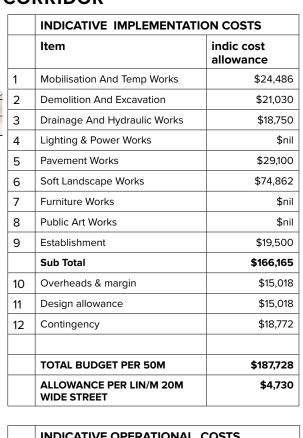
	INDICATIVE IMPLEMENTAT	ION COSTS
	Item	indic cost allowance
1	Mobilisation And Temp Works	\$24,486
2	Demolition And Excavation	\$21,030
3	Drainage And Hydraulic Works	\$18,750
4	Lighting & Power Works	\$nil
5	Pavement Works	\$29,100
6	Soft Landscape Works	\$74,862
7	Furniture Works	\$nil
8	Public Art Works	\$nil
9	Establishment	\$19,500
	Sub Total	\$166,165
10	Overheads & margin	\$15,018
11	Design allowance	\$15,018
12	Contingency	\$18,772
	TOTAL BUDGET PER 50M	\$187,728
	ALLOWANCE PER LIN/M 20M WIDE STREET	\$4,730

INDICATIVE OPERATIONAL COSTS				
Item	Rate			
Area of verge and 200m2 landscape per 50l/m			\$7.48 /m2	
TOTAL BUDGET PER 50M PER ANNUM			\$1,500	
	ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM		\$30.00	

CORE HIGH STREET



INDICATIVE OPERATIONAL COSTS			
Item		Rate	
of verge and scape per 50l/m	559m2	\$20.13 /m2	
TOTAL BUDGET PER 50M PER ANNUM		\$11,252	
ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM		\$225.05	



GUIDELINES DOMAIN Z Z PUBLIC Σ 0 Δ O PUBLI 50 m

MIXED HIGH STREET

	INDICATIVE IMPLEMENTAT	INDICATIVE IMPLEMENTATION COSTS		
	Item	indic cost allowance		
1	Mobilisation And Temp Works	\$71,525		
2	Demolition And Excavation	\$44,296		
3	Drainage And Hydraulic Works	\$30,000		
4	Lighting & Power Works	\$32,500		
5	Pavement And Kerb Works	\$314,060		
6	Soft Landscape Works	\$49,525		
7	Furniture Works	\$9,800		
8	Public Art Works	\$25,000		
9	Establishment	\$19,500		
	Sub Total	\$604,108		
10	Overheads & margin	\$48,328		
11	Design allowance	\$48,328		
12	Contingency	\$60,410		
	TOTAL BUDGET PER 50M	\$761,176		
	ALLOWANCE PER LIN/M 20M WIDE STREET	\$15,233		

INDICATIVE OPERATIONAL COSTS				
Item		Rate		
Area of verge and 529m2 landscape per 50l/m		\$20.13 /m2		
TOTAL BUDGET PER 50M PER ANNUM		\$10,648		
ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM		\$212.97		

CIRCULATION HIGH STREET

	INDICATIVE IMPLEMENTATION COSTS			ON COSTS
- JAPON GOVERNMENT OF THE PROPERTY OF THE PROP		Item		indic cost allowance
9 Y T T S P S P S P S P S P S P S P S P S P	1	Mobilisation And Temp	Works	\$62,184
NT NO COMMON TO SERVICE AND SE	2	Demolition And Excava	ation	\$35,668
	3	Drainage And Hydraul	ic Works	\$17,500
<u> </u>	4	Lighting & Power Work	(S	\$25,000
1889 1980	5	Pavement And Kerb W	orks	\$281,750
3.5 T3 3.5 ROAD RESERVE APPROX 20M	6	Soft Landscape Works		\$28,945
	7	Furniture Works		\$6,200
	8	Public Art Works		\$15,000
	9	Establishment		\$19,500
		Sub Total		\$533,517
	10	Overheads & margin		\$39,519
	11	Design allowance		\$39,519
	12	Contingency		\$49,399
50 m				
		TOTAL BUDGET PER	50M	\$622,437
		ALLOWANCE PER LIN	I/M 20M	\$12,448
		INDICATIVE OPER	ATIONAL (COSTS
		Item		Rate
		of verge and scape per 50I/m	383m2	\$20.13 /m2

TOTAL BUDGET PER 50M PER

ALLOWANCE PER LIN/M 20M **WIDE STREET PER ANNUM**

ANNUM

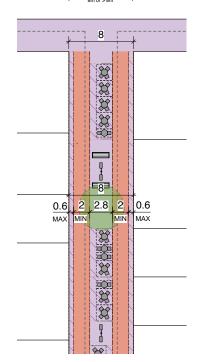
\$7,707

\$154

196

Z

DISPLAY OF COOLS SOME PRINTINGS THROUGH PRINTING



PEDESTRIAN LANE

	INDICATIVE IMPLEMENTAT	ION COSTS
	Item	indic cost allowance
1	Mobilisation And Temp Works	\$45,770
2	Demolition And Excavation	\$28,278
3	Drainage And Hydraulic Works	\$50,000
4	Lighting & Power Works	\$30,000
5	Pavement And Kerb Works	\$154,000
6	Soft Landscape Works	\$16,560
7	Furniture Works	\$26,500
8	Public Art Works	\$30,000
9	Establishment	\$9,750
	Sub Total	\$396,621
10	Overheads & margin	\$31,729
11	Design allowance	\$31,729
12	Contingency	\$39,662
	TOTAL BUDGET PER 50M	\$499,742
	ALLOWANCE PER LIN/M 20M WIDE STREET	\$9,994

	INDICATIVE OPERATIONAL COSTS				
	Item		Rate		
Area of verge and landscape per 50I/m		425m2	\$20.13 /m2		
	TOTAL BUDGET PER 50M PER ANNUM		\$8,555		
	ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM		\$171		

SHARED ZONE

2.4 2.2 2.1 MIN 6 2.1 2.2 2.4
4.6 10.8 4.6

ROAD RESERVE APPROX 20M

	INDICATIVE IMPLEMENTATION COSTS		
	Item	indic cost allowance	
1	Mobilisation And Temp Works	\$124,4,14	
2	Demolition And Excavation	\$48,505	
3	Drainage And Hydraulic Works	\$50,000	
4	Lighting & Power Works	\$67,500	
5	Pavement And Kerb Works	\$536,200	
6	Soft Landscape Works	\$57,990	
7	Furniture Works	\$28,900	
8	Public Art Works	\$50,000	
9	Establishment	\$39,000	
	Sub Total	\$1,009,809	
10	Overheads & margin	\$80,784	
11	Design allowance	\$80,784	
12	Contingency	\$100,980	
	TOTAL BUDGET PER 50M	\$1,272,359	
	ALLOWANCE PER LIN/M 20M WIDE STREET	\$25,447	

	INDICATIVE OPERATIONAL COSTS				
	Item		Rate		
Area of verge and landscape per 50I/m		603m2	\$20.13 /m2		
	TOTAL BUDGET PER 50M PER ANNUM		\$12,138		
	ALLOWANCE PER LIN/M 20M WIDE STREET PER ANNUM		\$242.76		

Part D supporting research

Supporting Research

Appendix 1 Design Toolkits Strategies

STREET ORDER

Objectives

To implement a clear street hierarchy and corresponding guidelines that are consistent across the Fairfield LGA

Key requirements

Street hierarchy developed in accordance with required size and function; topography and natural features determine lot and street layouts

Approach

- Understand the economic drives that influence the centre movement and traffic
- Understand and define access and traffic role
- Maximise pedestrian and cycle amenity to specific routes / areas
- Manage heavy vehicle access to designated areas of high pedestrian use

Benefits

- Provides a structured and more holistic approach to designing the public domain
- Reflects streets' movement and civic role
- Ensures alignment with the Western Sydney Street
- Design Guide
- Provides a basis for Public Domain Guidelines

Value Add

- The classification of streets leads to a greater consideration of the needs of people, rather than vehicles, in street planning and design, and with this comes more people-centric places for the community to enjoy
- This broadens the basis for assessing street performance and prioritising areas for improvement and helps to determine the appropriate balance of street space and capacity to be allocated to different street user groups.
- Establishing a hierarchy and understanding their uses, stresses the role of some streets as places as well as channels for movement

Key Statistics

- Improvements to New Road in Brighton as a shared space street resulted in 62% more pedestrians and 200% more lingering activities Gehlpeople.com
- 5% risk of pedestrian deaths on 32km/hr streets compared to 45% on 48km/hr streets and 85% on 64km/hr streets – UK Dept of Transport

Targets (Numerical targets to reach, which are reflective of best practice, in order to achieve Objective):

- Recommended speed limit of 30km/hr in urban areas with high pedestrian activity - 2018 report from the OECD's International Transport Forum
- Recommended 10km/hr shared streets Waterloo metric
 - Western Sydney Street Design Guidelines:
 - Collector roads
 - 25% green ground plane
 - 35% permeable
 - High Street
 - 10% green ground plane
 - 20% permeable
 - Laneways
 - 0% green ground plane
 - 0% permeable
 - Local Street
 - 30% green ground plane
 - 35% permeable



STREET GEOMETRY

Objectives

To enhance pedestrian safety and priority by reducing traffic provisions to minimum requirements whilst still maintaining road functionality

Key requirements

- Provide additional space for pedestrians through kerb extensions, tightened kerb radii and decreased lane widths
- · Implement cycle medians

Approach

- Reduce traffic lane width to minimum required for function and safety
- Reduce kerb radii to minimum required for function and safety
- · Reduce crossing distances

Benefits

- Kerb extensions reduce the crossing distance and time for pedestrians
- Tight kerb radii slow the speed of turning vehicles
- Minimum lane widths help to slow vehicles and provide more space for other street functions
- Cycle medians protect cyclists from traffic

Value Add

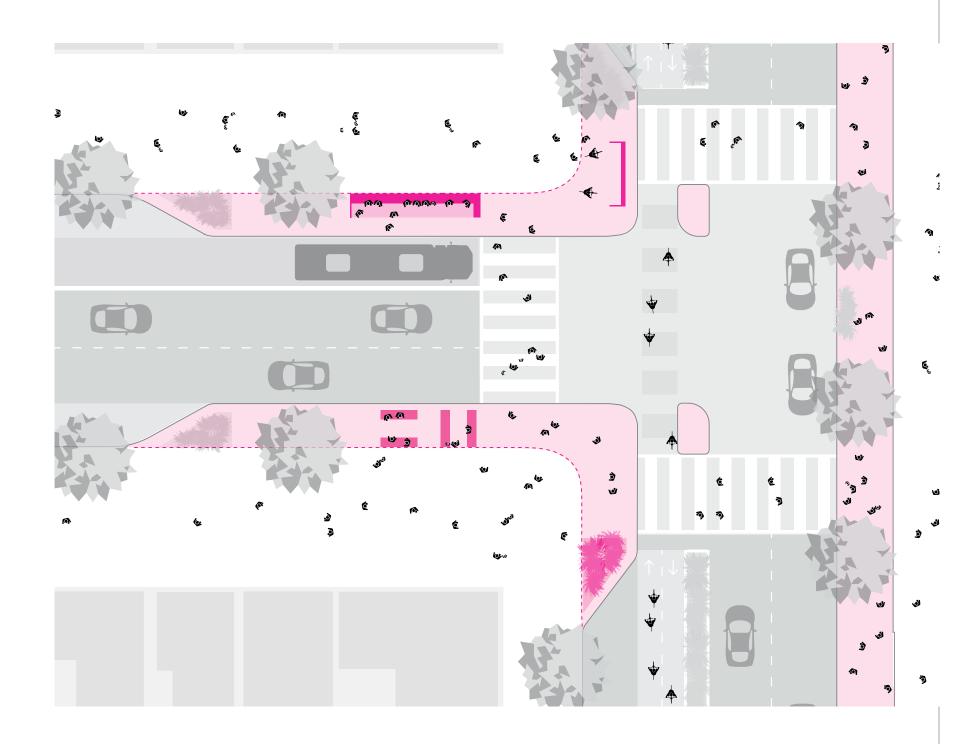
- Prioritises pedestrian safety and use
- Creates safe and easy crossing conditions for pedestrians
- Creates additional capacity for street greening and other uses such as space for bike racks, outdoor dining and bus stops

Key Statistics

 Global research suggests that pedestrians spend 65% more in a place than drivers, particularly when there is high amenity - Peters, 2016

Targets (Numerical targets to reach, which are reflective of best practice, in order to achieve Objective):

- Minimum lane widths*:
 - 3.5m for mixed traffic lanes
 - 3.0m for standard traffic lanes
 - 2.0-2.4m for on-street parking lanes
 - 3.0-6.0m for kerb radii



PEDESTRIAN THROUGH ZONE

Objectives

To ensure that pedestrians including those with a disability have a safe and adequate space for movement that is safe and clear of temporary or permanent obstructions

Key requirements

- Allow adequate space for pedestrians on footway depending on corresponding level of pedestrian activity desired
- Provide landscape buffer where necessary to separate pedestrians from heavy traffic or other incongruent uses

Approach

- Manage placement of fixed street elements (furniture / lights / signage, trees) to increase pedestrian movement space
- Manage on street trading to increase pedestrian movement space
- Increase pedestrian movement space (through zone) through footpath widenings

Benefits

- Improves pedestrian flow
- Increases business activity through improved pedestrian realm

Value Add

- Increases people lingering in the public realm
- Enhances experience of the street by improving pedestrian flow

Key Statistics

 Research suggests if a destination is safe, clean, and relaxed visitors will remain 300% longer and spend more money. Net income for local businesses increase by 42% - Hack, 2013

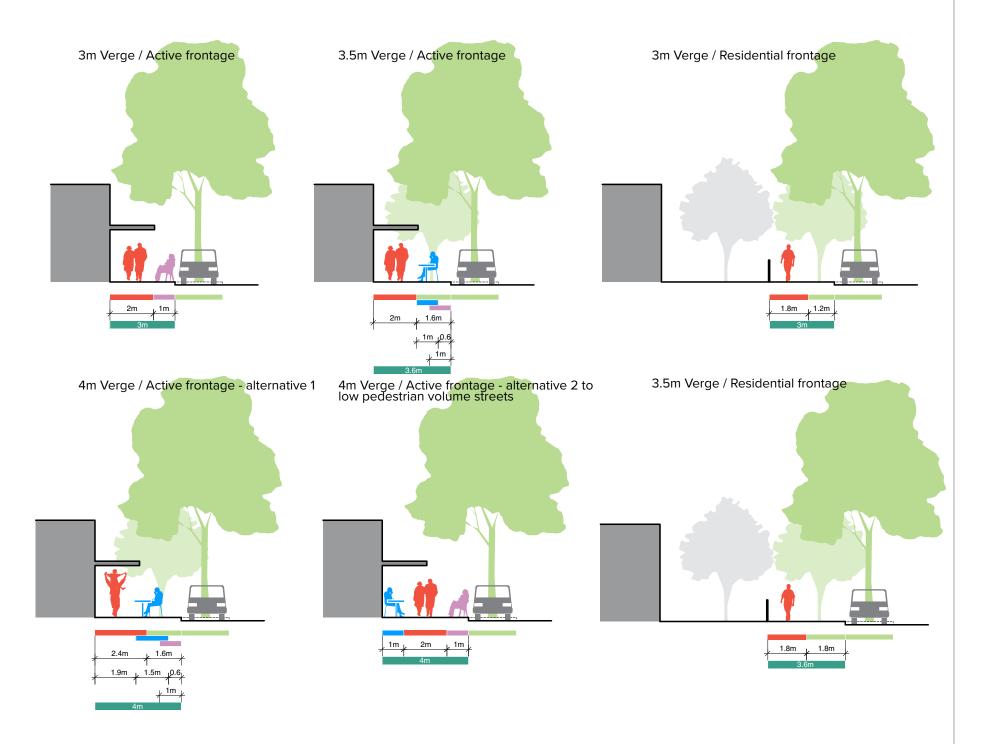
Targets (Numerical targets to reach, which are reflective of best practice, in order to achieve Objective):

- 2.4m is minimum dimension for pedestrian through zone in High Streets (NACTO)
- Where the through zone is adjacent to moving traffic, ensure a buffer zone of 0.6m for street furniture and utilities (NACTO)
- There is 2.5m or more clear width for walking in busy locations
 OR There is 2m or more in moderately busy locations OR There is
 1.5m or more in quiet locations (Healthy Streets)

Verge planting zone Pedestrian through zone Kerbside clear zone

Footway dining zone





CONNECTIVITY AND FLOW

Objectives

To improve pedestrian connectivity, reinforcing the priority of the pedestrian in the street, including providing equitable and inclusive accessibility.

Key requirements

- Provide footpaths that continue through driveways, maintaining sidewalk materials and grade across driveways
- Provide raised intersections and pram crossings that are flush with the sidewalk
- Ensure presence of crossings where main desire lines cross vehicular roads
- Ensure access to transport and accessible parking is provided across the centre
- Provide pathways, ramps and signs between key places including transport, parks and playgrounds
- Utilise principles of Universal Design (7 principles) to reduce barriers faced by people with disability

Approach

- Minimal or no stopping points along pedestrian route
- Minimal or no changes or transitions in level along pedestrian route
- Simple and Intuitive environment with clear lines of sight to important elements
- Clear Wayfinding
- Design that requires low physical effort to negotiate

Benefits

- Reinforces slow speeds and encourages motorists to give way to pedestrians
- Provides inclusive accessibility to promote members of the community as active participants of centre activities, using public spaces and can access key places and services

Value Add

- Creates a safe, slow-speed environment that is more conducive to walking and cycling and thus, an active, healthier lifestyle
- Creates liveable communities

Key Statistics

 15 mins of walking per day reduces risk of mental health issues and early death by 45% and childhood obesity by 50%

Targets (Numerical targets to reach, which are reflective of best practice, in order to achieve Objective):

- Main desire lines across links are met by crossings suitable for all users at all times – Healthy Streets
- There is 2.5m or more clear width for walking in busy locations
 OR There is 2m or more in moderately busy locations OR There is
 1.5m or more in quiet locations Healthy Streets



AT THE KERB

Objectives

To ensure the kerb can be shared and utilized for a variety of functions/activities and for multiple modes and user groups

Key requirements

- Implement future-focussed kerb design today
- Optimise space provided for no stopping zones
- Delineate spaces for the separation of different modes of traffic

Approach

- Minimal extent of kerb without buffer directly adjoining traffic lanes
- Widened footpaths within no standing zones to increase pedestrian space and facilitate street planting
- Underground power / reduce impact of overhad cables

Benefits

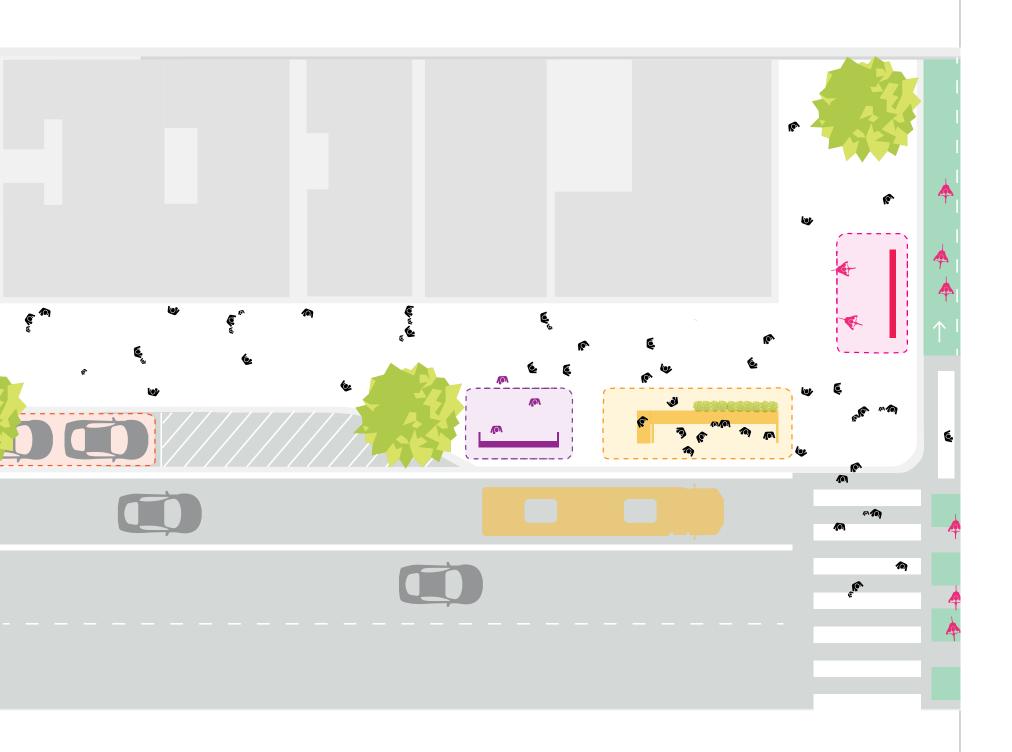
- · Optimises the use of space
- Future-proofs kerb design

Value Add

- Enables a variety of uses at the kerb, as well as different people and modes to take advantage of kerbside space
- Encourages a diversity of public life to play out in the street
- Enhances passive surveillance where there is increased pedestrian activity
- Increases pedestrian safety and priority
- Creates a safer and slower environment

Key Statistics

- Retail sales can increase by 172% when you improve the pedestrian environment - Peters, 2016
- Cycling offers more than a \$21 net benefit to the Australian economy every time a person cycles 20 minutes to work and back
 - Policy Statement by Deputy Prime Minister Anthony Albanese, 2013



STREET LIFE

Objectives

To increase the vibrancy of the street life in the town centre.

Key requirements

- · Encourage footway dining
- Encourage and control footpath trading
- Encourage also "non-commercial" gathering
- Allow for preferred safe and comfortable pedestrian through zones adjoining the building frontage
- Provision of flexible outdoor furniture, clear of pedestrian throughzones

Approach

- · Minimal blank facades
- Minimal vacant shop fronts
- On-street trading
- Variety of reasons to be in street and linger
- Range of seating available
- Community events

Benefits

Increases foot traffic and therefore, business trading

Value Add

- Increases people walking through and lingering in the public domain
- Increases safety and passive surveillance

Key Statistics

- Pedestrians spend as much 65% more than drivers 'Cities alive: Towards a walking world', Arup
- Cycling and walking are estimated to provide up to \$11.80 return per \$1 invested – 'Cities alive: Towards a walking world', Arup



GREENING THE CENTRE

Objectives

To create a greener town centre, through improved landscape treatments and increasing the number of street trees.

Key requirements

- Design of development and landscape are integrated and coordinated for better outcomes
- Street tree planting has primacy in arrangement of street design influences (driveways, parking, drainage, streetlights)
- Coordination and collaboration with WS Street Design Guide
- Increase greenery in the centre via landscape treatments and increased number of street trees
- Create and/or extend ecological corridors

Approach

- Increase regularity of street trees
- Increase number of street trees
- Strategically place trees to maximise visual benefit
- Increase amount of ground level street gardens
- Integrate street trees within parking bays (narrowing visual width of street)

Benefits Environmental

- Improves quality of existing open space
- Improves visual amenity
- · Enhanced urban microclimate
- Improves water quality
- Improves air quality
- · Reduces ambient noise
- Reduces atmospheric CO2
- Improves environmental resilience
- Reduces air temperatures and urban heat island effect

- Reduces the risk of flooding
- Encourages urban wildlife and increases biodiversity, by providing habitats or connections between habitats
- Supports and builds upon existing ecological corridors

Benefits Economic

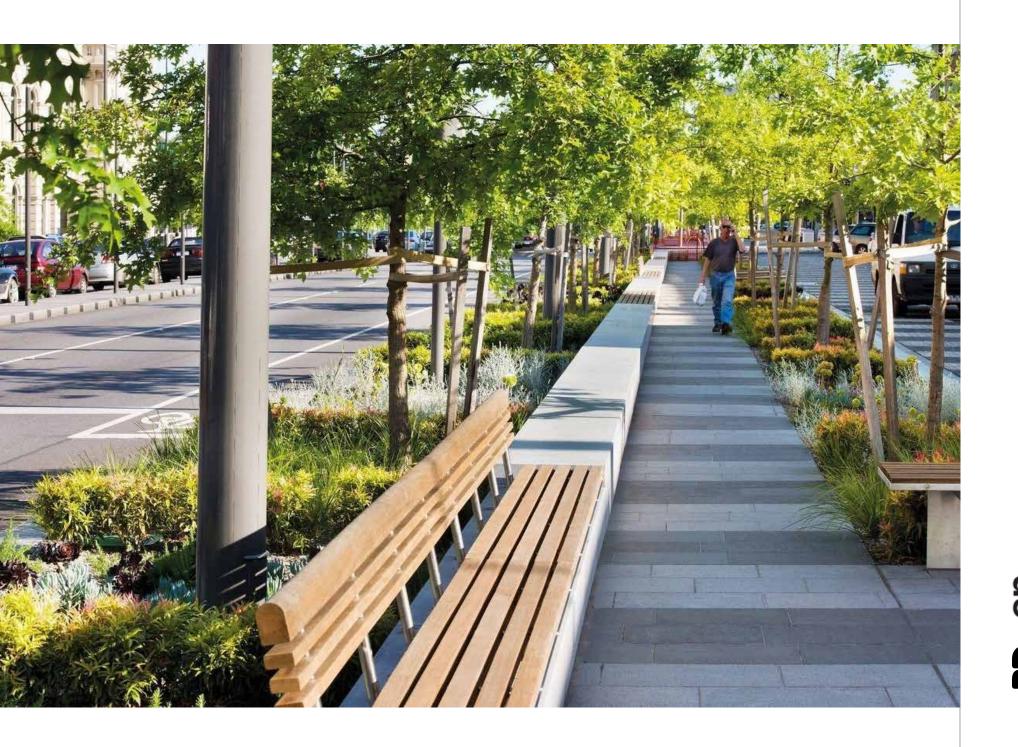
- Boosts property values due to proximity to green space
- Reduces energy costs via microclimate regulation

Value Add

- Improves mental health, well-being and quality of life
- Increases physical activity and access to food
- Supports a rapidly growing population living in higher-density dwellings by providing public green spaces for active and passive recreation
- Provides more opportunities for children to play
- Enhances spaces for socializing and events
- Improves workplace productivity
- Creates opportunities for community participation
- Reduces crime
- Reduces stress
- Improves childhood development

Key Statistics

- People living in areas without access to nature were 1.27 times more likely to experience symptoms of depression - Gyeongbok: 2017
- Improved trees, transit and cycling/walking infrastructure in Portland resulted in 12.5% per capita CO2 reductions as well as annual carbon savings of \$28-70Million and cooler temperatures under trees by 11-25 °C – Smart Growth America



COOL STREETS AND SPACES

Objectives

To provide a comfortable micro-climate within the town centre.

Key requirements

- Use low-impact pavement materials, such as pervious pavements with high reflectivity*
- Implement street trees, bioswales, pervious strips and rain gardens at the edge of the pedestrian path*
- · Reduce the amount of concrete used
- Increase green cover
- Create "cool nodes" along avenues corridors, high streets, and local streets at varied intervals to create pockets of dense shade to reduce ambient heat and provide refuge

Approach

- Increase regularity of street trees
- Increase number of street trees
- Increase continuity of awnings
- Provide clusters of trees (cool nodes) at regular intervals
- Increase presence of water / moisture

Benefits

- Support the cooling of neighbourhoods
- Combat the Western Sydney heat
- Deliver Green Grid connections
- Increase urban tree canopy
- Reduce the urban heat island effect
- Reduce stormwater run-off
- Improve climate change adaptation and resilience
- Improve water quality, filtering pollution before it reaches waterways

Value Add

- Improve environmental conditions for a more pleasant experience of the public realm
- Encourage the use of public space and people lingering
- Increase people's well-being

Key Statistics

Improved trees, transit and cycling/walking infrastructure in Portland resulted in: 12.5% per capita CO2 reductions as well as annual carbon savings of \$28-70Million and cooler temperatures under trees by 11-25 °C – Smart Growth America



LOVED PUBLIC SPACES

Objectives

To create human scale, loveable spaces that are inclusive, comfortable places that feel safe so people can enjoy, want to linger, socialise and spend time in. Public art and community-relevant installations should feature in public spaces to help the community develop attachment and meaning.

Key requirements

- Integrate with Core High Streets
- Locate where it will be most effective and avoid just using residual space/the easy option
- Building frontage and ground level activation to at least one edge/ preferably two

Approach

- Well located spaces
- Adequately sized spaces
- Attractive and flexible
- Attractive and usable to broad range of community
- · Community involvement
- Development of Public Art Installations
- Events

Benefits

- Provides space to linger in addition to a thorough-fare
- Enables a greater opportunity for greening
- Offers greater flexibility and adaptability
- Offers greater potential for creating a cool summer environment
- Bring people together formally and informaly
- Generates a sense of attachment, meaning and pride in the place

Value Add

- Provides 'destination' and/or 'event' spaces for community engagement
- Promotes dynamic activity and engagement within public spaces through installation interactions
- · Activates the local centre with a vibrant street life
- Provides flexible space that can be adapted to various uses/ activities for public enjoyment
- Provides opportunities for exhibiting local art, history and cultural traditions

Key Statistics

"97 per cent of Australians believe that cities and towns are better to live in when public buildings and public spaces are well-designed..."(Galaxy Poll) – Better Placed, Government Architect NSW



COMMUNITY AND CULTURE

Objectives

To leverage the strong existing arts and cultural presence in Fairfield by utilising public space as a canvas for cultural expression

Key requirements

- Commitment to curation of an events program
- Flexible space within plazas unencumbered by fixed elements for pop-up events
- Civic spaces that offer flexible space and can adapt between larger and smaller modes of use

Approach

- Community involvement
- Reflecting cultural influences
- Development of Public Art Installations
- Events

Benefits

- Builds upon existing arts and cultural presence
- Nurtures and celebrates public art and/or community installations
- Promotes different perceptions of the centres
- Develops multi-purpose space that adapts from weekday to weekend use

Value Add

- Encourages the use of public space and people lingering
- Increases sense of community and ownership within residents
- Enhances the cultural and social life of residents
- Improves social well-being

Key Statistics

- Research shows "that when people in engage in passive activities, such as attending arts events, concerts, museums and historical sites, as little as once a year, they report greater life and leisure satisfaction and general happiness" - Culture, Value and Place 2018
- "Datasets from the UK show that cultural volunteers (such as festival, gallery, heritage or museum volunteers) between age 16 and 64 are more likely than non -volunteers to be involved in their local communities and feel confident that their contributions are positively influencing their local environment." - Culture, Value and Place, 2018, NSW Department of Planning and Environment



Appendix 2 Policy Overview

POLICY OVERVIEW



GLOBAL



UN - HABITAT III - THE NEW URBAN AGENDA

Three key principles have been established, including an implementation plan to be utilised as a key instrument for enabling national, regional, local governments and relevant stakeholders to achieve sustainable urban development.

The key principles include:

- 1. Leave no one behind
- 2. Ensure sustainable and inclusive urban economies
- 3. Ensure environmental sustainability



UN - THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

The Sustainable Development Goals are a universal call to action including 17 goals forming part of the 2030 Agenda for Sustainable Development. This Agenda outlines the 15-year plan to achieve these goals.

The most relevant goals include:

- Goal 3: Good Health and Well-being
- Goal 11: Sustainable Cities and Communities
- Goal 13: Climate Action
- Goal 15: Life on Land



NATIONAL



CREATING PLACES FOR PEOPLE -AN URBAN DESIGN PROTOCOL FOR **AUSTRALIAN CITIES**

Establishes 12 broadly agreed principles for quality urban spaces in Australia. These principles can be applied to any project or location.

The 12 principles are centred around the following aims:

- Place: productivity and sustainability Enhancing; Connected; Diverse; and Enduring
- People: liveability Comfortable; Vibrant; Safe; and Walkable
- Leadership and governance Works within the context; Engages with relevant stakeholders; Excellence; and Custodianship







HEALTHY SPACES AND PLACES - A NATIONAL GUIDE TO DESIGNING PLACES FOR HEALTHY LIVING

Through practical tools, case studies and guidelines, this document aims to encourage the development of built environment that provide opportunities for physical activity and other health-related activities.

The document identifies key principles to plan for healthy communities:

- Active transport
- Aesthetics: attractiveness of a place or area
- Connectivity
- Environments for all people
- Mixed density
- Mixed land use
- Parks and open space
- Safety and surveillance
- Social inclusion
- Supporting infrastructure





NATIONAL



SMART CITIES PLAN

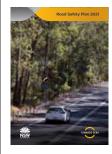
Sets out the Australian Government's vision for our cities, and the plan for maximising their potential.

The three pillars include:

- Smart Investment: prioritise projects that meet broader economic and city objectives such as accessibility, jobs, affordable housing and healthy environments.
- 2. Smart Policy: work across all levels of government to develop City Deals that unlock public and private investment

in key economic centres.

 Smart Technology: embrace new technology with the potential to revolutionise how cities are planned, function, and how our economy grows.



ROAD SAFETY PLAN

The plan adopts the internationally recognised Safe System approach, as a holistic and prove approach towards Zero death and serious injuries. The 4 approaches include:Safe Speeds, Safe People, Safe Vehicles and Safe Roads.

The key Priority Areas include:

- Liveable and safe urban communities
- Building a safer community culture



STATE



BETTER PLACED

The Policy "Better Placed has been developed by the Government Architect to deliver the strategic approach needed to ensure that as our cities and towns grow bigger they get even better."

Key, applicable objectives include:

Objective 1 - Better Fit: Contextual, local and of its place

- Objective 3 Better for Community: Inclusive, connected and diverse
- Objective 4 Better for People: Safe, comfortable and liveable
- Objective 6 Better Value: Creating and adding value
- Objective 7 Better Look and Feel: Engaging, inviting and attractive



GREENER PLACES

The Policy "Greener Places has been developed by the Government Architect to deliver the strategic approach for encuring connection and integration of our green assets, ensuring their contribution to quality of life, and that the environment and the economy are maximised, rendering a

working whole that is greater than the sum of its parts."

Key principles for creating Greener Places include:

- Principle 1: Integration
- Principle 2: Connectivity
- Principle 3: Multifunctionality
- Principle 4: Participation



DRAFT - OPEN SPACE FOR RECREATION GUIDE - GREENER PLACES

The guideline, 'Open Space for Recreation' is a document supporting the guide and implementation of the Policy document "Greener Places, developed by the Government Architect. Key applicable strategies include:

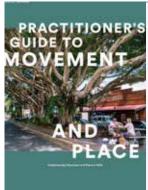
- Strategy 1: Improve the provision and diversity of open space for recreation
- Strategy 2: Understand the demands on existing open

- space, and plan for open space in new and growing communities
- Strategy 3: Improve the quality of open space for better parks and facilities
- Strategy 4: Use open space to connect people to nature
- Strategy 5: Link to the network of green space
- Strategy 6: Encourage physical activity by providing better parks and better amenity
- Strategy 7: Provide open space that is multifunctional and fit for purpose
- Strategy 8: Design versatile, flexible spaces





STATE



PRACTITIONER'S GUIDE TO MOVEMENT AND PLACE

This guideline supports the Movement and Place Framework developed by Government Architect NSW and Transport for NSW. Its role is povide a common structure for place-based transport and city planning. It establishes built environment indicators to be used as criteria for evaluating the outcomes.

These include:

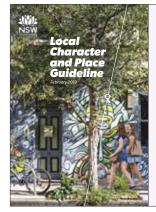
- Character and Form: human scale, distinct
- Access and Connection: transport choice, reliable transport, equity
- Amenity and Use: local opportunities, convenient facilities
- Green and Blue: link to nature
- Comfort and Safety: low risk, comfortable



FUTURE TRANSPORT STRATEGY 2056

Future Transport 2056 acknowledges the vital role transport plays in the land use, tourism, and economic development of towns and cities. It includes issue-specific and place-based supporting plans that shift the focus away from individual modes of transport, toward integrated solutions. The Strategy and Plans also focus on the role of transport in delivering movement and place outcomes that support the character of the places and communities we want for the future. Key Future Transport Statewide outcomes to consider:

- Customer Focused Convenient and responsive to customer needs
- Successful Places Sustaining and enhancing the liveability of our places
- A Strong Economy Connecting people and places in the growing city
- Safety and Performance Safely, efficiently and reliably moving people and goods
- Accessible Services Accessible for all customers



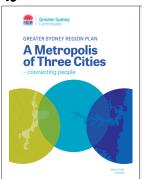
NSW LOCAL CHARACTER AND PLACE GUIDELINES

The guideline provides information to clarify the key influences of local character and place, how local character can be integrated into the planning system and current approaches for the inclusion of local character in local planning. Part Two of the document explains the Character Assessment Toolkit, which aims to encourage consideration of local character in strategic planning through the following steps:

Step 1 - Hearing from your community

- Step 2 Identifying an area's character
- Step 3 Examine different sources of information and map local character
- Step 4 Setting desired future character
- Step 5 Producing a character assessment

REGIONAL

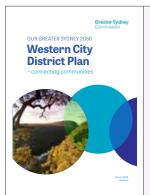


A METROPOLIS OF THREE CITIES

As an overarching strategy, this document sets out a framework and vision of transforming Greater Sydney into a metropolis of three cities where most residents live within 30 minutes of their jobs, education, and health facilities, services and great places. It is centred around the following key themes:

Infrastructure and Collaboration: The Western Sydney
 Deal will optimise infrastructure and business investment,
 employment and liveability outcomes

- Liveability: Place-making will help to design neighbourhoods with fine grain fabric and human scale.
- Productivity: The city will include expansive industrial and urban services lands to the north and east of the Western Sydney Airport
- Sustainability: Increased tree canopy cover will provide shade and shelter for walkable neighbourhoods within easy reach of shops and services. The parkland character will be enhanced by the national parks and rural areas framing the city



WESTERN CITY DISTRICT PLAN

The Western City District Plan characterises the Fairfield local government area as a diverse neighbourhood and multicultural hub, recognising the important role that migrants and refugees play in the social and economic landscape of the district.

The following planning priorities are relevant to Fairfield LGA:

 Planning Priority W3: Providing services and social infrastructure to meet people's changing needs

- Planning Priority W4: Fostering healthy, creative, culturally rich and socially connected communities
- Planning Priority W6: Creating and renewing great places and local centres, and respecting the District's heritage
- Planning Priority W15: Increasing urban tree canopy cover and delivering Green Grid connections
- Planning Priority W18: Delivering high quality open space



WESTERN SYDNEY STREET DESIGN GUIDELINES

The Western Sydney Street Design Guidelines seeks to address the creation of places that "sit comfortably within communities, neighbourhoods and town centres, while providing improved environmental, social and health outcomes for all street users.

The Guidelines have been established to ensure consistency and standardisation of projects of all scales across the LGA of the partnering councils to be used as a key reference for the evealuation, planning and design of streets."

The following components of the report are relevant to Fairfield LGA:

- Designing Great Streets
- Components of Great Streets





LOCAL



FAIRFIELD CITY PLAN

This strategy sets out the vision, themes and priorities for the future of Fairfield City. The relevant themes to consider include:

Theme 1: Community Wellbeing

- A diverse community of many cultures that is valued and celebrated
- Healthy and active community
- A safe community

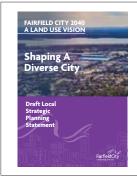
An inclusive city with access to opportunities for the community

Theme 2: Places and Infrastructure

- An accessible and liveable City
- Community assets and infrastructure are well maintained into the future
- Inviting and well used open spaces

Theme 4: Local Economy and Employment

- · Range of resilient businesses
- Attractive and lively City



FAIRFIELD DRAFT LSPS 2019

This document sets out the 20-year vision for land use planning and decisions to inform the Local Strategic Planning Statement - Fairfield 2040 - 'Shaping a Diverse City'. The LSPS contains planning priorities and actions to deliver a diverse City, offering choice in housing, access to jobs, open space and parklands and thriving centres.

The LSPS:

- Sets the foundation for what makes Fairfield City great
- Identifies what the community needs into the future
- Directs how planning will deliver a City the community needs

The LSPS identifies Fairfield as:

- A cosmopolitan destination attracting new residents to create new lives and embrace lifestyle and employment opportunities
- A place with strong existing social, cultural and familial networks



ECONOMIC DEVELOPMENT STRATEGY 2019 UPDATE

The Strategy sets out to provide an update on Fairfield City's economic development taking into consideration changes to policy and legislation across all levels of government. The report also examines ways to nurture business and employment growth. Relevant considerations to inform the Public Domain work include:

A range of resilient businesses

- · Enhance the look and feel of the area
- Improve access to public transport
- Facilitate the establishment of a greater assortment of shops

An attractive and lively city

- Consult with the community to design attractive town centres
- Build safe and pleasant public spaces
- Deliver placemaking programs involving local artists, organisations and communities



LOCAL



FAIRFIELD DISABILITY INCLUSION ACTION PLAN 2017

This document sets out actions for Council to continue improving access and inclusion for people of all abilities in the community.

The DIAP sets out a Vision, and key focus areas which align with the NSW Disability Inclusion Act including:

- Community Attitudes and Behaviours
- **Creating Liveable Communities**
- Supporting access to meaningful employment
- Improving access to services through better systems and processes



FAIRFIELD CITY CENTRE URBAN DESIGN STUDY

Urban Design study conducted in 2018 for Fairfield City Council.

The key considerations of the report included:

- Challenges, strengths and recommendations to inform current place character and be a base for site audit
- Previous community engagement undertaken

- Key community needs were:
 - Additional affordable housing
 - Additional open space in areas of deficiency
 - Improved access to public open space
 - Space for community facilities



Appendix 3 Document Review

DOCUMENT REVIEW

Document	Fairfield City Centre Urban Design Study		
Ву	Prepared by AEC, LFA and TPG for Fairfield City Council		
Date	March 27, 2018		
Purpose	Urban Design Study		
Objectives	 opportunities and threats through site visits, literature review, and stakeholder consultation Outline a strategic approach to planning and development standards Test development scenarios based on economic feasibility and minimising amenity impacts Identify road network and public domain improvements in the Town Centre and its immediat surrounding area reflecting existing weaknesses as well as demand generated from future development Recommend development standards within Fairfield Local Environmental Plan 2013 (FLEP 2013) and development controls within the Fairfield City Centre Development Control Plan 		
Key Strategies	 Review of city centre in the local and regional context, identifying constraints, opportunities and key sites in the Fairfield City Centre Review statutory and strategic planning context Review current city centre economy to identify economic opportunities for the future Stakeholder engagement Form urban design principles and concepts for key sites based on findings and stakeholder engagement feedback Recommended amendments to the current planning framework to enable the outcomes for key site design principles and concepts 		

Influences / considerations for Public Domain Plan	Mapping of current strengths, weaknesses and opportunities to inform current place character and be a base for site audit Key Place Constraints for Fairfield City Centre The Railway Line, Barbara Street and The Horsley Drive are significant barriers to pedestrian movement The large Neeta City Shopping Centre block impedes through-site link connection, particularly after business hours Lack of public plaza space Unattractive laneway environment in Nelson St Car Park provides main pedestrian east-west
	 Key Place Opportunities for Fairfield City Centre Establish new through-site connections on large shopping centre sites Extend new east-west link to eastern Prospect Creek sites via an overpass Extend the Ware street spine to the Fairfield Forum Strengthen the fine grain nature of pedestrian laneways through activation opportunities Establish new laneway connections where appropriate Improve pedestrian and bike connectivity between the city centre and Fairfield Park Key site principles to be built upon through place opportunities and delivery plan Key Site Principles: Centre amenity Centre connectivity Centre economy Centre vitality Previous community engagement undertaken to be understood and considered to ensure engagement fatigue does not occur through additional engagement carried out through public domain plan

Document	Fairfield City Centre Marketing and Branding Plan		
Ву	Place Partners Place Making Consultancy		
Date	2011		
Purpose	 Leverage on and encourage the current activity produced in Fairfield City Centre Ensure the future development and potential of the centre 		
Objectives	 Change outsiders' perceptions about Fairfield Showcase and foster a sense of pride in community assets that make Fairfield City Centre unique Draw new patronage to Fairfield City Centre from outside the local area Improve the perception of safety throughout the Fairfield City Centre Strengthen Fairfield City Centre's role as a key Western Sydney destination 		
Key Strategies	 Review of marketing activities and, competition and market analysis Stakeholder and community engagement (including Traders and Shoppers surveys) to determine the appropriate marketing response as well as the Town Centre's strengths, weaknesses, opportunities and threats. Analysis of the physical structure of Fairfield, its people and values, identity and the existing role and function of the centre Development of a marketing and branding plan built on 5 key themes Mystery Discovery Adventure Primacy 		

Influences / considerations for Public Domain Plan

- Consider Fairfield City Centre's unique offering on which to leverage:
 - "uniting disparate cultures and providing a genuine mix of local cultural specialities and business expertise"
- The attractor/offer for each target market section sheds light on the people who are potentially engaging with public space at different times throughout the day
- Consider Fairfield's unique selling points (food, fabrics, cultural materials and braiding) and their locations
- Consider the 7 features of most importance to the community derived from community engagement:
 - "A clean and attractive place to live
 - Less crime and more police
 - Trains and buses that connect
 - Improved shopping centres
 - More car parks
 - Community spirit and integrated community
 - Lots of parks, open space and cycleways"
- Consider the emerging precincts within the Town Centre including:
 - Ware Street & Spencer Street main streets
 - Middle eastern precinct
 - Civic precinct
 - Thai and Lao precincts
- Consider existing and future audiences of the Town Centre (families with tight budgets, mixed generations of migrants, elderly retirees)
- Consider ways in which the public domain can reflect Fairfield's marketing and branding strategy including banner installation and space for events that showcase Fairfield's unique offering
- Ensure unique aspects of Fairfield mentioned are retained and enhanced

Document	Fairfield Town Centre Strategic Plan		
Ву	Fairfield City Council		
Date	2004		
Purpose	 Implement economic, social and environmental initiatives aimed at realising Fairfield Town Centre's potential Create a place in which people want to live, work, visit and invest 		
Objectives	Vision: Build upon the good mix of retail and commercial services to create a Sydney-wide profile, attracting more residents, investors and visitors Combine the best aspects of the city's past and future Enhance friendly village feel Encourage a broad range of community-based learning, cultural, leisure and recreational activities Renew town centre by executing new developments, as well as preserving existing buildings and remnants of the past Upgrade the gateways to the town centre, especially the The Crescent and railway station		
Key Strategies	Seven Directions to achieve the vision Inclusive design that enhances the unique character of the town centre A safer town centre Reinforce gateways, access and wayfinding in and around the town centre Bring streets to life Stimulate economic development and increase employment opportunities Facilitate social and cultural development and improve education and training opportunities Create a new image for the town centre Subsequent design actions for each Direction		

Influences /		Relevant considerations in Action Plan include:		
considerations for	Direction 1 Actions:			
Public Domain Plan		- A new Development Control Plan		
		- Strengthen town centre character		
		- Protect and enhance public domain		
		- Sydney Metropolitan Strategy integration		
		- Guide and support developers		
		- Section 94 Plan review with transport		
		component		
		- Infrastructure audit		
		- Contain retail and commercial development		
		within existing boundaries of town centre		
		Direction 2 Actions:		
		 New and improved lighting 		
		- Improve car parks		
		 Improve footpath and parks maintenance 		
	•	Direction 3 Actions:		
		 Strengthen Crescent Precinct and Railway Link 		
		to southern leisure, education and social hub		
		 Renew Barbara St Civil and Cultural precinct 		
		 Re-open Spencer St to one-way traffic from 		
		Ware St		
		 Upgrade Hamilton Rd Gateway 		
		 New streetscape design for Ware St, Smart St 		
		and Spencer St		
		- Wayfinding and public art enhancements		
		throughout town centre		
	•	Direction 4 Actions:		
		- Laneway improvements		
		- New pedestrian crossings		
		- Footpath widening		
		- Road openings/closures		
		- Car parking access improvements		
		- New cycle route and bridge		
		- Encourage active transport		
		- Beautify streetscape		
		- Increase play equipment		
		- Improve pedestrian links		

Direction	ᄃ	Actions:

- Leverage on Fairfield's position as one of '7
 Cities within the City of Sydney'
- Establish LGA retail hierarchy
- Develop existing services and creative industries
- Consolidate role as a regional retail and commercial centre
- Direction 6 Actions:
 - Activate evening economy
 - Encourage activities for youth, kids and families
 - Create more meeting and creative spaces
 - Nurture existing cultural and performing art centres
 - New library
- Direction 7 Actions:
 - Develop Fairfield's unique sense of place
 - Re-brand town centre
 - Develop communication and place marking strategies

Document	Original Strategic Planning Project		
Ву	People, Place and Partnership		
Date	2004		
Purpose	 Implement economic, social and environmental initiatives aimed at realising Fairfield Town Centre's potential Create a place in which people want to live, work, visit and invest 		
Objectives	Identify current opportunities and constraints Devise strategies to foster the development of Fairfield Town Centre		
Key Strategies	Stakeholder and community engagement to determine town centre's strengths, weaknesses, opportunities and threats		
Influences / considerations for Public Domain Plan	Considerations include: Stimulate economic development and reduce youth unemployment Foster education, social and cultural development Strengthen gateways, access and wayfinding in and around the town centre Seven Vision Directions (See Fairfield Town Centre Strategic Plan) Street improvements Car park improvements New development controls		

Document	Interwoven Program Plan	Influences /	Outcomes of the plan include:
Ву	Prepared by Martha Jabour in conjunction with Fairfield City Council	considerations for Public Domain Plan	Integration of art into city planning, design of buildings and landscaping
Date	Date 2013-2017		 Art-enriching pedestrian, resident and visitor experience
Purpose	Place-making Public Art Program		- Initiatives that build upon and reflect the cultural
Objectives	 Put the goals of the Fairfield City Plan 2010 - 2020 Community Strategic plan Fairfield Cultural Plan 2020, Town Centre Strategy for the Fairfield Town centre 2006 and Fairfield City Centre Revitalisation Program 2013-17 into action Provide guidance for the future Interwoven program When implementing public art projects, ensure there is an integrated approach across council departments linking and developing community and cultural initiatives to the Fairfield City Centre Place Management Program. Provide a four-year strategy to action and prioritise the Interwoven projects. Enable artists and community groups to come together to develop concepts and designs for the public spaces of the Fairfield City Centre 		identity of the city centre Gateways to the city centre that are demarcated by public art Inclusive cultural program that is reflective of communities' needs.
Key Strategies	 Interviews, program reviews and a workshop were undertaken with council staff and key community cultural stakeholders to identify the different existing and developing projects Identifies a range of public art and activation opportunities for a range of public spaces in Fairfield City Centre 		

Document	Fairfield City 2040 A Land Use Vision - Shaping a Diverse City	Key Strategies	Ensure the vision and themes outlined in this plan become a strong guide and benchmark for all work and planning. Include actions		
Ву	Fairfield City Council te 2019		outlined here in delivery plan Vision:		
Date			"We are Fairfield City – a welcoming, safe and diverse community where we are proud to belong, invest and prosper."		
• Ou ur • Id ma • Di ma • Int • Im Pr • Ide	unique Identify shared community values to be enhanced or maintained		Five themes to achieve the community's vision. - Community Wellbeing - Places and Infrastructure - Environmental Sustainability - Local Economy and Employment - Good Governance and Leadership		
	 managed Inform changes to planning rules in the LEP and DCP Implement the relevant Directions and Planning Priorities in the Western City District Plan (2018) Identify where further detailed strategic planning is needed 	Key Strategies	These five themes will be implemented through the 16 planning priorities, each having a number of specific actions associated with it. These actions are the specific measures that will be undertaken to guide and inform land use decisions to 2040. The Action Plan identifies the timeframe (short, medium and long term), responsibility and monitoring measure for each action Previous community engagement undertaken to be understood and considered to ensure engagement fatigue does not occur through additional engagement carried out through public domain plan		
Objectives	 Provides the strategy for the Fairfield community's economic, social and environmental land use needs over the next 20 years Sets clear planning priorities about what will be needed, such as jobs, homes, services and parks, where these should be best located and when they will be delivered Sets short, medium and long-term actions to deliver the priorities for the community's future Brings together and builds on planning work found in Council's other plans, studies and strategies such as the Local Environmental Plan (LEP), Development Control Plans (DCP) and Development Contributions Plan This document is to be used to update these plans Community engagement is an essential part of how Council plans for the future of Fairfield City. The engagement activities undertaken as part of the community engagement strategy are designed to harness the success of existing networks and previous engagements 	Influences / considerations for Public Domain Plan	Consider Fairfield City Centre's unique offering on which to leverage: "uniting disparate cultures and providing a genuine mix of local cultural specialities and business expertise" The attractor/offer for each target market section sheds light on the people who are potentially engaging with public space at different times throughout the day Consider Fairfield's unique selling points (food, fabrics, cultural materials and braiding) and their locations Consider the 7 features of most importance to the community derived from community engagement: "A clean and attractive place to live Less crime and more police Trains and buses that connect Improved shopping centres More car parks Community spirit and integrated community Lots of parks, open space and cycleways" Consider the emerging precincts within the Town Centre including: Ware Street & Spencer Street main streets Middle eastern precinct Civic precinct Thai and Lao precincts Consider existing and future audiences of the Town Centre (families with tight budgets, mixed generations of migrants, elderly retirees) Consider ways in which the public domain can reflect Fairfield's marketing and branding strategy including banner installation and		

enhanced

Appendix 4 Best Practice Framework

HEALTHY STREETS

Healthy Streets is an evidencebased approach for creating fairer, sustainable, attractive urban spaces.

The approach focuses on the health impacts of transport, public realm and urban planning. Key elements identified as necessary elements for public spaces to improve people's health are the same as those needed to make urban places socially and economically vibrant and environmentally sustainable.

10 Healthy Street Indicators have been developed, focusing on the human experience, and the priorities for the public domain.



HEALTH "PHYSICAL BARRIERS OR HEAVY TRAFFIC CAN MAKE STREETS DIFFICULT TO CROSS. THIS CAN DISRUPT SOCIAL NETWORKS AND LEAD TO SOCIAL ISOLATION. PEOPLE WITH WEAK SOCIAL AND COMMUNITY TIES HAVE WORSE HEALTH OUTCOMES"

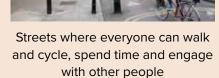
KEY BENEFITS

APPEALING STREETS



More welcoming, pleasant and attractive streets

HEALTHY LIVING



INCLUSIVE



Safer for pedestrians, cyclists and motorists

ACTIVE TRAVEL

"PEOPLE ARE MORE LIKELY TO WALK OR CYCLE IN AREAS WHERE THEY FEEL RELAXED AND WHICH HAVE OTHER PEOPLE IN AND PLEASANT AND SCENIC ELEMENTS SUCH AS TREES, LANDSCAPING, PUBLIC ART, ATTRACTIVE GARDENS AND SHOP FRONTAGES'

"Streets must be welcoming places

for everyone to walk, spend time and engage with other people.

This is necessary to keep us all

healthy through physical activity

and social interaction"

- Healthy Streets

FAIRNESS

"OLDER PEOPLE, PEOPLE WITH INJURIES AND MOBILITY IMPAIRMENTS AND PEOPLE ACCOMPANYING YOUNG CHILDREN ALL RELY ON PLACES TO STOP TO BE ABLE TO BREAK UP LONGER WALKS OR CYCLE RIDES'

PRIORITIES



Pedestrian from all walks of life



Easy to cross





and rest



Not too noisy



People choose to walk and cycle



relaxed



and do



TO DELIVER

- Guide to Healthy Streets Indicators - A qualitative assessment tool summarising the essential aspects of the 10 Healthy Streets Indicators by using questions as prompts
- Healthy Streets Check for Designers (HSCD) A technical assessment of the street layout based on 31 quantitative metrics mapped to the 10 Healthy Streets Indicators. The output is a Healthy Street Check Score (0-100).
- Healthy Streets Survey On-street survey in which Londoners are asked to rate the street they are standing on against eight* of the 10 Healthy Streets Indicators.
- Healthy Streets Experience Score (0-10) and a Healthy Streets Expectation Score (0-10) based on survey's outputs

FRAMEWORK FOCUS

PEOPLE + HEALTH REDUCING INEQUALITIES **WALKING + CYCLING**







BETTER PLACED

Good design is a phrase that encapsulates the aspirations of Better Placed including its vision for NSW, its definition of good process, and its outline of objectives for the built environment.

Better Placed is an integrated design policy for the built environment in NSW that considers an approach to ensure good design delivers architecture, public places and environments will be places people want to inhabit now and those we make for the future.

Better Placed provides a framework to support and develop tools for better design outcomes through locally based policies and initiatives.

Better Placed proposes design thinking to offer a way of finding opportunities and resolving project problems; a creative process seeking answers through collaboration and a synthesis of multiple inputs.



Creates useable, user-friendly, enjoyable and attractive places and spaces Economic, quality of life, public benefit, community impact, social and environmental factors Health, Climate resilience, changing lifestyles and demographics, Infrastructure and urban renewal



PRIORITIES



Better Fit contextual, local and of its place



Better Performance sustainable, adaptable and durable



Better Community inclusive, connected and diverse



Better for People safe, comfortable and liveable



Better Working functional, efficient and fit for purpose



creating and adding value



Better Look and Feel engaging, inviting and attractive

TO DELIVER

- Seven distinct objectives have been created to define the key considerations in the design of the built environment.
- It is helpful to consider, discuss and assess design proposals and outcomes through these series of distinct yet interrelated lenses.

FRAMEWORK FOCUS

CREATING BETTER PLACES

ENHANCING DESIGN QUALITY

IMPORTANCE OF DESIGN

"Advocates the importance of design

for better places, spaces and outcomes

that align with the key challenges

and direction for NSW: Health,

Climate resilience, changing lifestyles

and demographics,

Infrastructure and urban renewal"

- Better Placed

MOVEMENT & PLACE

This guide is for practitioners involved in the planning, design, delivery, and operation of our transport networks and the areas around them.

It seeks to change some established working practices and standards to produce more consistent, higher quality outcomes, and asks professionals to think differently about their role in creating successful place. The role of the guide is to provide a common structure for place-based transport and city and town planning across NSW, and to support built environment practitioners by explaining how to apply this approach to projects and plans.

KEY BENEFITS

CHARACTER AND FORM



Human scale, distinct



Transport choice, reliable transport, equity



AMENITY AND USE

Link to nature

GREEN AND BLUE



Low risk, comfortable

PRIORITIES



Create Healthy Environments



Integrate Public space and land uses



Respond to context



Create resilient communities



Achieve equity through collaboration



Balance movement



Make safer environments



Improve the amenity of places

efficiently

development



Support the needs of all users



Support the economy by enabling the movement of goods

TO DELIVER

- A six-step process of collaboration established as the means of taking a Movement and Place Approach.
- A new method for understanding place through "form, activity and meaning" and movement in its relationship through, and within places.
- Performance indicators defined for all projects to report against.
- Classification of street environments.

FRAMEWORK FOCUS

ACKNOWLEDGE STREETS
AS PUBLIC SPACE

ALIGNING MOVEMENT FUNCTIONS WITH PLACES

"in broadening our thinking about movement to both mobility and access, we can promote the right mode for each trip purpose, and plan places that serve local areas and minimise the need to travel long distances."

- Aligning Movement and Place,

GANSW



COMPLETE STREETS

A city's greatest civic space is it's streets.

A Complete Streets approach considers these spaces holistically, across all disciplines, to develop an over arching Complete Streets Framework for the city centre, as well as specific Complete Street designs for each street. The end result is a better place that benefits everyone.

"Complete Streets are streets for everyone. They are designed and operated to enable safe access for all users. Pedestrians, bicyclists, motorists, and public transportation users of all ages and abilities are able to safely move along and across a Complete Street. Complete Streets make it easy to cross the street, walk to shops, a bicycle to work. They allow buses to run on time and make it safe for people to walk to and from train stations."-Complete Streets Coalition

CONSIDERS
DESIGNIGN FOR ALL
FUNCTIONS
PLAN FOR STAYING, MOVING,
SOCIALISING, EXPLORING, ETC

"Designed to be safe and

comfortable for all travelers,

complete streets are

transforming transportation

and improving communities'

Complete Streets

CONSIDERS ALL USERS NEEDS OF ALL AGES, BACKGROUNDS AND ABILITIES

Y DENEFIIS

SLOWER, SAFER STREETS



Safer for pedestrians, cyclists and motorists

BETTER ACCESS



Better access and wayfinding to key destinations and parking

MORE ATTRACTIVE



High quality footpaths, furniture and landscaping throughout the CBD



pedestrian

cyclist

TO DELIVER

geometries

Rebalancing street designs

through recommended street

Application of different street typologies that demonstrate

various principles of Complete Streets, for

PRIORITIES

CONSIDERS ALL MODES

INTEGRATES ALL ACTIVE, PUBLIC + PRIVATE TRANSPORT OPTIONS

highest priority

FRAMEWORK FOCUS

USER + TRANSPORT **MOBILITY FOCUSED MODE HEIRARCHY**





CITY FOR PEOPLE

Cities for People is an approach based on the value of human scale, mixed neighbourhoods, public spaces, adaptability and resilience.

The concept of putting people first, looking at three priorities:

- Life Good designs deliver a level of mixed use, with places that accommodate a wider range of different activities, functions, spaces, people building typologies, dimensions, tenures and a range of affordability
- Space Public spaces are the drivers of social interactions, local economy, connectivity, mobility and a creation of the culture and memory of a place
- Buildings Care is given to specifics, small details in scale and detailing of buildings, active ground floors, edge zones, number of households per stair, and number of doors to a street, as well as the overall massing and density of developments.

All of these are important for creating a human scale or a sense of community.

BIOLOGICAL BASIS FOR ACTIVITIES,

BEHAVIOUR AND COMMUNICATION IN CITY SPACE"



- history, mobility, walkability,

connections & climate



Quality of existing buildings on site and in the surroundings edges, facades, lighting, heritage, functions, density

PRIORITIES



Life More than mixed use



Space Public spaces at



Buildings Consideration for the human scale

TO DELIVER

- Consider the three priorities; Life, Space, Buildings as part of the design process, both from a 'discovery' stage of understanding place, through to envisioning and design implementation.
- Within each priority, define a shared vision for the site and its public spaces – what is the identity, functions, uses and connections to the surroundings.
- Develop a strategic framework for public spaces, their layout, connections, character, activities, microclimate, phasing, street hierarchy, sustainability and accessibility

FRAMEWORK FOCUS

HUMAN SCALE MIXED NEIGHBOURHOODS PUBLIC SPACES **ADAPTABILITY &** RESILIENCE

"Cities are the places

where people meet to exchange ideas, trade or

simply relax and enjoy themselves.

A city's public domain

- it's streets, squares, and parks
- is the stage and catalyst for these activities"
- Cities for People





SOFT CITY

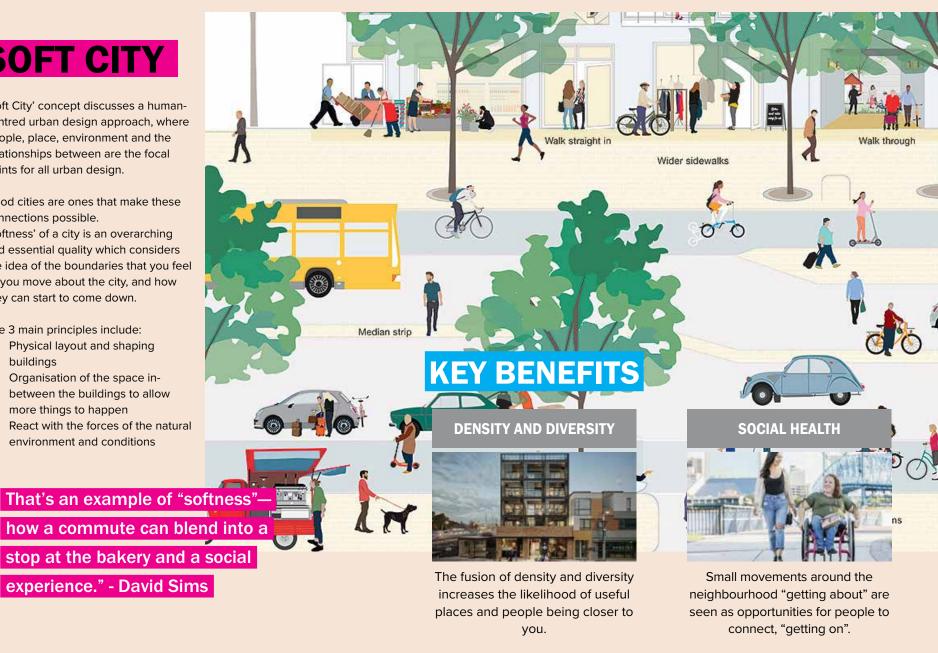
'Soft City' concept discusses a humancentred urban design approach, where people, place, environment and the relationships between are the focal points for all urban design.

Good cities are ones that make these connections possible.

'Softness' of a city is an overarching and essential quality which considers the idea of the boundaries that you feel as you move about the city, and how they can start to come down.

The 3 main principles include:

- 1. Physical layout and shaping buildings
- 2. Organisation of the space inbetween the buildings to allow more things to happen
- 3. React with the forces of the natural environment and conditions





Finding simple solutions to moderate the climate for people to spend more time outdoors comfortably.

PRIORITIES





Diversity of **Built Form**

Diversity of Outdoor Spaces



Human Scale

Walkability











Micro-climate

NEIGHBOURHOOD IS NOT A PLACE

"IT'S A STATE OF MIND"

TO DELIVER

- Design for movement In a congested and segregated world urban mobility is also about social mobility. The idea that getting about the city connects you not only to your destination, but also to places you pass and the people you meet on the way. Healthy Streets Experience Score (0-10) and a Healthy Streets Expectation Score (0-10) based on survey's outputs.
- Layer life Functional, social and economic diversity can be accommodated in one building, and even more can be accommodated in one block, with the pattern repeated.
- Design with weather inmind - Requiring places to be sensitive to change and having a respect for nature.

FRAMEWORK FOCUS

FLUID MOVEMENT

AND COMFORT

HUMAN DIMENSION OF

DENSITY

DIVERSITY OF

BUILDING TYPES

THOUGHTFUL DESIGN



CULTURE, VALUE & PLACE

The Culture, value and place report provides research on the ability of culture to be understood and utilised for the development of a successful city region.

The report delineates the relationships between culture, place, and value using global city case studies, and addresses how cultural investment can contribute to place-making, bridging social barriers, building shared identities and creating economically successful places.

"A mix of cultural services and infrastructures also **KEY BENEFITS** make places more vibrant and can enhance the quality of life of citizens who live and work there."

EDUCATION AND KNOWLEDGE



Access to culture is linked to improved learning, education and achievement

HEALTH AND WELLBEING



Art and culture's effect on well-being

IDENTITY AND BELONGING

Culture's role in

establishing shared

identities



CREATIVITY AND

Culture is essential to the innovationled post-industrial economy

ECONOMIC DEVELOPMENT



Cultural activity is a driver of job creation

TOURISM



growing

Cultural tourism is Culture underpins the quality/identity of a place

PLACEMAKING

SUSTAINABILITY



sustainability

Culture helps strengthen environmental

POWER

Culture reinforces soft power of countries

Supporting Indigenous

people through

culture

PRIORITIES



Variety of Cultural Attractions

Cultural

Information

Exchange.

Access and

Opportunity

Reputation and

Brand



Cultural Attendance and Attraction



Enabling Environment for Demographic Diversity Culture and Creativity



Cultural Production and Creative Economy

and Cohesion



TO DELIVER

- Apply 8 dimensions of culture, including:
 - Variety of Cultural Attractions
 - **Enabling Environment for Culture and Creativity**
 - Information Exchange, Access and Opportunity
 - Cultural Production and Creative Economy
 - Cultural Reputation and Brand
 - Cultural Integration and Cohesion
- Consider investing in cultural resources to foster a sense of belonging in residents and promote the unique identity of a place.
- Consider investing in the fostering of cultural districts by collocating cultural institutions (cultural clustering).
- Leverage on cultural assets to establish a competitive advantage and sense of authenticity and distinctiveness.
- Develop art and cultural interventions in the public realm (e.g. participatory public art) to promote the integration of new migrants, be a platform for inter-cultural dialogue and a way to celebrate local diversity.

FRAMEWORK FOCUS

CULTURE + ARTS

LINKS BETWEEN

CULTURE, PLACE & VALUE

CULTURE + POLICY

GLOBAL CASE STUDIES

VALUE OF CULTURE IN PUBLIC SPACE

"AT THE UNESCO HABITAT III THEMATIC MEETING ON PUBLIC SPACES IN 2016, DELEGATES AGREED THAT CULTURE PROMOTES BETTER ACCESS TO MARKETS, PUBLIC SERVICES, JOBS AND INFORMATION, AS WELL AS A DEEPER CITIZEN CULTURE, IN BOTH DEVELOPED AND DEVELOPING COUNTRIES.



Appendix 5 Stakeholder Engagement

introduction

Consulted stakeholders were classified under three groups:

Focus/local

- Pasquale Carbone E.O.I.
- Tony Polvere E.O.I., Director, PPD Planning Consultants
- Celeste Martin E.O.I., Associate Director, Urbis
- Carmel Aiello Coordinator, Fairfield City Museum and Gallery

Community reference group

- Angela Hayes, Peter Simonis and Paul Desini
 Board Members, Cumberland Business
 Chamber
- Victoria Calderan Principal, Yennora Public School
- Kylie Mackie Strong Families Strong Communities Manager, Woodville Alliance
- Pauline David Fairfield resident and disability advocate, Diversity and Disability Alliance
- Jasmina Bajraktarevic (Community Services Coordinator) and Gary Cachia (Community Development Worker) – STARTTS
- Jane Stratton Chief Executive Officer, Think+DO Tank Foundation
- David Smith Principal, Fairfield Public School

Strategic

- Sean Ly Community Project Officer, Youth Advisory Committee
- Robert Stark Principal Planner, Land and Housing Corporation
- Andrea Lim Cultural Planning Officer

Relevant findings are included below.

ANGELA HAYES, PETER SIMONIS AND PAUL DESINI – BOARD MEMBERS, CUMBERLAND BUSINESS Chamber

How do business owners and employees/workers use public space in the Fairfield LGA?

- Employees use of public space currently focuses solely around getting to and from work
- There is a complete lack of public space for these people.
- Opportunity to improve/build upon the active transport connection from Smithfield to Fairfield along creek corridor.
- Opportunity to reference grape-growing history of area near creek, as well as past use as a local swimming spot.
- Opportunity to mimic/build upon success of the walk from Kissing Point Wharf to Parramatta.
 It features a walkway and cycleway built over marshes through the industrial precinct.
- People would like more indoor sports clubs rather than pubs, particularly since people are becoming more health conscious. People are hanging around after work to avoid the traffic and would go and do sports in a group while they waited.
- Opportunity to use creek area for active travel routes.
- Opportunity to mimic success of the night markets along Parramatta River and the foreshore walk.
- People feel they cannot go for short walks in Fairfield, complaining that it is too trafficdominated and industrial. They relocate to the city as its more walkable.
- There are many underutilised green spaces.

PASQUALE CARBONE, DEVELOPER

How do people use public space in the Fairfield LGA?

• A lot of big stores have moved to industrial area

SEAN LY - YOUTH ADVISORY COMMITTEE

How do young people use public space in the Fairfield LGA?

- Feedback received from YAC FB group from a Year 12 girl saying that the library for her is an important public space, particularly for her studies. However, it is often not quiet enough.
- Parks are popular amongst young people
- Basketball in general seems to be a popular activity for youth in Fairfield
- The Youth Off the Streets group seeks to use spaces that are already being used by young people
- The Fairfield Youth Centre is used a lot the basketball half court is even used at night.
- Shopping centres are key public spaces used by young people
- Cycling is an activity carried out in public spaces which is popular amongst young people.
- Young kids feel free to loiter in parks whereas they often feel unwanted lingering on the streets, outside shops or within shopping malls.

TONY POLVERE - E.O.I., DIRECTOR, PPD PLANNING CONSULT

How do people use public space in the Fairfield LGA?

- Food and beverage outlets benefit from having adjoining public spaces from which activity can spill out
- He is interested in connecting his propety located in Fairfield to the train station and ameliorating the streetscape along this route.
- There is underutilised dead space across the road from his development.
- Use key anchors to draw people through main connective routes.
- Plazas where to sit and interact that are more than just seating, like chess and water play for children and things that would suit the demographic.
- Fairfield town centre streetscape: uninteresting, dog's breakfast.
- Streetscape is criticized, missing nice atmosphere.

VICTORIA CALDERAN - YENNORA PUBLIC SCHOOL

How do the school and school children use/interact with public space in Fairfield?

- Some children get to school via train.
- Some children ride their bike to school on the footpaths.
- They like to ride their bikes on the streets and in quiet residential streets

The school uses the museum at Fairfield.
 WOODVILLE ALLIANCE

How does your organisation/residents use public space in the Fairfield LGA?

- Most clients walk to the organisation's building.
 Some arrive in cars ie. Either in emergency vehicles or the car of family or friends.
- They host an end-of-year celebration 200 people attended last year at the Senior Citizens' Centre.
- · The NAIDOC celebration utilises public space.
- There are big families in high density living environments therefore they need open space. (A large percentage are Arabic).
- Good examples of Public Spaces include Bicentennial Park, a sensory garden for disabled people, and Casula Powerhouse play area along Liverpool Rd.

CARMEL AIELLO – COORDINATOR, FAIRFIELD CITY MUSEUM AND GALLERY

How do people use public space in the Fairfield LGA?

- Museum events are mostly held within museum grounds however, they have done programs in Crescent Plaza. There have been problems with putting on events outside of the museum, including having access to technology, getting digital material up on screen and Wi-Fi issues.
- Develop an "eat street" along The Horsely Drive main street with more al fresco dining, like Canley Heights
- Integrate public art
- Take inspiration from Greenacre's changebased beautification methods
- Streetscape would benefit from the addition of colour
- Create an area where people can access free technology

- Take inspiration from the Parramatta Lanes project
- Tired streetscape (The Horsely Drive); planter boxes along The Horsely Drive main street are not working
- Park near Fairfield train station is very underutilised but could be more family friendly

ROBERT STARK – LAND AND HOUSING CORPORATION

How do social housing residents use/interact with public space in Fairfield?

- Social housing development has similar private to public open space ratios, as well as setback requirements
- There has been a demographic shift towards an older cohort and people with access issues living in social housing
- Typically, in the past, residents of social housing were the working poor
- Now, social housing is for people who can't work such as the elderly and disable people
- People tend to apply for housing that is close to their family – ageing in place initiatives
- Residents tend to spend a lot of their time at home therefore, the provision of public local green space and shading is very important
- Parking provision has same requirements to standard development
- Controls encourage LAHC to build near transit and near town centre, therefore there is the potential for improved connectivity
- Each development is bespoke designed
- Take inspiration from their site in Riverwood featuring community gardens. Council leased the land to the developers, and they built the garden. Each cultural group
- specializes in certain types of fruit and vegetables and then they trade with each other.

ANDREA LIM - CULTURAL PLANNING OFFICER

How do people use public space in the Fairfield LGA?

- The cultural development team put on minor activations in Crescent Plaza
- They ran a project funded by the live music office that included putting on activations around the town centre
- They worked with the restaurants in the area, assisted them with musicians, had musicians in or outside their premises across 7 or 8 restaurants/venues, including Lost in books
- Places for activations are chosen because they are accessible and/or near transport where people already are – the activations should go to the people (not the other way around)
- The Crescent is used for crime prevention strategies
- The Flame Festival was a night-time economy trial with a major link with the arts
- On the last Friday of every month, they use Crescent Plaza for a film night: Flicker Fridays
- During this event, there was a group of people that were observed standing on the periphery and causing some issues. One night, they brought in the hip-hop artist, L-Fresh. This figure resonated with this group of people and their behaviour towards the event became more positive.
- The LED screen in Crescent Plaza is being utilised now to showcase Fairfield's artistic strength in filmmaking and digital art
- They also hosted an intergenerational all women film event and 66% of people at the event went to get food after the film
- Constraints regarding Crescent Plaza: There are people living right next to Crescent Plaza so

- staff need to be constantly mindful of the music volume. For this reason, the last one had to end at 8pm. Also, the back area had to be fenced off for security purposes because there was not enough staff to surveil both ends of the square.
- There is an overall stigma around crime in Fairfield. Although crime has dropped recently, there are still some preconceptions
- There are a lot of underutilised spaces
- BMX bike-riding is popular amongst the youth

DAVID SMITH – PRINCIPAL, FAIRFIELD PUBLIC SCHOOL

How do the school and school children use/ interact with public space in Fairfield?

- Majority of children walk to school. No more than 20 out of the 600 children that attend the school catch the bus.
- They walk to the soccer ovals (Ultimate Soccer) via the back gate and pedestrian bridge
- After-school sport is generally done on school grounds
- For athletics carnivals they walk down to the area opposite the pool (Makepeace Oval). The route they generally take is through Smart St and over the train line – there has never been any major issues.
- They also use the leisure centre for swimming
- Adams park is used very well by Canley Vale Public School
- The SACC program runs excursions with families. They take families to the Fairfield adventure park and on picnics and show them how to get there.
- The school grounds are utilised by other community groups outside of school hours, such as playgroups, a group for young mums, parenting groups, and language development

- groups. They hold at least 12 programs over a 12-month period. There are other participating venues including one at Cabramatta, Canley vale, Bonnyrigg and Lansvale Public School
- The shopping centres (Fairfield Forum and Neeta City) are used as a platform for school exhibitions, dance shows and choir performances. E.g. They once held an art exhibition in conjunction with Fairfield High School

JANE STRATTON & AFAF - LOST IN BOOKS

How do people use public space in the Fairfield LGA?

- People are coming into Fairfield from Liverpool, Bankstown area and Granville to go to Lost in Books
- Local people who are unemployed come to volunteer in order to experience the work force, improve their English and to feel like they can contribute.
- Wayfinding could be improved and be available in different languages
- There is a general lack of confidence in people using public transport - the public transport often doesn't go where they want to go, they don't feel safe, and it can be financially challenging to use public transport services.
- There is a big sector of community that is more comfortable in a community space rather than a council space
- WiFi is needed access across LGA and should give confidence to people to walk around at night, getting around safely, communicating with people – safety is a big issues
- Opportunity to provide a sheltered, wellresourced, big public hall that is flexible and that you don't have to pay to be there:

- a space like the Maritime Youth Centre in Copenhagen with a human-centred design approach. It features an amphitheatre with other elements like artist studios, multi-use space, a play area, theatre and storage space.
- Council regulation is a barrier. While they would like to do activations, there is too much work involved to activate the space
- Hypermasculine domain where women feel unwelcomed - It is hard to find a place to sit down, breast feed and have a drink.
- There is not much for kids to do

JASMINA B AND GARY CACHIA - STARTTS

How does your organisation use/interact with public space in the Fairfield LGA?

- Every Friday night, STARTTS uses the Fairfield Youth Centre - people generally walk to this event
- Opportunity to provide some large halls such as an indoor venue to hold an awards ceremony with a stage. Currently, STARTTS must resort to using wedding reception halls and these private companies will not allow them to bring their own food.
- CORE's car park could be utilised for a public space as there is sufficient land available, it is near other services, it is close to where people live, and it is state government owned land
- The pool in Fairfield is used by many families in the summer
- STARTTS have used the square near the Fairfield Forum before. Although it has high foot traffic, it is far from where people congregate.
- Opportunity to close Ware St to become a pedestrianised public plaza
- The Navitas English school and train station are

- important destinations for newcomers. There is the potential to upgrade the walking route from Yennora to the English school for a safer commute.
- Generally, the smaller parks are lacking amenity
- Cost of hiring park and insurance is a hindrance to some groups
- Public transport is infrequent
- The sun is "too strong" in summer
- Small organizations cannot afford the long-term leases that exist in Fairfield

PAULINE DAVID - FAIRFIELD RESIDENT

How do you and other disabled people use/ interact with public space in the Fairfield LGA?

- People with a disability are constrained to get around in a taxi to complete daily activities
- St Joseph's medical centre on Ware St has no pickup or drop off area for wheelchair access
- Most intersections are problematic, as well as raised lips on bitumen
- Going through unattractive back entrances to access restaurants and other services deter disabled people from socialising and partaking in city life
- Arm rests on seats prohibit people in wheelchairs to sit next to them
- Street/park furniture is generally not the right height for people in wheelchairs
- At Fairfield Railway Station, people must get to their cab via the road as there is no taxi ring with disabled access
- Opportunity to utilise a similar pavement material to that which is on the Neeta City side of the street. It is considered an ideal pavement for wheelchair mobility as it is smooth and unified.

- Pauline uses Fairfield forum, the station and the shops
- The Fairfield Youth Centre is used. There is plenty of parking and in terms of accessibility it is very good. DDA books it for events.
- General lack of lighting in the city centre
- Trees have lifted the bitumen in some places
- Tables on concrete blocks are generally hard to access due to their being slightly raised from the ground
- There is too great a focus on Assyrian culture in the public realm

CELESTE MARTIN - ASSOCIATE DIRECTOR, URBIS

What are the potential opportunity sites and how can they contribute to the public domain within the Fairfield LGA?

Potential opportunity sites is 29 Barbara St, Fairfield. Considerations include:

- Potential through site link between Hamilton Rd to Harris St
- Interface with regard to vehicles
- Share loading and potential rear access

Other opportunities in Fairfield include:

- Potential to tie in open space provision with Neeta City redevelopment
- Providing urban canopy
- Improving pedestrian environment, being more pedestrian centric with less cars
- Take inspiration from Liverpool, which has similar cultural clusters, such as providing amenity for the community like chessboards, ping pong
- Understanding cultural overlays and what people love doing
- Potentially closing and pedestrianizing roads and reorientating traffic to provide public space.

Appendix 6 Performance Matrix

MATRIX - STRATEGIES AND PUBLIC DOMAIN HIERARCHY

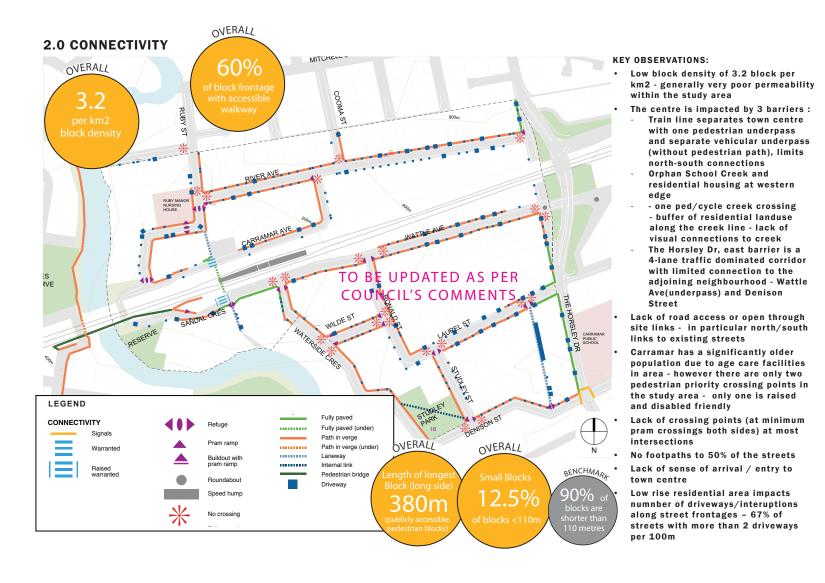
		1. STREET ORDER	2. THE ROAD DIET	3. PEDESTRIAN THROUGH ZONE	4. CONNECTIVITY AND FLOW	5. AT THE KERB	6. STREET LIFE	7. GREENING THE CENTRES	8. COOL STREETS AND SPACES	9. LOVED PUBLIC SPACES	10. CULTURE AND COMMUNITY
HIERARCHY		Apply a hierarchy of street function across vehicular. pedestrian, cycle and transport modes	Applying minimum lane width and swept path requirements	Provide for comfortable pedestrian through movement zone appropriate to street function	Reduce or eliminate barriers and interruptions to pedestrian flow applicable to street order	Maximise the flexibility of kerb side use and its benefits to pedestrian amenity	Enable a range of activities to be undertaken that contribute to street and community life	Increase the amount of green canopy and ground plane within the centres	Maximise the capacity of streets and public spaces to provide comfortable inhabitable spaces during summer	Ensuring public spaces can become loved by optimising their location, providing appropriate facilities, and enabling diverse use	Facilitate a "stage" for community and cultural expression through streets and public spaces
MAJOR ROADS		regional traffic role regional transport role	traffic role takes precedence	pedestrian path between key points / to serve uses generally 1.5m minimum pedestrian path	minimise driveways for interruption to traffic flow	clearways where required kerb side parking outside peak hour underground power where possible tree planting in verge	NA	regional green link 70% tree canopy coverage tree planting within road verge	provide shade to pedestrian links provide shade / buffer to west facing facades increase biomass to reduce ambient heat of corridors	provide visually interesting vehicular experience ensure pedestrian comfort to paths	provide for vehicular based cultural expression as a thresold or repetitive experience
COLLECTOR ROADS	AVENUES	secondary district traffic role primary district cycle role supporting transport role supporting pedestrian role	minimise lane widths and swept paths minimise / eliminate heavy vehicle traffic Integrate cycle facility	continuous pedestrian paths both sides generally 1.8m minimum pedestrian paths to cater for dual wheelchair	minimise driveways cycle crossings of intersecting streets	kerb side parking underground power tree planting in verge tree planting in parking lane	NA	district green link 90% tree canopy coverage tree planting within road verge or kerbside parking lane undergrounded power	50% summer tree canopy shade provide shade / buffer to west facing facades create "cool nodes" with optimum (deep) shade	provide visually interesting experience for all users ensure continuous pedestrian and cyclist comfort to paths	provide for wayfinding embedding cultural expression
	CORRIDORS	primary district traffic role district transport role secondary district cycle role	traffic role takes precedence Integrate cycle facility where required	generally 1.8m minimum pedestrian paths to cater for dual wheelchair	minimise driveways	clearways where required underground power where possible tree planting in verge	NA	district green link 70% tree canopy coverage tree planting within road verge	50% summer tree canopy shade create "cool nodes" with optimum (deep) shade	provide visually interesting vehicular experience ensure pedestrian and cyclist comfort	provide for vehicular based cultural expression as a thresold or repetitive experience
HIGH STREETS	CORE	low speed traffic role primary pedestrian role supporting cycle role balance of on street parking and footway widening no buses or large service vehicles	minimise lane widths and swept paths with focus on enhancing the quality of the pedestrian environ- ment	2.4m minimum continuous through zone	no driveways raised crossing of inter- secting streets pedestrian priority (linemarked) crossings in street and at intersecti- ing streets	underground power widen footway where possible to no stand- ing areas tree planting in widened footways tree planting in park- ing lane	provide for on street trad- ing or at minimum active frontage as continuous character encourage busi- nesses that contribute to street life encourage night trading	local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green% surface area target	80% summer tree canopy shade including awning cover continuous building awnings create "cool nodes" with optimum (deep) shade consider evapo-transpirative cooling	provide a pedestrian heart to the centre provide a range of reasons to be in street create a safe and vibrant after hours place	facilitate modal use of street for events integrated with other spaces provide for wayfinding and permanent / temporary arts /cultural expression
	MIXED	low speed traffic role primary pedestrian role primary cycle role balance of on street parking and footway widening limited buses or large service vehicles	minimise lane widths and swept paths in lane bus stops preferred where required Integrate cycle facility where required	2.4m minimum continuous through zone	minimise driveways pedestrian priority or signalised crossing of intersecting streets	kerbside parking underground power tree planting in verge tree planting in parking lane	provide for on street trading to selected zones / nodes encourage active frontage as continuous character	local green link 70% tree canopy coverage tree planting within kerbside parking lane or footway build outs strong ground plane presence of green% surface area target	80% summer tree canopy shade including awning cove continuous building awnings create 'cool nodes' with optimum (deep) shade consider evapo-transpirative cooling	support the pedestrian heart to the centre provide a range of reasons to be in street create a safe and vibrant after hours place	provide for wayfinding and permanent / temporary arts /cultural expression
	CIRCULA- TION	low speed traffic role supporting pedestrian role supporting cycle role on street parking with selective footway widening buses and large service vehicle access	minimise lane widths and swept paths while catering for necessary vehicle types (buses and large service vehicle) in lane bus stops Integrate cycle facility where required	minimum 1.8m pedestrian through zones to cater for dual wheelchair movement - 2.4m preferred	provision of driveways in preference to Core and Mixed High Streets driveways integrated with street trees and lighting	clearways where required kerbside parking underground power where possible tree planting in verge tree planting in parking lane where possible	focus on comfortable pedestrian movement to Core and Mixed High Streets and other destinations	local green link 70% tree canopy coverage tree planting within footway build outs or verge footway strong ground plane presence of green% surface area target	80% summer tree canopy shade including awning cover semi - continuous building awnings focussed on pedestrian routes create "cool nodes" with optimum (deep) shade	connect to the pedestrian heart to the centre create a safe and comfortable after hours place of movement	provide for wayfinding and permanent / temporary arts /cultural expression
	SHARED ZONE	lowest speed traffic role shared vehicular pedestrian and cycle roles small-large service vehicles	raise road and elimi- nate kerbs to create shared space	NA	raised to footpath level pedestrian and cycle movement within car- riageway driveways as required for service role	planting and other street elements define vehicular movement	provides comfortable pedestrian priority move- ment to Core and Mixed High Streets and other destinations facilitates additional op- portunities for seating and landscape	green node % tree canopy coverage strong ground plane presence of green% surface area target	80% summer tree canopy create "cool nodes" with optimum (deep) shade	support the pedestrian heart to the centre provide a range of reasons to be in street create a safe and vibrant after hours place	facilitate modal use of street for events integrated with other spaces
LANEWAYS	SHARED LANE	lowest speed traffic role shared vehicular pedestrian and cycle provisions pedestrian and cycle inkage role small-large service vehicles	raise road and elimi- nate kerbs to create shared space	NA NA	raised to footpath level pedestrian and cycle movement within car- riageway driveways as required for service role	planting and other street elements define vehicular movement	provides comfortable pedestrian priority move- ment to Core and Mixed High Streets and other destinations provide for permanent or temporary on street trading to selected zones / nodes	green link % tree canopy coverage strong ground plane presence of green% surface area target	35% summer tree canopy shade create "cool nodes" with optimum (deep) shade	support the pedestrian heart to the centre provide a range of reasons to be in street create a safe and vibrant after hours place	provide for wayfinding and permanent / temporary arts /cultural expression
	SERVICE LANE	low speed traffic role small-large service vehicles limited / nil pedestrian linkage role	traffic role takes precedence	NA	provide for pedestrian safety - refuge kerb or zones driveways as required for service role	traffic and service role takes precedence	NA	% tree canopy coverage	NA	NA	NA
LOCAL STREE	т										
SPACES	CENTRE SQUARES / PLAZAS	at focal junctions of movement	NA	key routes through space to provide for 2.4m clear movement zone	pedestrian through access link adjoining streets		maximise active frontages to square (ideally 2) provide for on plaza trading adjoining active frontage encourage busi- nesses that contribute to plaza life	green node % tree canopy coverage strong ground plane presence of green% surface area target	50% summer tree canopy shade Awnings to active frontages create "cool nodes" with optimum (deep) shade Integrate water elements integrate water play consider evapo-transpirative cooling	site at highly visible location site at node of major pedestrian movement site with balance of shade and solar access encourage non retail uses provide pro active programing	facilitate modal use of square for events integrated with other spaces provide for permanent / temporary arts /cultural expression
	CENTRE PARKS	NA	NA	key routes through space to provide for 2.4m clear movement zone	pedestrian through access link adjoining streets		as secondary role to pas- sive recreation - provide small scale trading opportunities	strong green character with emphasis on green permeable surface	50% summer tree canopy shade create "cool nodes" with optimum (deep) shade Integrate water elements Integrate water play consider evapo-transpirative cooling	site with balance of shade and solar access site with good accessibility to other use areas enable range of passive uses	facilitate modal use of park for events integrated with other spaces provide for permanent / temporary arts /cultural expression

MATRIX - PRINCIPLES AND PUBLIC DOMAIN HIERARCHY

		1. PEOPLE PRIORITISED	2. CONSIDERS ALL MODES AND USERS	3. AN ENGAGING EXPERI- ENCE WHERE USERS FEEL SAFE AND RELAXED	4. VALUES PUBLIC LIFE	5. HEALTHY ENVIRON- MENTS FOR PEOPLE TO ENJOY	6. IS FIT FOR PURPOSE	7. CELEBRATES HISTORY, DIVERSITY AND LOCAL DNA	8. ENVIRONMENTALLY PER- FORMING AND RESILIENT
HIGH STREETS	CIRCULATION	pedestrian movement and amenity is high design priority but may vary along street subject to pedestrian movement routes human scale to road verges Links pedestrians to other streets and destinations attractive night character and safety	supporting padestrian movement role in centres in role in centres in important vehicular circulation role around centre and to parking in key business service access role provide through ioading zones) or control to the provide through ioading zones) (40km/m) ehicular circulation (40km/m) en control to preferred bus movement routes in crossing points to key pedestrian routes	semi continuous building awnings to footway related to pedestrian routes provision of trees in optimum locations has high priority tree canopy maximises shade tree canopy maximises shade maximise visual benefit to street (design composition) targeted ground level planting enhances green character and supports WSUD as the control of th	provides routes for comfortable access to Core and Mixed Streets public domain amenity (shade, visual quality and interest, ease of movement) enable easy pedestrian and cycle movement enable easy pedestrian and cycle movement per specific locations or specific locations public domain amenity and management facilitate safe and comfortable night access and targeted seating opportunities near access routes and crossings	pedestrian oriented welcoming character at crossing points safe inclusive and accessible facilities at crossing points and along footway . Limit vehicular speeds (40km/m)* regular maintenance of litter and waste regular maintenance of of andscape maximise landscape coverage as offset to vehicular times . awning and tree canopy cooling	vehicular oriented wayfinding along corridor parelestian and cycle oriented wayfiding along lains and at crossing points provide continuity and accessibility at required crossing points and at driveways along length of route	 public domain design considers varied cultural needs of Fairfield community 	encourages sustainable transport minimises potable water use facilitates water harvesting minimises energy use minimises energy use possible cycled materials where possible of the possible design / fabrication enables future recycling where possible local fabrication where possible encourages recycling through waste management increase foliage to mitigate air pollution
	SHARED ZONE	pedestrian movement and amenity is highest design priority seating in various forms, on street trading, and through movement enliven street attractive night character and safety capacity for street events	shared access between all modes at low speed flokmith) pedestrian priority crossing within shared zone designed to RMS cat 1 shared zone requirements pedestrian priority crossing zone	continuous building awnings adjoining shared zone for shelter and shade provision of trees in optimum locations takes precedence tree canopy integrated with awnings to maximise shade tree canopy positioned to maximise visual benefit to street or consideration of the continuous con	with Core High Streets, the focal street environments supporting street life in the centre public domain amenity (shade, visual quality and interest, ease of movement) encourage ingering in the public domain amenity (as above) encourage on street unding environment of the public domain amenity and management encourage night trading and street activity range of seating opportunities encourage lingering in the public domain public domain supports events	shared access between all modes at low speed (flown/hr) attractive comfortable env'ment for pedestrians and cyclists high level of pedestrian and cycles afely raised platform provides inclusive and accessible facilities regular maintenance of Indies reg	high level of pedestrian and cycle wayfinding high level of vehicular wayfinding provide continuity and accessibility through shared zone with flush pavements address shared zone compliance requirements as per RMS guidelines	public domain design considers varied cultural needs of Fairfield community connections to culture through selected art installations provide interpretive narratives on local themes integrated with wayfinding public domain provides canvas for local arts and culture bodies (temporal displays and events) capacity for street events	encourages sustainable transport minimises potable water use facilitates water harvesting minimises energy use uses recycled materials where possible design / fabrication enables future recycling where possible local fabrication where possible waste management increase foliage to mitigate air pollution
LANEWAYS	SHARED LANE	pedestrian movement and amenity is high design priority maintain business service access role . encourage active frontages	shared access between all modes at low speed f0km) pedestrian priority crossing within shared zone designed to RMS cat 1 shared zone requirements	building awnings at active frontages if practical provision of trees to selected locations where feasible for shade and visual amenity. Tree canopy positioned to maximise visual benefit to street (design composition) largeted ground level planting enhances green character and enhances green character and large vehicle (truck) access / movements street art enlivens road corridor for all users	provides a secondary street environment supporting street life in the centre public domain amenity (shade, visual quality and interest, ease of movement) encourage lingering in the public domain at key locations public domain amenity (as above) encourage targeted on street trading and street activity and management encourage night trading and street activity at key locations range of seating opportunities encourage lingering in the public domain at key locations	shared access between all modes at low speed (florm/m) - attractive comfortable env ment for pedestrians and cyclists - high level of pedestrian and cycles afety - raised platform provides inclusive and accessible facilities - regular maintenance of littler and waste many development of the company of the company of the company development of the company of the co	high level of pedestrian and cycle wayfinding high level of vehicular wayfinding provide continuity and accessibility through shared zone with flush pavements address shared zone compliance requirements as per RMS guidelines	public domain design considers varied cultural needs of Fairfield community connections to culture through selected art installations provide interpretive narratives on local themse integrated with wayfinding public domain provides canvas for local arts and culture bodies (temporal displays and events) capacity for street events	encourages sustainable transport minimises potable water use facilitates water harvesting minimises energy use uses recycled materials where possible design / fabrication enables future recycling where possible fabrication where possible fabrication where possible encourages recycling through waste management increase foliage to mitigate air pollution
	SERVICE LANE	limited pedestrian movement role	key service access role low speed (20km) crossing points to key pedestrian routes	recognised as a primarily vehicular use space focus amenity at crossing points monitor ongoing access role and consider future recategorisation if appropriate or lane is further connected to pedestrian network	where applicable (crossing point on a pedestrian link) public domain supports confortable and safe movement to areas of street life	pedestrian oriented welcoming character at crossing points safe inclusive and accessible facilities at crossing points Limit vehicular speeds (20km/hr) tree canopy cooling	caters for service access requirements signage informs of any vehcile size limitations pedestrian oriented wayfiding at crossing points		minimises potable water use facilitates water harvesting minimises energy use possible possible design / fabrication enables future recycling where possible local fabrication where possible increase foliage to mitigate air pollution
LOCAL STREET		Local pedestrian access role provide important local pedestrian inks / connections pedestrian movement and amenity is a design priority	Local vehicular access and parking role Local cycle access role generally as mixed traffic	encourage local community life to local streets - small parkiets with shade encourage street gardens	encourage street community spirit eg , awards for street parties - awards for front gardens	pedestrian oriented welcoming character at crossing points safe inclusive and accessible facilities at crossing points safe inclusive and accessible facilities at crossing points safe inclusive and accessible facilities along footway Limit vehicular speeds (40km/hr) regular maintenance of landscape tree canopy cooling	pedestrian and cycle wayfinding vehicular wayfinding provide continuity and accessibility at required crossing points and at driveways along length of route	public domain design considers varied cultural needs of Fairfield community • provide interpretive narratives on local themes integrated with wayfinding	minimises potable water use facilitates water harvesting minimises energy use uses recycled materials where possible design /fabrication enables future recycling where possible local fabrication where possible increase foliage to mitigate air pollution
SPACES	CENTRE SOUARES / PLAZAS	a major pedestrian destination a place for gathering capacity for events a place for relaxing attractive night character and safety	pedestrian focussed space cycle stands cycles upport facilities - eg bike hub for maintenance 1 day / week restricted vehicular access - for maintenance only	 provide a balance of structured and tree shade having regard for shadow regime from adjoining development strong green character at ground level provide elements of interest to children - enable creative play cater for youth in design of space and facilities - seating and gathering points, WIFI, small event spaces 	public domain amenity (shade, visual quality and interest, asse of movement) encourage lingering range of seating opportunities encourage lingering integrate provisions for events into design of space integrate provisions for events into design of space or council managed community events encourage and enable community groups to run events facilitate and manage small scape events including buskers etc manage an annual program of events	Attractive comfortable enviment for pedestrians High level of safety inclusive and accessible facilities through space regular maintenance of litter and waste regular maintenance of landscape regular maintenance of landscape maximise landscape coverage and tree canopy for cooling	provide continuity of movement and accessibility through space and related to facilities pedestrian wayfinding facilitates maintenance access	 public domain design considers varied cutural needs of Fairfield community connections to culture through selected art installations provide interpretive narratives on local themes integrated with wayfinding public domain provides canvas for local arts and culture bodies (temporal displays and events) capacity for events 	minimises potable water use facilitates water harvesting minimises energy use facilitates energy generation uses recycled materials where possible design / fabrication enables future recycling where possible local fabrication where possible increase foliage to mitigate air pollution
	CENTRE PARKS	a major pedestrian destination a place for gathering a place for relaxing a thractive night character and safety	pedestrian focussed space cycle stands restricted vehicular access - for maintenance only	provide a balance of structured and tree shade having regard for shadow regime from adjoining development major green character at ground level elements of interest to provide elements of interest provided elements of space and facilities - seating and gathering points, WIFI, small event spaces	public domain amenity (shade, visual quality and interest, ease of movement) encourage lingering integrate provisions for events into design of space if appropriate and sustainable to space and context - facilitate passive low key use by town center residents - including rest, seating and relaxing, and play	Attractive comfortable enviment for pedestrians. High level of safety inclusive and accessible facilities through space regular maintenance of little and waste regular maintenance of landscape maximise landscape coverage and tree carepy for cooling.	provide continuity of movement and accessibility through space and related to facilities pedestrian wayfinding facilitates maintenance access	public domain design considers varied cultural needs of Fairfield community connections to culture through selected art installations provide interpretive narratives on local themes integrated with wayfinding public domain provides canvas for local arts and culture bodies (temporal displays and events) capacity for events	minimises potable water use facilitates water harvesting minimises energy use uses recycled materials where possible facilitates energy generation design /fabrication enables future recycling where possible local fabrication where possible increase foliage to mitigate air pollution

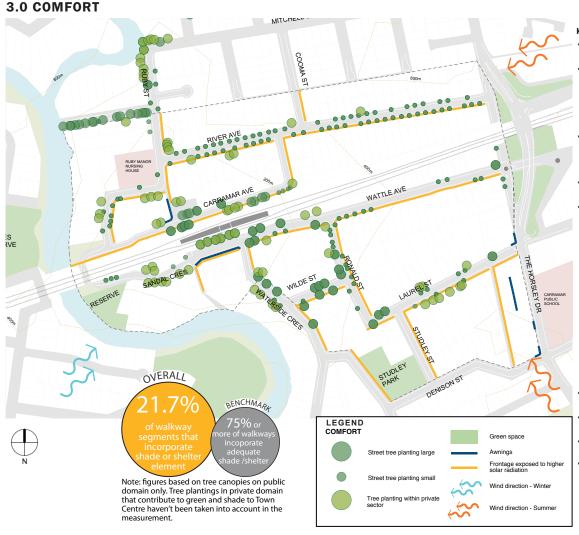
Appendix 7 Audit Mapping

1.0 ACCESSIBILITY LEGEND TO BE UPDATED AS PER **ACCESSIBILITY** Path ≥ 2.4m Path 1.6 - 2.3m COUNCIL'S COMMENTS Path 1.2 - 1.5m Signals Width of On street trading On street trading Width of on street dining On street dining Taxi stand Disabled parking Warranted Raised :S ₹VE Buildout with pram ramp Roundabout Speed hump No crossing OVERALL Pedestrian bridge underpass DENISON ST KEY OBSERVATIONS: Many streets lack continuous footpaths which impacts BENCHMARK OVERALL walkability of streets to town centre and adjacent areas Only 3.8% of streets provide pedestrian through zone of 2.4m 2 Or fewer or greater, these occur: near pedestrian crossing south the station commercial frontages along the west side of Horsley Dr. Pedestrian through zones to fully paved verges (3m verge overall) are generally compromised by street furniture. Majority of footpaths (in verge) are less than 1.5m wide desirable to upgrade to 1.5m (min)-1.8m Missing crossings impact the safe and comfortable accessibility of the centre



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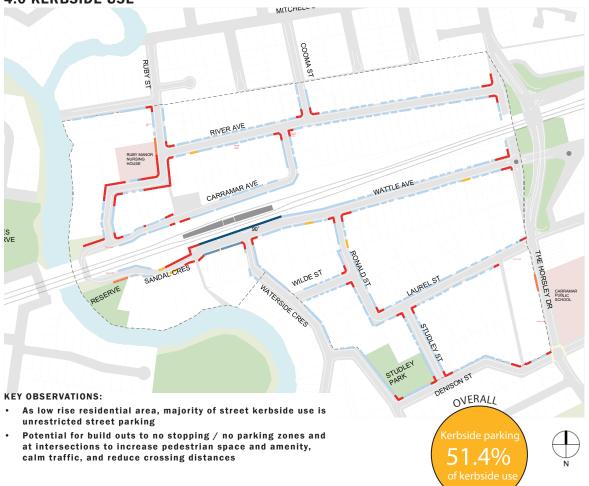
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KEY OBSERVATIONS:

- Only 10.8% of streets with some awning and street tree canopy cover
- Tree plantings within private domain play important role in greening street generally -Attractive tree canopies on Wattle Ave adjacent train station within railway corridor visually important to village character
- Intermittent positioning of street trees along Wattle Ave/ Sandal Cres is still effective for visual greening (if not optimum summer shade)
- Lack of continuity to street tree canopies along local streets
- Natural assets / open space along creek corridor however - underutilized with very limited accessibility:
- Studley Park is "disconnected" from the station/center
- limited access points to Orphan School Creek, property boundaries up to creek boundary
- Reserve(end of Sandal Cres is the only access point to the creek, informal, lacks sense of safety
- Parkes Reserve, Orphan School creek headland, Carrawood Reserve and Oval are significant open space adjoining the study area, limited connections to the centre
- Inbalance of open space between east and west of centre
- No public space / gathering space adjacent town centre/train station
- Noise impacts from rail lines and The Horsley Dr on local residents
- Overhead powerlines impact street tree positions and size of canopy

4.0 KERBSIDE USE



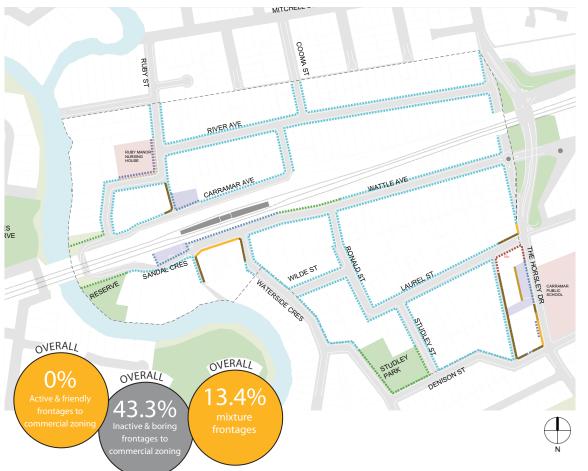
LEGEND KERBSIDE I	USE
30" 45" 90"	Time restricted parking All day parking Angle parking (time restricted) Clear way No stopping Bus zone Council bus zone
	Taxi stand Loading zone Police parking Kiss & drop Shared car parking Mail zone
	Signalised crossing

TIME RESTRICTED PARKING (%)	0.9%
ALL DAY PARKING (%)	48.6%
ANGLE PARKING (%)	2%
CLEARWAY(%)	0%
NO STOPPING(%)	14.1%
BUS ZONE(%)	1.1%
COUNCIL BUS ZONE(%)	1.3%
TAXI STAND(%)	0%
LOADING ZONE(%)	0%
POLICE PARKING(%)	0%
KISS & DROP(%)	0%
SHARED CAR PARKING(%)	0%
MAIL ZONE(%)	0.1%
ON STREET DISABLED PARKING (NO.)	0

NOTE: % based on overall block length within study area

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5.0 STREET LIFE

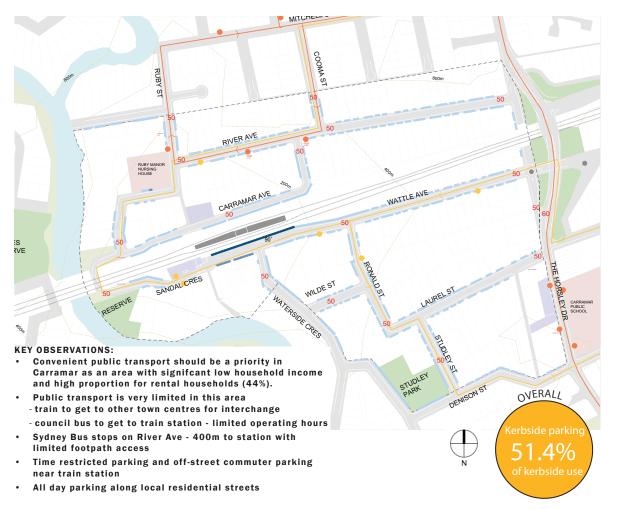




KEY OBSERVATIONS:

- Largely low rise residential area with two small commercial hubs:
 - Station lack of vibrancy due to limited retail frontage and diversity
 - To south-east of centre on western verge of The Horsley Dr - mainly serving passing traffic lacking active/friendly frontage
- Lack of sense of connection / integration between the two hubs
- Lack of sense of arrival
- Heritage items such as train station building and railway bridge could be enhanced as features / landmarks within the centre

6.1 TRAFFIC & PARKING

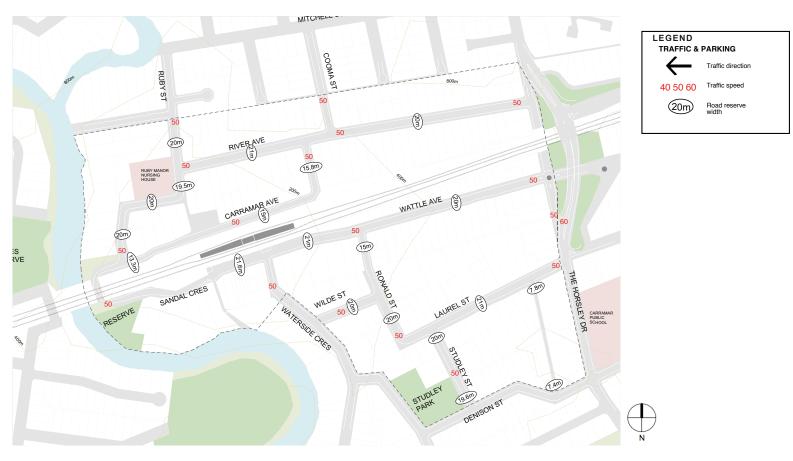


LEGEND TRAFFIC & P.	ARKING
	Bus Route
\leftarrow	Bus route direction
<u>. </u>	Council bus route
\leftarrow	Council bus route direction
	Bus stop
	Council bus stop
40 50 60	Traffic speed
\leftarrow	Traffic direction
	Time restricted parking
	All day parking
30' 45' 90'	Angle parking (time restricted)
	Loading zone
	Off-street public parking
	Off-street private parking

ON STREET PARALLEL PAKRING (TIME RESTRICTED)	12
ON STREET ANGLE PARKING (TIME RESTRICED)	47
ON STREET PARKING (ALL DAY)	636
OFF STREET PUBLIC PARKING (ON GROUND)	84
OFF STREET PUBLIC PAKRING (MULTI-LEVEL)	0
OFF STREET PRIVATE PARKING	69
ON STREET DISABLED PARKING	0
SHARED CAR PARKING	0
TOTAL	848

NOTE: Parking numbers approximated, to be verified

6.2 TRAFFIC - STREET GEOMETRY

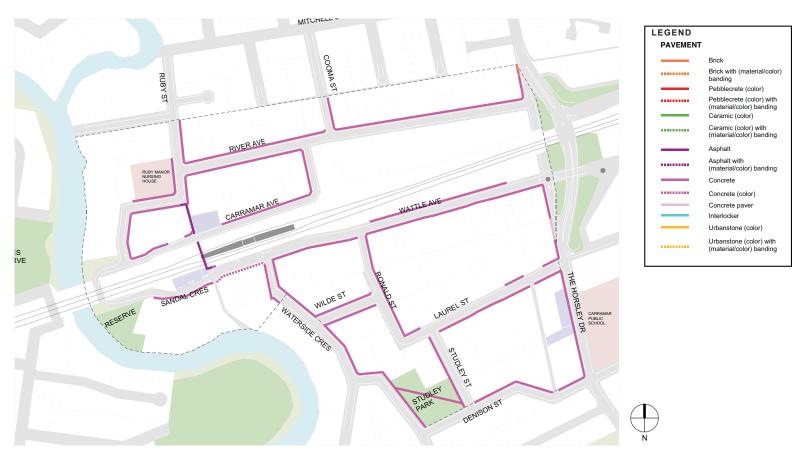


7.1 MATERIALS - STREET LIGHTING

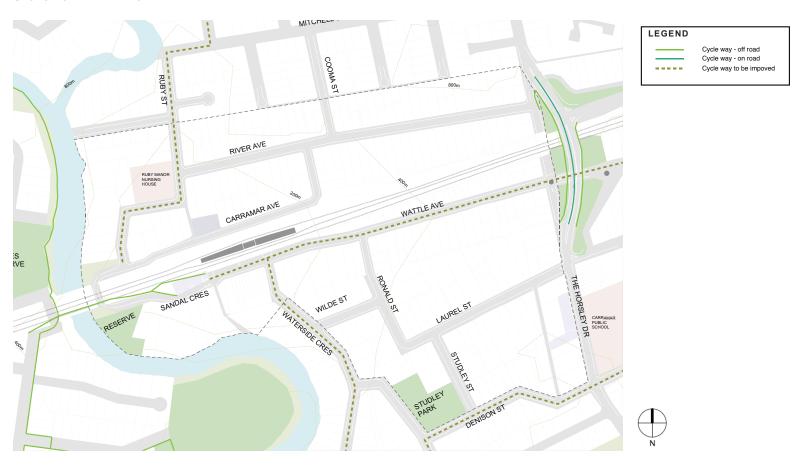


- · There is no pedestrian focus lighting around town centre
- · Lack of sense of safety during night

7.2 MATERIALS - PAVEMENT TYPES



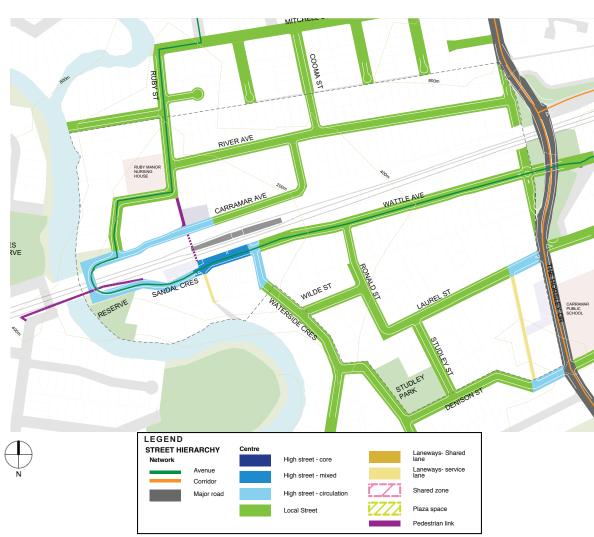
8.0 CYCLE NETWORK



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9.0 STREET HIERARCHY



NETWORK STREETS

AVENUE

- Pedestrian / cycle corridor
- Green link corridor

CORRIDOR

- Transport corridor
- Green link corridor

CENTRE STREETS

HIGH STREET - CORE

- Slow traffic speed <50km
- Regular pedestrian priority crossings
- Minimal driveway interruptions
- Lanes widths minimised
- On street parking
- · No though bus movement

HIGH STREET - MIXED

 Mixed use - traffic/ped & type of frontage activation(retail/resi/commercial/service)

HIGH STREET -CIRCULATION

- · Signalised crossings
- Standard lane widths or more
- Potential clearways
- · Through bus traffic
- · Driveway access

SHARED ZONE

- pedestrian priority
- high pedestrian volumes
- generally no kerbs
- max traffic speed 10km/hr

LOCAL STREET

- Local traffic
- No though bus movement

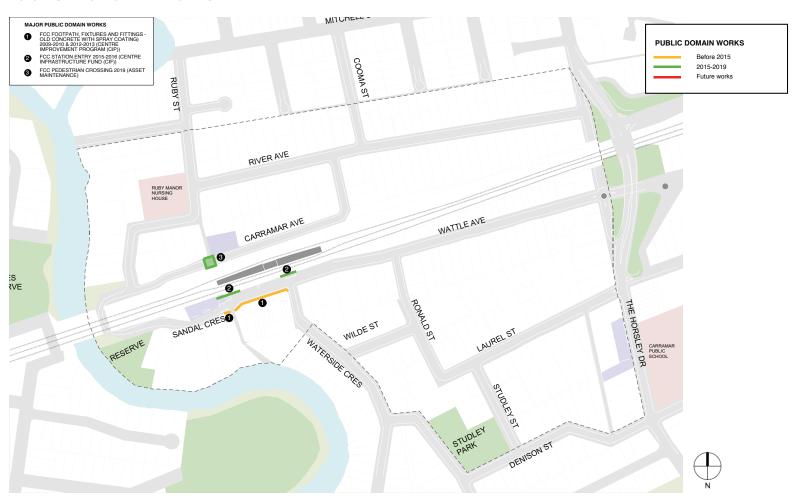
LANEWAYS - SHARED LANE

- 5-10m road reserve
- Generally one way
- Accessiblke to pedestrians
- Contrasting pavement to roadways

LANEWAYS -SERVICE LANE

- 5-10m road reserve
- · Generally one way

10.0 PUBLIC DOMAIN WORKS







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