Attachment B7(f)

Urban Design and Public Domain Study Appendix 3 Public Domain – Waterloo Estate (South) – Land and Housing Corporation



7.3 PUBLIC DOMAIN

7.3.4 Pu	7.3.3 Ec	7.3.2 Ac	7.3.1 Fr
Public Art, Signage and Wayfinding	Ecology and Biodiversity	Access and Circulation, Streets and Materiality	Framework, Strategy and Key Places
363	347	323	307



7.3.1 FRAMEWORK, STRATEGY AND KEY PLACES

The new and diverse public domain will invite the existing and future community of Waterloo to grow and experience a unique place where people are proud to live, work and play

Waterloo South, as the first stage of the renewal of Waterloo Estate, will set a new benchmark for urban renewal within Sydney and create a place for a growing community as part of Waterloo's transformation. The public domain strategy forms part of the project proposition to delliver the Vision and Project Objectives for the Estate. The public domain response provides a comprehensive vision and strategy for the public domain framework that will help define the Indicative Concept Proposal for Waterloo South.



PUBLIC DOMAIN RESPONSE

Creating a welcoming environment that will grow and change with the community over time, strengthening the existing community and creating new communities

The public domain and open space responses are guidelines that help achieve the project vision and objectives. The five over-arching responses help shape public domain and open space design considerations to create a public domain that will function as a binding agent for Waterloo South and the Estate, creating a network of legible, accessible and flexible spaces for people to interact and strengthen Waterloo's community.

PUBLIC DOMAIN AND OPEN SPACE AS AN INTEGRATED GREEN SYSTEM









Fig. 7.3.2 TL Bryant Park, NYC TR: South Boulevard, Copenhagen, 2016 BL: Printing Press Communal Roof NYC. BR: Central Park, Sydney

Strengthening Waterloo's green grid, whilst enhancing the communities health and well being within an urban environment by providing connections to nature through public domain and open space

The public domain and open space will need to promote a sense of health and well-being across the diverse community by providing high quality and sustainable public domain that is safe, welcoming, accessible and connects people to nature. Waterloo South has the opportunity to create a series of integrated green systems by retaining key existing trees and canopy, maximising access to open spacer, reinforcing and strengthening district green grid connections, and incorporating biophilic design principles (by designing with an understanding of the need to connect with nature), to contribute to climate mitigation and create a healthy, liveable urban environment.

WALKABLE AND ACTIVATED PUBLIC DOMAIN AND OPEN SPACE









Fig. 7.3.3 TL: Cafe Breakout, Redfern TR: AECCAFE, Kensington Street, Sydney BL: New Road, Brighton BR: NAIDOC Week, Redfern

Create better walking environments by activating the public domain and strengthening the community's connection with Waterloo at eye level whilst providing a safe environment for pedestrians and cyclists

Waterloo South will need to be a highly walkable place. The public domain will harness opportunities to create a linked and diverse network of spaces, and deliver a fine grained urban grid, to support and promote a highly walkable place. Opportunities for highly activated and diverse streets, laneways and pedestrian links will create an urban neighbourhood for people that is safe, walkable and connected.

CONNECTED BLUE GREEN INFRASTRUCTURE AND SUSTAINABILITY NETWORK









-ig. 7.3.4 TL: Victoria Park, Sydney. TR: Edinburgh Raingarden, Melbourne BL: Waterloo. BR: Sydney Park, Sydney

Establish a public domain and open space network that enhances and mitigates existing Blue-Green systems whilst creating opportunities to encourage bio-diversity and contribute to a GreenStar community

With an increased global and community focus on environment and sustainability, ensuring. Waterloo South adopts similar attitudes is primary. Blue-Green infrastructure includes an extensive approach to street tree planting, understoy planting, bio-retention and tree pits. This network of infrastructure works to support and improve existing habitat arrangements and biodiversity. Integrating elements of play and exploration within the network promotes an awareness and presence of the network and infrastructure throughout the community.

CREATE AN ACCESSIBLE PLACE









7.3.5 TL: Bryant Park, NYC. TR: Brooklyn Grange, NYC BL: Laneways, Melboume. BR: Sydney University Library Lawn, Sydney

Provide an all ages place with a diverse range of activation types and create spaces that are adaptive to the needs of an evolving community

The public domain and open space network needs to support the diverse community by providing an adaptable and flexible public domain network. Waterloo South presents opportunities to create safe and pleasant connections between key destinations for people of all ages with a high level of amenity, activity and inclusiveness.

CULTURAL INTEGRATION AND INTERPRETATION









Fig. 7.3.6 TL: Bush Traders, Darwin. TR: Street Art Melbourne, Matt Adante BL: Pitt Street Mall, Sydney. BR: Chippendale Green, Sydney

Provide an art and culture strategy that encourages and interprets culture and environment whilst integrating with the existing and future urban fabric

Cultural interpretation and integration will be present in numerous forms and styles including street art, temporary events, Indigenous programmes and street performance. The variety of large and more intimately scaled public spaces will serve to facilitate these activities by offering a spatial platform and occasional vertical canvas for the arts to manifest. Of particular importance is the capacity for Indigenous representation and engagement. Indigenous arts and sculpture will provide visual diversity and connect to the past, present and future Indigenous presence within Waterloo.



PUBLIC DOMAIN STRATEGY

existing and creating new communities community over time, strengthening that will grow and change with the Creating a welcoming environment

neighbourhood where the existing and future communities of the Estate can The renewal of Waterloo South will create an environment for people. The public domain will be inviting and set the foundation for a unique

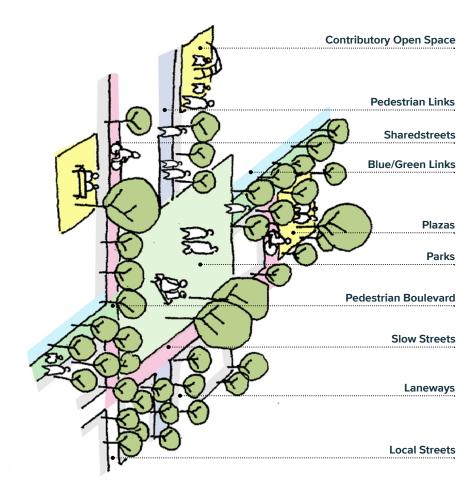
grow, and experience a place where people are proud to live, work and play

Waterloo South will become a place that is inclusive, inviting and welcoming contribute positively to the public domain activated street interfaces, and an energised ground plane where buildings Streets will be places of social connectedness through the inclusion of and a diverse hierarchy of spaces where people can gather, meet and relax environment that promotes community interaction through flexibility of uses priority precinct, the public domain will provide an active, safe and adaptive The public domain aims to put the community first. By creating a pedestrian

an Estate that engages with the whole of Waterloo and is a welcoming place dynamic and vibrant neighbourhood, where residents and visitors experience City of Sydney's public domain codes where appropriate. These include Waterloo's existing character of strength, integrity and resilience, creating a The public domain strategy demonstrates consideration and application of

to share, experience, engage and interact. The public domain will hamess engendering a strong sense of belonging within the community; a place

Sydney design codes the Sydney Streets Technical Specification (2013) and other relevant City of



PUBLIC DOMAIN MASTERPLAN

Strengthening community and connections

to the diverse needs and lifestyles of the community. through built form and public domain strategies, the public domain residents and visitors. Developing unique place characteristics, adaptive and resilient Estate. Promoting community interaction, the plan creates a hierarchy of movement systems and spaces catering public domain will enable flexibility of use for the community, both Waterloo South's public domain will create an active, safe,

LEGEND

- VILLAGE GREEN
 Supports community gatherings, events, recreation, productive and water
- 2 WATERLOO COMMON
 Provides open s
- Provides open space for neighbourhood gathering, productive landscape, play and
- 3 GEORGE STREET 20 25m wi 20 - 25m wide tree lined, landscaped corridor connecting the community to key destinations
- WATERLOO METRO STATION
 Sydney metro station
- RETAIL AND SERVICES HUBS
 Provide a mix of local retail and
- **6**
- COMMUNITY HUBS
 Provide community gathering space and community services

- 9 A pedestrian connection between key destinations that reflects the local water story
- **® COMMUNITY GARDENS**Provide productive opportunities, for the community to grow and harvest produce
- **©** ACTIVITY PLAY ZONES
 Provide opportunities for active uses including play space, picnic areas, fitness and youth zones
- key spaces, amenities th accessible for abilities
- ACCESSIBLE LOCAL MOVEMENT ROUTE Roure
 Provides a route that connects key spaces, destinations and amenities that is safe and accessible for all ages and



Fig. 7.3.8 Waterloo South indicative concept proposal

KEY PLACES

for each and every person Waterloo South has a place

living within Waterloo South. places. These places are the Village Green and Waterloo ensuring a variety of places for the diverse community key place is reflective of a particular character and uses amenity and are the heart of the public domain. Each Common. These places are anchored by community Waterloo South's public open space is defined by two key

support the proposed intensification of retail uses to surrounding neighbourhoods. In the interim, George the major north - south spine that connects the Estate renewal of George Street into a Pedestrian Boulevard as A third key place envisioned for the overall Estate is the enhanced amenity that includes cafe breakout spaces to promotes pedestrian and cycle movement and provides but proposed to be modified into an 'activity street' that Street will retain its current use for vehicular movement

and social connection throughout the public domain. and diversity available and act as local places for leisure across Waterloo South increase the overall open space meet, gather and connect. The pocket parks located provide for the community's needs, providing places to within its immediate surrounds, each key place aims to Responsive to the architectural character and community

northern and southern key places along its spine. The laneways that run east-west from George Street disperse to the greater Waterloo community. George Street is future Waterloo Metro Station. the smaller pocket parks and active street edges beyond, pedestrian movements and filter the circulation towards the major north - south connection, embracing The streets of Waterloo South connect the key places connecting Waterloo South into its surrounds and to the

Legend

ranging from pedestrian only laneways to shared zones the typical transit. They are diverse in their typologies and local streets. The streets are active places, with The streets are key places themselves, offering more than

Fig. 7.3.9 Waterloo South key places

0m 100 ×

 Social Corners Key Places

Pocket Parks Retail

ground floor retail and services, pocket parks, landscape setbacks and pedestrian breakout spaces activating

their edges.

character of Waterloo. Waterloo South and reflect the unique qualities and streets or open spaces, are evenly distributed across more streets. The key places, be they social corners, adjacent to ground level activation and public open corners are characterised by their northern orientation, by the arrangement of ground floor retail and services space, and their location at the intersection of two or space work together to form social corners. These Active building frontages, streetscape and public open The activation of the public domain is heavily influenced

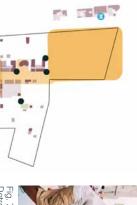


Fig. 7.3.12 Campus Maritus, Detroit

VILLAGE GREEN

sporting and youth zones, waterplay and community gardens a central lawn for active recreation. Enclaves of activity zones anchored by a feature community pavillion, the 'Big Roof the rich tapestry of Indigenous heritage within Waterloo and is the future Waterloo Metro Station, the Gadigal Gardens reflect Green and within key areas. Directly opposite the main entry to Ample shading is provided along the perimeter of the Village flank its southern half providing opportunity for play space, The Village Green maximises its spatial opportunity by providing



Fig. 7.3.11 Ian Potter Wild Play



Seattle Fig. 7.3.13 Beacon Food Forest

WATERLOO COMMON

residents and users at the southernend of the Estate. These uses passive shaded lawn areas complete the programmable space A smaller productive landscape zone (community garden) and use, a neighbourhood play space and a youth activity space. include a flexible urban plaza for community events and daily Waterloo Common will provide local open space amenity for



Fig. 7.3.15 Goyder Square,



Fig. 7.3.17 Clyde Warren Park, Dallas

Fig. 7.3.16 Granary Square, London

GEORGE STREET PEDESTRIAN BOULEVARD

will become the major north - south 'green' spine that connects and food production, as well as rest and leisure. George Street include cafe breakout spaces, micro plazas, micro play spaces uses that respond to building ground floor uses. Amenities for contributory open space with 'micro' spaces dedicated to as a tree lined Pedestrian Boulevard that provides opportunity the Estate to surrounding neighbourhoods The future vision for George Street is to reimagine and renew it



Fig. 7.3.18 Sonder Boulevard, Copenhagen Barcelona Fig. 7.3.19 Passeig de Joan,



Fig. 7.3.20 Passeig de Joan, Fig. 7.3.21 Edinburgh Rain Garden, Melbourne

Barcelona

GEORGE STREET ACTIVITY STREET

URBAN PLAZAS

edges. The proposed changes to George Street supports the transport modes. that promotes pedestrian and cycle movement and active renewal of Waterloo South into a Pedestrian Priority Precinct setbacks and pedestrian breakout spaces activating the a mix of active ground floor retail and service uses, landscape focused street into a pedestrian focused 'activity street', with Pedestrian Boulevard will take time, an interim approach to George Street has been developed to transition it from a car Recognising that the evolution of George Street into a future



7.3.22 Baffi and Mo,



Avenue ig. 7.3.23 804 Congress=



Fig. 7.3.24 Bourke Street Cycleway, Sydney



Fig. 7.3.25 Bourke Street Cycleway, Sydney

Fig. 8.3.28 Clyde Warren Park, Dallas

Fig. 7.3.29 Macquarie University Courtyard



Fig. 7.3.26 Pitt Street Mall, Sydney





Art Program, Sydney

SOCIAL CORNERS AND POCKET PARKS

a sense of ownership and place. plaza, a community building interfaces with both the Metro connects the Estate to the major transport hub. Within the the community the opportunity to occupy the space and create keep users comfortable, whilst temporary event space offers visual locator for people. Seating groves and raised lawns will Quarter and Village Green, offering a common connection and Two new urban plazas provide activated public space that parks provide more intimate community places for residents within the immediate vicinity. Edible landscape opportunities, characterised by their northern orientation, location at the location, size and flexibility of design. Social corners are doorstep play and cafe breakout spaces respond to their domain opportunities throughout Waterloo South. The pocket public open spaces and retail or community uses. intersection of two or more streets and their proximity to key The social corners and pocket parks are the secondary public



Fig. 7.3.27 'Edge of Trees' by Janet Lawrence, Sydney



Park, Los Angeles



Sydney ig. 7.3.31 Chippendale Green



Laneways



Brisbane .33 Bakery Lane,

VILLAGE GREEN



KEY PRINCIPLES

- Planted Edge: productive urban forest passive recreation and landscape, tree retention
- Open Lawn: activities. passive recreation and
- Big Roof: Ideal for community events and
- Playspace: Designed to service the community
- amenity. space for markets and Market and Amenity Zone: Tree groves with flexible
- landscape opportunity. largest single edible Community Garden: The
- Gadigal Garden: A flexible to and expressive of the recreation space, connecting Indigenous narative of

Provide equal access to all

- Pedestrian Connection: pedestrian movement Key through site link for
- Waterplay: Active water Water Story of Waterloo. zone for play and swales contributing to the

exploration

Bio-retention: Planted

PENERAL PENERAL

Fig. 7.3.35 Joynton Park, Zetland

OBJECTIVES

- Create a central destination for community recreation and public exhibition space for by a nearby community building the community, complimented
- Offer a variety of programmable fixed playgrounds and youth range from local markets to activity options. These may recreation. both temporary and permanent all community members, offering spaces to cater to the needs of
- Deliver a clear and legible itself. Connections between encouraged by numerous way programmed boundaries and within the space along the Village Green's pedestrian treatments and amenity stations finding measures, pavement connection, spaces are both
- identity of Waterloo through unprogrammed spaces Use the programmed public art and installation. express the cultural and creative members of the community. t
- the characteristic of Waterloo.



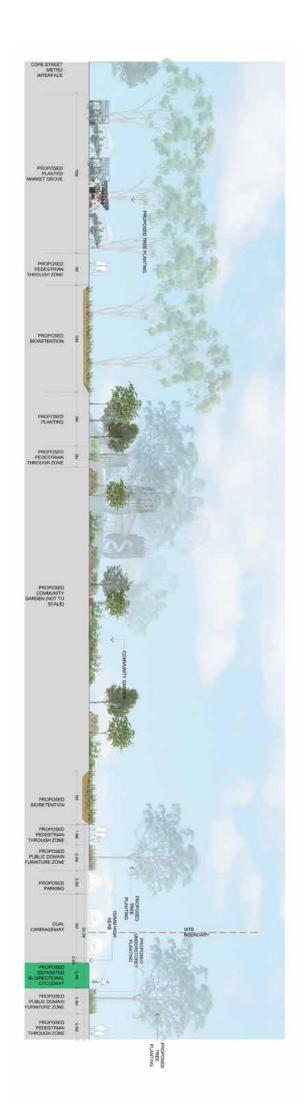
Fig. 7.3.36 Ian Potter Wild Play, Centennial Park

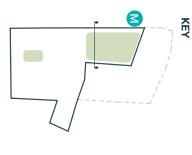
CONSIDERATIONS

- Improve ease of the remaining Estate. between the Village Green and connection
- Maximise programmable space public domain. to provide a safe and vibrant
- keep the edges of the park active Use active breakout spaces to
- well as a play space and aesthetic sustainable design initiative as Urban Design as an ecological possibilities of Water Sensitive Integrate and and safe during night and day. explore
- unique characters within the materiality to define the public greater Village Green featuring domain and distinguish resolution for the space. urban elements and
- Push the boundaries of public art



Fig. 7.3.37 Menidi Edible Park, Malaysia





WATERLOO COMMON



0m.....20 A

KEY PRINCIPLES

- Planting: productive landscape, tree retention, passive recreation and urban torest
- Urban plaza: Increasing the BBQ facilities and shelter. programmable community space. Inclusive of picnic and
- to service the southern Playsapce: Designed neighbourhood.
- largest single edible Waterloo South's second Community Gardens:
- landscape opportunity.
 Bio-retention: Planted swales Story of Waterloo. contributing to the Water

Lawn: Accomodate existing

and proposed trees.

- Pedestrian Connection: pedestrian movement. Key through site link for
- Park Laneway: Laneways moving residents north-south along park.

OBJECTIVES

- Create a local park, reflective of and in response to the needs of the immediate surrounding community.
- Ensuring the resolution of public resolution and execution. space meets a high design
- overall canopy cover, and using in the area, but increasing the Support the existing tree species present environment. species to complement the
- their identity and explore the Provide programmed spaces their neighbourhood. possibilities and potential of community collaborative, that allow the that will be diverse and ō represent
- members of the community. Provide equal access to all

CONSIDERATIONS

Integrate Indigenous culture and heritage through edible Explore the potential of landscapes, art and materiality.

neighbourhood

- through innovative design and scale programmable space Continue the linear band of resolution.
- in smaller spaces both day and Provide and explore the Water Sensitive Urban Design distinguishing use and program possibilities through the entire Estate. that integrates the Blue Line furniture, fixtures and lighting in of materiality,



Fig. 7.3.40 Bonn Square, Oxford

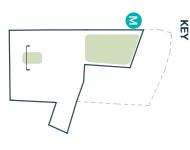


Fig. 7.3.41 Wulaba Park, Waterloo

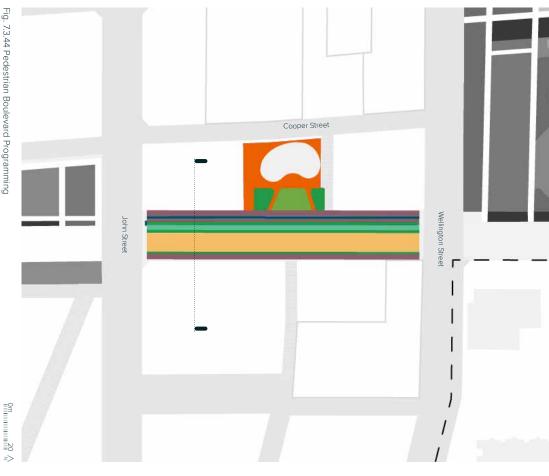


Fig. 7.3.42 Chippendale Green, Sydney





GEORGE STREET PEDESTRIAN BOULEVARD (FUTURE VISION)



KEY PRINCIPLES

- Bushtucker garden: garden that features plants native to Waterloo and the Greater Sydney.
- Urban plaza: Compliment community facilities, offering furniture and breakout. flexible space for mobile
- Pedestrian Movement: movement zone. Dedicated pedestrian
- cycleway for George Street Cycleway: Dedicated
- Bio-retention: Planted swales Story of Waterloo. contributing to the Water
- and proposed trees. Lawn: Accomodate existing
- pedestrian movement. Key through site link for Pedestrian Connection:
- and providing public domain Accomodating existing trees Domain Furniture Zone: Planted Verge / Public

OBJECTIVES

- Create a safe and inviting pedestrian passage for the community that will serve as a central spine for the Estate.
- Provide equal access to members of the community.

ല

- during both day and night. Remain active and populous
- Estate. expressed throughout the the Blue-Green link that Pedestrian Boulevard to anchor Use the linear nature of the S.
- Achieve Water Sensitive Urban selective planting. gardens, water storage and Design outcomes through rain
- Ensure that the furniture, urban and needs of the community. site are reflective of the interests elements and materiality of the

CONSIDERATIONS

- Use activation, lighting and safety day and night. fixtures to ensure pedestrian
- Integrate Indigenous culture Express Water Sensitive Urban and heritage through edible Design as a sustainable and landscapes, art and materiality.

aesthetically appropriate Blue-

Explore the possibilities Green link for the Estate. activities and programs for spaces and pocket parks. spaces, breakout



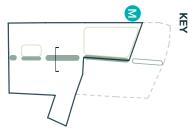
Fig. 7.3.45 Baffi and Mo, Redfern



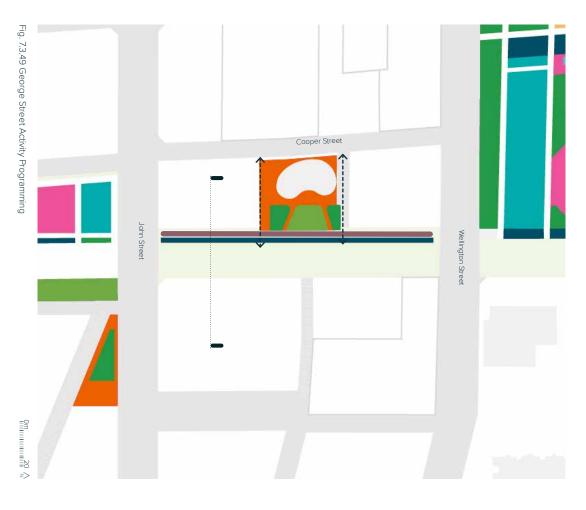
Fig. 7.3.46 Sonder Boulevard, Copenhagen



Fig. 7.3.47 Hammarby sjöstad, Stockholm



GEORGE STREET ACTIVITY STREET (INTERIM APPROACH)



KEY PRINCIPLES

- Bushtucker garden: garden that features plants native Sydney area which are to Waterloo and the Greater medicine resources. used in traditional food and
- Urban Zone: Compliment furniture and breakout. community facilities, offering flexible space for mobile
- Bio-retention: Planted swales Story of Waterloo. contributing to the Water
- **<--->** Pedestrian Connection: pedestrian movement. Key through site link for
- and proposed trees Lawn: Accomodate existing
- Pedestrian movement zone: from north to south. zone connecting the estate 2.5m pedestrian movement

OBJECTIVES

- Create a safe and inviting pedestrian passage for the community that will serve as a central spine for Waterloo South.
- Provide equal access to all members of the community.
- Use the linear nature of George Remain active day and night.
- Waterloo South. that is expressed through Street to anchor the Blue Line
- Achieve Water Sensitive Urban Design outcomes through rain
- elements and materiality of the and needs of the community. site are reflective of the interests Ensure that the furniture, urban selective planting. gardens, water storage and

CONSIDERATIONS

- Use activation, lighting and safety day and night. fixtures to ensure pedestrian
- Integrate Indigenous culture Express Water Sensitive Urban and heritage through edible landscapes, art and materiality.

aesthetically appropriate Blue

Design as a sustainable and

activities and programs for Explore the possibilities Line for Waterloo South. spaces and pocket parks. spaces, breakout



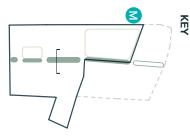
Fig. 7.3.50 Passeig de Joan, Barcelona



Fig. 7.3.51 Sonder Boulevard, Copenhagen



Fig. 7.3.52 Bourke Street Cycleway, Sydney



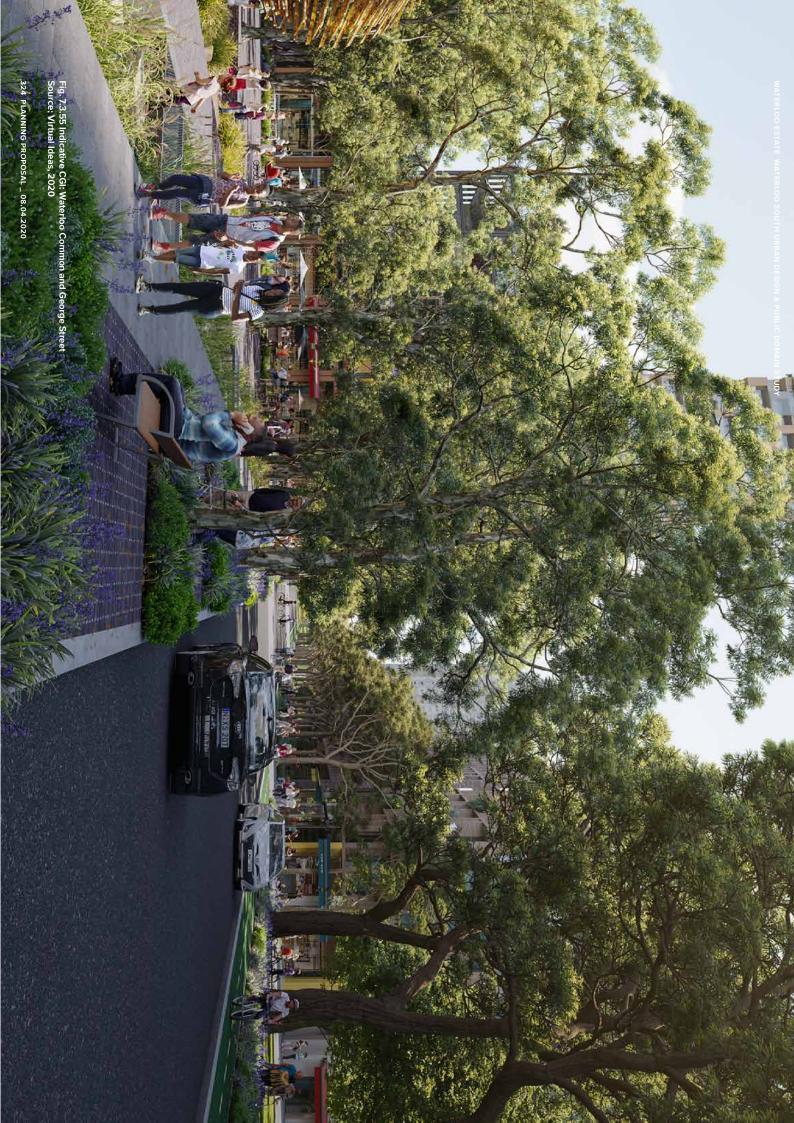


7.3.2 ACCESS AND CIRCULATION, STREETS AND MATERIALITY

Developing an accessible and active public domain that reflects the unique character of the Estate

The Waterloo South public domain will connect the Estate as one community to its greater context and create a highly walkable environment that is seamless and celebrates Waterloo's unique characteristics. Within Waterloo South, the street geometry and arrangement will promote pedestrian priority. The streets will be supported by a selection of suitable materials and amenities that will provide ease of circulation, access and improve safety.

The public domain access and circulation, streets and materiality demonstrate consideration and application of the City of Sydney Public Domain Codes (2012), Sydney Street Technical Specifications (2013) and Cycle Strategy Action Plan (2007-2017, 2018) and relevant City of Sydney codes where appropriate.



WATERLOO AS A PEDESTRIAN PRIORITY PRECINCT

SLOW STREET SYSTEM



Fig. 7.3.56 New Road, Brighton

Creating a safer pedestrian environment

to 6m, the Waterloo South's street network will be re ways, through-site links and vehicle carriageways reduced for pedestrians and cyclists. With widened footpaths, shared imagined as multi- purpose social places for the community. reduction to 40km/hr, creating an environment that is safe uses other than mobility. Streets will be designed for speed streets will be redefined, creating opportunities for new modes of transport such as walking and cycling. Waterloo's Slow streets throughout Waterloo South will prioritise active

connections.

the fine grain links to the primary vehicular and pedestrian is not compromised as the street network transitions from north-south connections, ensure that pedestrian connectivity enhanced pedestrian crossings at major east-west and residential areas of Waterloo South from the major parks

Street geometry such as intersections with

CONNECTED STREET NETWORK



A safe, accessible and complete street grid will keep Waterloo South connected

Fig. 7.3.57 AECCAFE, Kensington Street, Sydney

Providing the community with a public domain which places cycling and pedestrian movement at the forefront of the transport grid

prioritise pedestrian movement, dispersing people into the of the historical fine grain street network. The laneways Increased connectivity will come with the re-introduction

cycle routes, and shared cycle routes at the Metro Quarter. maintained and improved through the inclusion of dedicated Estate from surrounding suburbs, and these connections are slow streets and widened footpaths provide ample space as the primary transport method, as recommended in City of Waterloo South recognises the importance of active transport South. There are numerous cycle paths leading into the for pedestrian movement across the entirety of Waterloo Sydney's 202020 vision. Pedestrianised laneways, shared

PROMOTE ACTIVE TRANSPORT





INCREASED ACCESSIBILITY



Fig. 7.3.59 Wayfinding, City of Sydney

Ensuring that the streets of Waterloo South are accessible to all people

safety and way-finding enhanced by the new street network will provide improved Visual connections and sight lines that are revealed or Waterloo Metro Station and the major public open spaces particularly to and from the Metro Quarter and future key destinations and services. Widened footpaths provide Movement Route (ALMR) will allow for easy connectivity to mobility issues or other impairments. An Accessible Local place that is accessible to all people, including those with As a pedestrian priority precinct, Waterloo South will be a movement and amenity,



A PEDESTRIAN PRIORITY PRECINCT

As the first stage in the renewal of the Estate, Waterloo South provides the opportunity to put in place strategies that will help the Estate to evolve over time into a pedestrian priority precinct

The re-configuration of the Estate's existing street grid will transform it into a vibrant, activated, safe and walkable place to live, work and visit. The new and diverse range of streets will support new shops, services and other businesses, contributing to an activated and more highly connected and integrated movement network.

Recognising that the evolution of the Estate into a future Pedestrian Priority Precinct will take time, the strategies for Waterloo South have been developed to support the evolution of the Estate over time. An staged approach to the street network has been developed. This includes:

- An interim approach for George Street to transition it from a car focused street into a pedestrian focused 'activity street', with a mix of active ground floor retail and service uses, landscape setbacks and pedestrian breakout spaces activating the edges.
- A holistic appoach to the Local Accessible Movement Route (ALMR) to provide for connected accessible movement across Waterloo South and the Estate throughout the renewal.

PEDESTRIAN NETWORK

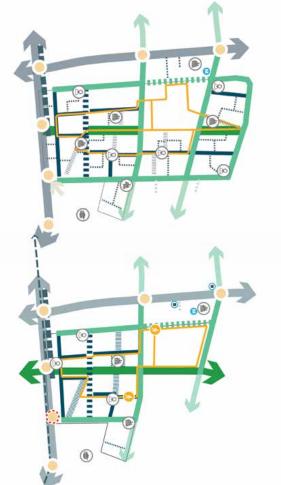


Fig. 7.3.60 Waterloo Estate Pedestrian Network

Fig. 7.3.61 Waterloo South Pedestrian Network

Pedestrian movement will be safe, accessible and available to all

As a pedestrian priority precinct, the Estate will introduce street speed reduction, designated pedestrian laneways and an Accessible Local Movement Route. The transformation of George Street into a Pedestrian Boulevard offers a direct and safe connection between the north and south of the Estate, connecting to the edges of major public open spaces. The Accessible Local Movement Route allows all people in the community to safely and comfortably access key community hubs, public spaces and major transport locations.

Waterloo South will will introduce street speed reduction, designated pedestrian laneways, a modified Georige Street into an 'activity street' and an Accessible Local Movement Route. It will allow all people in the community to safely and comfortably access key community hubs, public spaces and major transport locations and will be extended in later stages through Waterloo North and Waterloo Central.

Legend

Arterial Road

Local Street

Local Shared Slow Street

SHARED SLOW STREET NETWORK

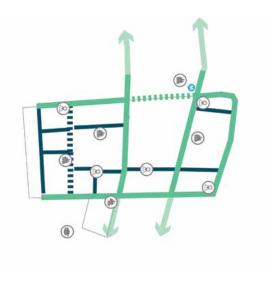


Fig. 7.3.62 Waterloo Estate Shared Slow Street Network

encourages active transport Establishing a connected street network that

footpaths, provides ample space for cyclists, pedestrians and safer movement corridor for cyclists and, along with widened movement. The network of shared slow streets provides a to 40km/hr for local streets and laneways, with pedestrian vehicles to all move safely throughout the Estate. laneways removing cars entirely in favour of pedestrian only Across the Estate, streets will be designed for speed reduction

will deliver the majority of the new network of shared slow streets envisaged for the Estate. This will provide for safer

will begin with the renewal of Waterloo South. Waterloo South

The evolution of the Estate into a Pedestrian Priority Precinct

and vehicles to all move safely throughout Waterloo South. movement corridors for cyclists and, along with widened

of the Boulevard, connecting green and blue infrastructure

along its spine.

footpaths, provides ample space for cyclists, pedestrians

(1)

Fig. 7.3.63 Waterloo South Shared Slow Street Network

Creating a green movement corridor that prioritises pedestrian movement

edible landscape initiatives and activation stations (cafe breakout, fitness, doorstep play). Bio-retention runs the length Boulevard will be activated by ground floor retail and services spaces and the finer grain street network. The edges of the south pedestrian spine, connecting the community to key public priority to pedestrians. The Boulevard will serve as the north-George Street into a new 'green' movement corridor by giving The future George Street Pedestrian Boulevard will transform

GEORGE STREET PEDESTRIAN BOULEVARD

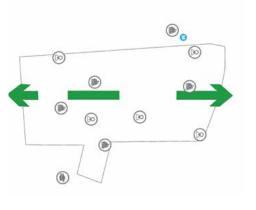


Fig. 7.3.64 Waterloo Estate Pedestrian Boulevard

GEORGE STREET ACTIVITY STREET

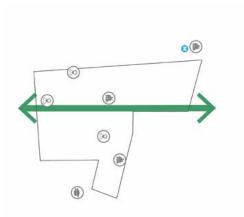


Fig. 7.3.65 Waterloo South George Street Activity Street

Creating an interim movement corridor that prioritises pedestrian movement

cycle movement and active transport modes. changes to George Street will prioritise pedestrian and breakout spaces activating the edges. The proposed retail and service uses, landscape setbacks and pedestrian An interim approach to George Street will transition it from focused 'activity street', with a mix of active ground floor its current character as a car focused street into a pedestrian

Educational Building









Laneways --- Pedestrian Links Signalised Intersection New Crossing Pedestrian Boulevard Accessible Local



COMPLETE STREETS

Waterloo's streets are for everyone

The approach to Waterloo South and the Estate adopts a 'Complete Streets' approach whereby streets are considered as social places beyond just their functional purposes. These places are developed holistically, integrating all aspects of public domain design, to create environments that are unique, engaging, hard working and high performing.

SAFE AND WALKABLE



Source: New Road, Brighton

Creating an Estate that promotes walking as a safe, simple and efficient transport mode

Waterloo South and the Estate is to be a pedestrian priority precinct. The 'Complete Streets' approach implements a slow street network, increasing the safety for walking and cycling, through vehicular speed reduction. An Accessible Local Movement Route will provide universal access and amenity, for children, the elderly and members of the community with mobility impairments, to access key community facilities and public open spaces throughout the Estate at all stages of the renwal.

HEALTHY AND GREEN



Source: Passieg de St Joan, Barcelona

Delivering streets that are environmentally responsive and contribute to the community's health and wellbeing

Waterloo South and the Estate's 'Complete Streets' approach aims to improve community health and well-being through street 'greening' and cooling initiatives. An increased number of street trees, under storey planting and water sensitive urban design (WSUD) opportunities, will provide benefits such as improved air quality and lower ambient temperatures, shading roads and footpaths, to create a comfortable walkable environment. Street planting will strengthen biophilic connections and visually soften the streetscape, social spaces and key destinations, enhancing the everyday quality of life for residents, workers and visitors.

ACTIVATED AND ECONOMIC



Fig. 7.3.68 Baffi & Mo, Redfern

Creating activated and vibrant streets that contribute to community life

An interconnected and diverse network of streets will support social activity, encourage active ground floor uses and provide opportunities for activation and occupation of the public domain. Through increased social activity, public space programming, and active retail frontages, Waterloo South will be an attractive place to live, work, rest and play and encourage residents and visitors to shop, eat, socialise and meet all their daily needs within the area. This typically enhances retail spending, and increases the viability of business, leading towards economic growth and opportunities to encourage local retail that is unique to Waterloo.

PLACEMAKING CATALYSTS

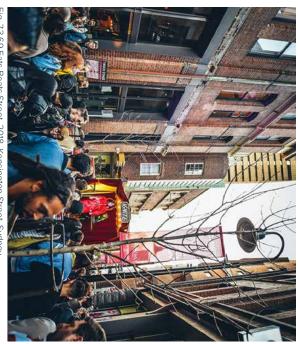


Fig. 7.3.69 Eats Beats Street, 2018, Kensington Street, Sydney

Providing a stage for placemaking to encourage retail, service and community activation opportunities throughout Waterloo South

The streets throughout Waterloo South are important placemaking catalysts, that contribute to the public open spaces they surround, and are the basic infrastructure required to establish a healthy and sustainable community. Their diversity are unique responses to their context and potential use, by the Estate's residents and visitors, throughout the year. The streets support the retail, service and other community activation opportunities at ground level as well as providing passive and active programmed spaces for all of the community that are uniquely Waterloo.



Fig. 7.3.70 Pitt Street Mall, Sydney



ACCESSIBLE LOCAL MOVEMENT ROUTE

PRECEDENTS

and creative connected, informed A community that is

















Fig. 7.3.76 Passeig de St Joan, Barcelona



Fig. 7.3.77 Wayfinding, City of Sydney

that will help define its character, including: includes a range of simple design initiatives The Accessible Local Movement Route (ALMR)

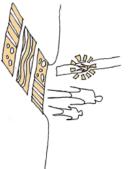
DESTINATION WAYFINDING





VISIBLE AND SAFE CROSSING DESTINATIONS





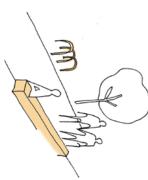


ACCESSIBLE AMENITY





AMENITY FOR ALL



PUBLIC ART AS IDENTITY AND PASSAGE



Fig. 7.3.71 Accessible Local Movement Route

distance in minutes, encouraging walking and distance and denote directions using walking cycling as a transport mode. Utilising way finding signage to measure

art. Crossings will be accessible for all people, will be signified through signage and public towards, from and between key places, which contrast, braille on signage, aural signals and recommended include increased colour aid those with mobility impairments. Strategies including the implementation of strategies to Clear and visible pedestrian crossings leading

increased crossing times

fitness stations, kids play and seating are just a and abilities. Water bubblers, bicycle parking, Enhanced public amenity for people of all ages small range of the possible inclusions.

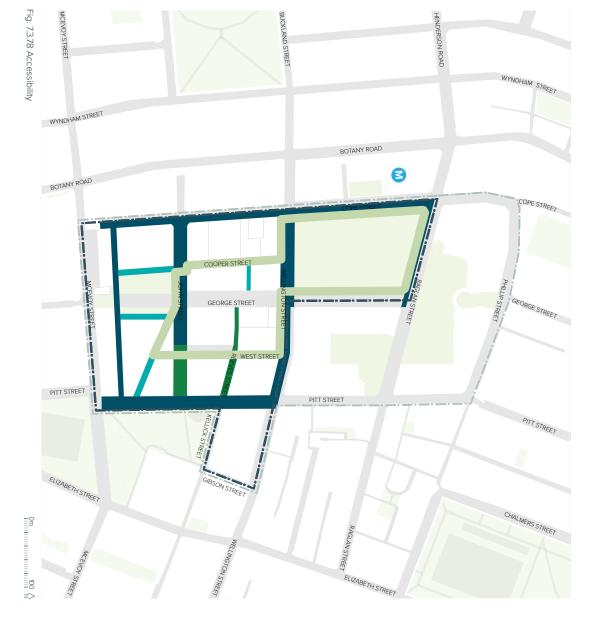
and adults, whilst offering accessible seating options, and providing adequate shade Adjusting heights of amenities for children comfortable experience for all. along the route will ensure an inclusive and

art is a method of way finding and locating, Public art is an important component of the community. local personality, character and identity. Public Accessible Local Movement Route, adding participation in creating a place that reflects the and also an opportunity to invite community Estate's unique cultural heritage, character and

ACCESSIBILITY

Celebrating the Estate's unique topography whilst providing universal access throughout the neighbourhood

To encourage pedestrian movement throughout Waterloo South, and provide equitable access to key facilities and public open spaces, an Accessible Local Movement Route (ALMR) has been incorporated. Waterloo South's topography poses some challenges for accessibility, particularly in the east, with a notable increase in grade. Pedestrian laneways off Pitt Street will include stairs and ramps, for a unique laneway character, distinct from other street typologies. The ALMR provides a universally accessible route, connecting the community to key destinations, in a safe environment for all ages. As a pedestrian priority precinct, the existing and new streets and laneways should incorporate geometries that maximise pedestrian comfort and accessibility wherever possible.



Legend

Accessible Local Movement Route: Max grade 1:20

Existing Street

Character

Lanew

■ Laneways and Streets requiring stair/ramp access for pedestrians. Grade <1:20
Shared Streets / Laneways. Grade №20

SAFETY AND DESIGN

and visit A safe and welcoming place to live

spaces, streets and laneways, for good passive surveillance reinforcing sight lines and strengthening views to and from key Estate to be a welcoming and safe place for people to live and visit. Public safety for pedestrians, cyclists and motorists is important for the Throughout Waterloo South buildings define the public domain,

places for people to meet and spend time throughout the day. is enhanced at these key places. This is strengthened by well programmed public domain spaces and the creation of parks as key public domain spaces, and a fine grain street network, activity Through a combination of co-locating community buildings with

edges, landscaped building setbacks, and active social corners, a By limiting blank facades, providing active retail and community pedestrian activity and active use of the public domain. sate and vibrant day to night economy will be encouraged, promoting

South, as a pedestrian priority environment, will reduce and slow In line with the guidelines of the Sydney Streets Code, Waterloo and pedestrian links, increasing the ground level permeability of the vehicle movements with a network of shared slow streets, laneways

a safe environment to live, work and visit. the streets and laneways, will maximise passive surveillance, creating uses, with residential uses at both ground and upper levels addressing Increased visibility and active edges at ground level through a mix of



Fig. 7.3.79 Active Edges: Melbourne Laneways



Fig. 7.3.82 Sightlines: Klyde Warren Park, Dallas, Texas



Fig. 7.3.80 Views: Bryant Park, NYC



Fig. 7.3.81 Active Edges: Mint Plaza, San Francisco



Fig. 7.3.83 Sightlines: Passeig de St Joan, Barcelona



Fig. 7.3.84 Street Speed Reduction / Slow Shared Streets: New Road, Brighton



Fig. 7.3.85 Passive Surveillance: Bonn Square,

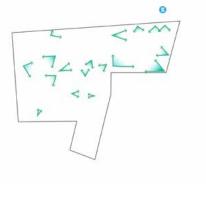


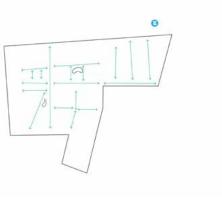
Fig. 7.3.86 Cycle and Pedestrian Strategy: Auckland

VIEWS SIGHTLINES

PASSIVE SURVEILLANCE

ACTIVE EDGES







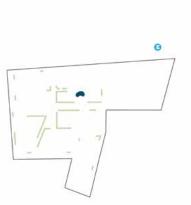


Fig. 7.3.87 Views

0m 100 \

Fig. 7.3.88 Sightlines

0m 100 \

Fig. 7.3.89 Passive Surveillance

0m 100 ×

Fig. 7.3.90 Active Edges

9m 100 A

Keeping the street active and open at all times

Clear and extensive views across and within all key places and space

Maintaining and improving visual connections throughout Waterloo South

Providing passive surveillance opportunities to increase community safety

spaces, but also along the pedestrianised laneways that Village Green and Waterloo Common, which are large community connection and safety, particularly within the at the upper levels. Passive surveillance is important for residential and commercial uses that address all orientations Passive surveillance is provided on all frontages by comprise the fine grain street network of Waterloo South.

activation is provided by the inclusion of pocket parks residential uses can promote night time uses, increasing social comers, George Street Activity Street, Village Green the community presence throughout the day. Additional places and activity stations to encourage use day and night and Waterloo Common, that incorporate a range of meeting facilities. Activation of the streetscape through nonparticularly with ground floor retail, services and community Waterloo South encourages and facilitates active edges

Views within key public spaces and social corners.

and day, for the safety of users at all times.

movement route for all people at all times.

all major transport and community hubs, promoting a safe optimise visual connection between the community and and can improve overall public safety. These sight lines will and continuous, provide clarity in direction and destination, plaza connections. Sight lines that are unobstructed, well lit Sight lines are provided along all major streets, park and

corridors across the spaces and along the adjacent streets. These views will be clear and well illuminated both night

pocket parks and urban plazas, offer clear and ample view

The Village Green and Waterloo Common, along with all



Passive Surveillance from upper levels.

Active Edges: Ground floor retail and other activation typologies

Community Buildings



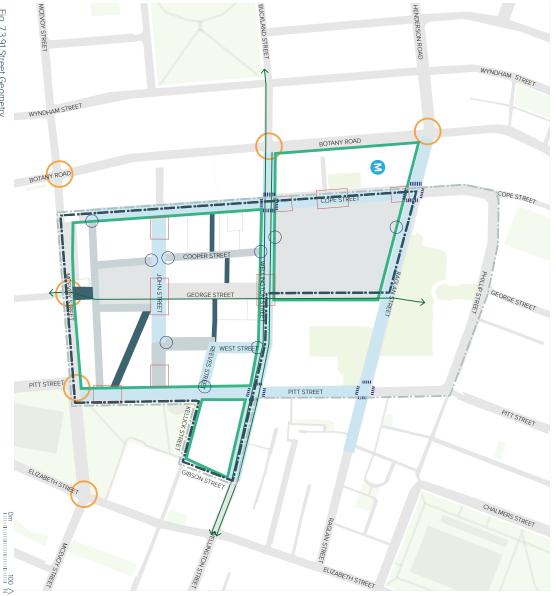
STREET GEOMETRY

Ensuring people are prioritised in the public domain

The streets within Waterloo South are a combination of existing and new arranged to promote pedestrian permeability and safety, and contribute to the creation of a pedestrian priority precinct. The contribution of streets to the urban environment is enhanced by their design and are in accordance with the current relevant Australian Standards and Sydney Street Codes 2013. Along with meeting the requirements of these documents, the street network:

- References the historical context and present geography of the site,
- Prioritises pedestrian movement by ensuring wide clear thoroughfares and regular safe crossings between carriageways,
- Contributes to a balanced public domain by creating conditions that favour pedestrian and cycle movement, without compromising efficiency in vehicle movement and;
- Streets will be constructed to be robust, easily maintained and environmentally responsive.

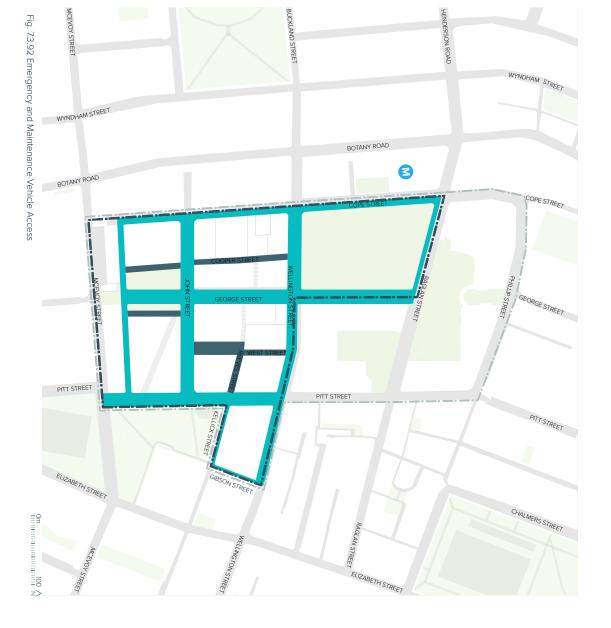




EMERGENCY AND MAINTENANCE VEHICLE ACCESS

Safety and security is considered through the inclusion of streets that are accessible for emergency and maintenance vehicles

Throughout Waterloo South there is a network of connected streets providing emergency and maintenance vehicle access. Six metre wide carriageways provide parking bays and/or dedicated loading and drop off zones for vehicles. Three metre carriageways are designed without kerbs, and also include dedicated loading and drop off zones for emergency and maintenance vehicles.



Legend

Emergency and Maintenance Vehicle Access 6m carriageway

Emergency and Maintenance Vehicle Access 3m carriageway with allocated loading and drop-off zones



KEY STREETS

spaces and community connectors Streets as social places, active

prioritise pedestrian and cycle movement. and upgraded crossings, shared zones and reduced vehicle speeds these streets become social spaces in addition to their functional purpose. Increased building setbacks and widened footpaths, new Ranging from wider arterial roads to narrower laneway connections, community, social, retail and services, and transport facilities available. The streets of Waterloo South connect people to the numerous

Design (WSUD) initiatives, presents a 'green' and environmentally sustainable street approach. Activity stations, adjoining major parks and urban plazas, compliments the streetscapes and increases the activity along their edges. palettes and tree replacement ratios, and with Water Sensitive Urban The existing street tree canopy is increased by renewed planting

busier active areas of Waterloo South, around activity centres and public open spaces, into the quieter more residential zones, with complete ease through a dispersed range of routes and options. The laneways are opportunities for pedestrians to move from the

range of streets, as variable as they are possible, ranging from public opportunities for cultural and creative representation, in the diverse and street art to cultural activity installations and edible landscapes The streets are also catalysts for community collaboration. They create

- Pedestrian Boulevard 20 25m
 Local Street 20.2m
- Local shared street 20.2m
- Shared Slow Street 13m IIIII Neighbourhood Laneways 9m IIII Park Laneways 9m

 - Pedestrian Laneway 6m Pedestrian Access Laneway 9m Open Space (Parks and Setbacks)

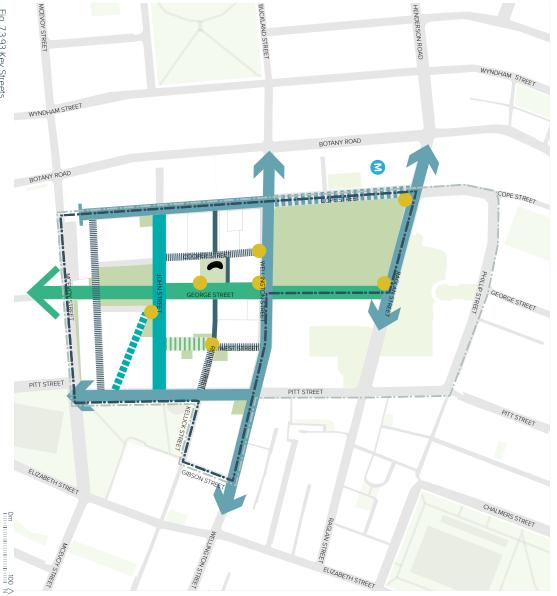


Fig. 7.3.93 Key Streets

GEORGE STREET

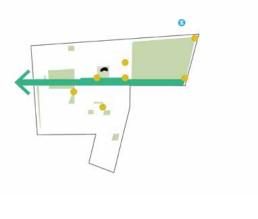


Fig. 7.3.94 George Street Activity Street



Sjöstad, Stockholm



Fig. 7.3.96 Sonder Boulevard, Copenhagen

0m 100 A

LOCAL AND CONNECTOR STREETS

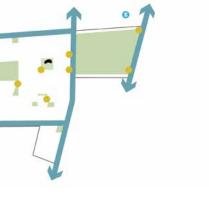


Fig. 7.3.97 Local and Connector Streets



ig. 7.3.98 Baptist Street, Redfern



0m 100 ∧ Fig. 7.3.99 Stanley Street, Southbank Brisbane

A renewed approach to connecting the Estate, through greening, activation and collaboration Reinvigorating the Estate's primary connector streets as green spaces for people

edges of both the major parks, the George Street Activity Street is the first stage of the renewal of George Street into a future Pedestrian Boulevard and 'Green Spine' of the Estate, and a primary component of the Accessible Local Movement footpaths adjoining active building frontages, creates opportunities for retail and cafe breakout spaces. Connecting to the George Street is modified into an 'activity street' that links the northern and southern areas of Waterloo South. Widened

corridors. The existing streetscape has a well established tree canopy, which will be maintained and increased over time widened pedestrian thoroughfares. Wellington Street, Raglan Street and Pitt Street will become Waterloo South's 'green' border the Village Green and connect the Estate to the Greater Sydney area through dedicated cycle paths, bus routes and The major east-west connectors through Waterloo South are the existing Raglan and Wellington streets. These streets

western side that will provide ease of pedestrian movements and a larger landscaped interface to the existing buildings experience. Pitt Street, which runs north-south along the eastern edge of Waterloo South, will have wider footpaths on the into the wider and more pedestrian friendly sidewalks which will contribute to a more comfortable and enjoyable pedestrian through building setbacks and tree replacement ratio strategies. Ground floor retail and services will be encouraged to spill

on the opposite side of Pitt Street.

- Local Street 20.2m
- Open Space (Parks and Setbacks)
- Social Corners

Legend

- George Street Activity Street (20 25m)
- Open Space (Parks and Setbacks)



COPE STREET METRO





ig. 8.3.1.101 Nev



Fig. 7.3.100 Cope Street Metro

Fig. 7.3.102 George Street, Lightrail Station, Sydney

An active, shared street connecting the Metro Quarter to Waterloo South

interface between the Metro Quarter and Village Green to the east and offers multiple bicycle parking and seating whilst the reduced vehicular speeds of the shared slow-street will prioritise pedestrian and cyclist safety. options along its length. The Metro Quarter's ground level retail and community uses will activate the streetscape, Running adjacent and parallel to the Metro Quarter, Cope Street Metro will be a highly active streetscape. It is the

GATEWAY PEDESTRIAN LINKS

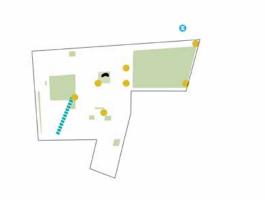


Fig. 7.3.103 Gateway Pedestrian Links

0m 100 A



Fig. 7.3.105 Passeig de St Joan, Barcelona

Active entry streetscapes promoting the culture, creativity and community of the Estate, while connecting the community to the neighbouring suburbs of Redfern and Waterloo

of breakout spaces and activation stations to attract community use throughout the day and evening. The Link is anchored George Street and the Metro Quarter. While the southern Gateway Pedestrian Link is a key thoroughfare, it contains a number cyclist safety by eliminating or restricting vehicular traffic to service and emergency vehicles only at reduced speeds. by community uses, and contributes to breakout spaces for these uses. A widened tree-lined path prioritises pedestrian and future Redfern with a future northern Gateway Link proposed for Waterloo North), and drawing pedestrian movements towards The Gateway Pedestrian Link is located on the edge of Waterloo South, connecting the community to Waterloo (and in the

- Legend
 Local shared street 20.2m
- Open Space (Parks and Setbacks)
- Community Buildings

- Gateway Pedestrian Link (Lane
- Open Space (Parks and Setbacks)Social Corners
- Community Buildings

LANEWAY CONNECTIONS

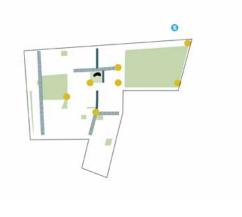


Fig. 7.3.106 North-South Neighbourhood Laneways $\frac{000}{100}$



J. 7.3.107 Sydney Laneways



Fig. 7.3.108 Bakery Lane, Brisbane

Re-establishing the fine grain network of historic Waterloo, creating a connected Waterloo South and unique experiences

The Neighbourhood Laneways, referencing the finer grain streetscape of historic Waterloo, are key contributors to the Accessible Local Movement Route and opportunities to express culture and creativity through landscape and public art. The Park Laneways, adjoining the Village Green and Waterloo Common, create separate pedestrian zones and expand their overall public open space. These laneways are also key contributors to social corners, providing locations for important visual nodes to assist with wayfinding, such as significant trees and public art installations.

The smaller east - west Pedestrian Laneways, referencing the finer grain streetscape of historic Waterloo, are dispersed throughout Waterloo South, providing local connections between key places. These laneways are often steeper than existing streets, running north – south, as they traverse the steeper topography to the east with a series of stairways and ramps. Street and public art, and unique pavement treatments, will provide a unique identity differentiating their fine grain, pedestrian only character from the other streets, lanes and links. A single avenue of smaller street trees, where possible, will provide greenery and shade.

Legend

- IIII Neighbourhood Laneways 9m
 Park Laneways 9m
- Park Laneways 9m
 Pedestrian Laneways 6m
- Open Space (Parks and Setbacks)
 Social Corners



Fig. 7.3.109 Pitt Street Mall, Sydney



INDICATIVE PAVEMENT AND KERB TYPES

ground plane which defines and unifies key areas within Waterloo South Creating an interesting and dynamic

Pavements and kerbs are crucial for defining key areas, creating a legible street hierarchy, wayfinding, and pedestrian and vehicular

robust, durable and easily maintained. Street pavements and material pavements must be consistent with the design objectives and key principles of the City of Sydney (CoS) Paving selection is conscious of ongoing maintenance and aims to be Streets Technical Specifications (2013) and Australian Standards.

in size and finish of recurring paving elements, brick and concrete, provide rhythm and interest along major north-south & east-west streets & laneways while highlighting key destinations throughout a special paving treatment of concrete unit pavers with brick feature In major public spaces such as the Village Green & Waterloo Common paving has been chosen to create a unique sense of place. Variations Waterloo South.



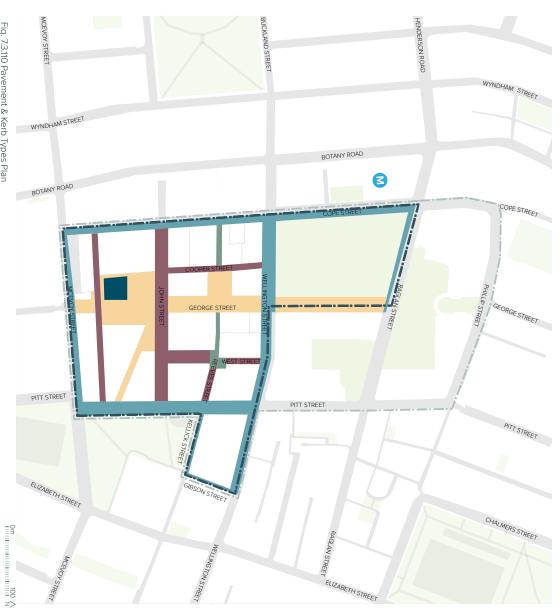


Fig. 7.3.110 Pavement & Kerb Types Plan

PAVEMENTS

- Along existing major local streets such as Pitt, Cope, Wellington & Raglan paving will be hard wearing to ensure durability in a high trafficked area.
- CoS concrete unit pavers are used mixed throughout laneways & pocket parks amongst the Estate.
- Laneways within Waterloo South will have their own unique locale defined by brick paving.

KERB AND KERB RAMPS

- Along existing major local streets such as Pitt, Cope, Wellington & Raglan in-situ concrete kerbs & ramps will be necessary to match existing.
- Laneways will have flush kerbs for ease of movement.
- The slow shared street (John St.) will require kerbs & selected unit paver. raised threshold. These will be finished to match the

All streets, lanes and plazas:

- Infill lids with adjacent pavement type only.
- expansion joints. Align service lids with pavement coursing and

DRIVEWAY CROSS OVERS

pedestrian priority. All driveway crossovers throughout Waterloo South must be treated with the adjacent pavement type to ensure

ensure delineation between road & parking lanes. must be treated in accordance with the CoS standards, to Parking bays along existing Pitt Street and Cope Street

P4

PAVING



Fig. 7.3.112 Hamlet Blue Brick Paving



Fig. 7.3.113 CoS Concrete Unit Paver with Concrete Setts, with Hamlet Blue Brick Banding



Fig. 7.3.114 Halmet Blue Brick with CoS Concrete Unit



Fig. 7.3.115 Hamlet Blue Brick with sandstone inlay and metal inlay



INDICATIVE FURNITURE AND URBAN ELEMENTS

sympathetic to the sites rich natural surrounds whilst also complimentary to the built and of furniture & urban elements, heritage Providing a consistent suite

characteristics and culture. Overall, the palette will improve the local aesthetic of the Estate and set a precedent for future development in Furniture and urban elements within Waterloo South aim to be aesthetically pleasing, functional and robust for residents and the the LGA. wider community. The amount and type of furniture in different areas purpose built elements in special / key areas that help identify the sites with City of Sydney palette (Sydney Street Codes 2013) as well as for that specific area. Public Domain furniture is to be in accordance will be determined by the expected rate of use and program identified

whilst also being sympathetic to the sites rich heritage. urban elements, complimentary to the built and natural surrounds Waterloo South will have a consistent palette or suite of furniture and

in key spaces such as the Village Green and Waterloo Common. This Along most north-south, east-west streets and laneways standard City of Sydney furniture shall be utilised for functionality, to meet the and visitors. Unique proposals for furniture & urban elements will be everyday needs of a community made up of residents, commuters will create a sense of arrival and defined program within areas for the

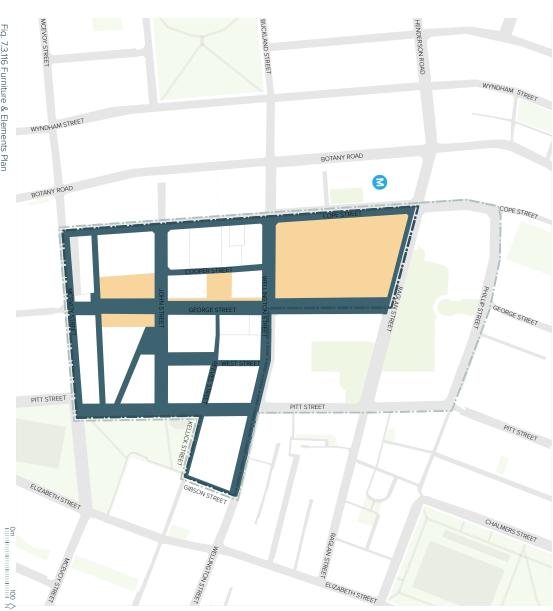


Fig. 7.3.116 Furniture & Elements Plan

Legend

Special areas: Unique palette to key spaces

City of Sydney furniture palette

REQUIRED ELEMENTS

dependant upon location, expected rate of use and elements which will fulfil different requirements across the Waterloo South will need a variety of public domain Precinct. Elements required in the public domain will be

EXISTING STREETS

Elements include: elements will be to the standard CoS furniture palette. Along existing major local streets such as Pitt, Cope, Wellington & Raglan any upgrades to furniture and urban

- Cycle Parking Seating
- Bins Bollards
- **Bus Shelters**
- Bubblers
- Parking Meters
- Signage

Tree Grates

LANEWAYS & SHARED STREETS

Elements include: elements will also be utilised in traffic calming measures. amenity through furniture and urban elements. These Laneways and shared streets will focus on pedestrian

- Seating
- Bollards Cycle Parking
- Bins
- Bubblers
- Signage specifically wayfinding

VILLAGE GREEN, WATERLOO COMMON & LANEWAYS

create a feeling of arrival and a sense of place. The urban elements will be unique and site specific to amenity for the community and guests of Waterloo South. Public places & select laneways will require tailored

Elements include:

- Seating
- Bins Bubblers
- BBQ's
- Shelters
- Signage specifically way finding & information
- Tree Grates

FURNITURE



Steel frame + recycled composite Fig. 7.3.117 Seat: Bronze Powdercoated Cube



Fig. 7.3.118 Seat: Formed Concrete Fig. 7.3.119 Timber Bench Seating





Fig. 7.3.120 Circular Seating

URBAN ELEMENTS



Fig. Powdercoated Aluminium 7.3.121 Bollard: Bronze



Fig. 7.3.122 Cycle Parking: Stainless Fig. 7.3.123 Bin: Recycled Aluminium Fig. 7.3.124 Tree Grate: Stainless Steel Steel



& Polished Stainless Steel & Powdercoated metropolis bronze



SHELTERS



Fig. 7.3.125 Picnic Table Seating Fig. 7.3.126 Dual Burner BBQ





INDICATIVE LIGHTING

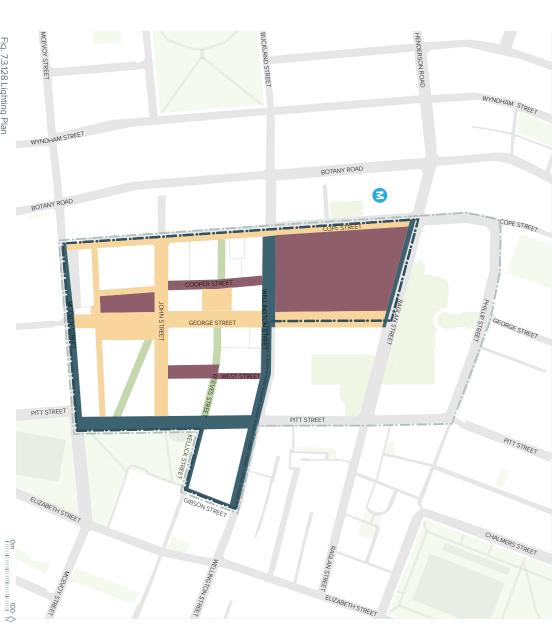
activity for residents and visitors places full of day and evening Creating safe, beautiful and vibrant

(2013), Sydney Lights Design Code (2015), Australian Standards, and the Sydney Streets Technical Specifications (2013). Lighting type, size and function will vary across Waterloo South. A Lighting within Waterloo South must complement the streetscape and create safe, functional streets for pedestrians & vehicular traffic. requirements outlined by the City of Sydney; Sydney Streets Code must be conscious to tie into the existing condition and adhere to day and evening activity for residents and visitors. Lighting design specific focus will be placed on creating safe, beautiful places for

streets such as Cope Street and George Street, the City of Sydney Bronze Smart Pole will be utilised. This new technology will provide Wellington & Raglan streets. In areas such as the Village Green & the LGA. Wall mounted or catenary lighting will be used along minor residents and guests a chance to connect to wifi and explore Waterloo which complement the palette of these key areas. On north-south Existing standard Energy Australia poles occur on Pitt, Cope, improving safety at night. laneways to create a unique condition and sense of place whilst also South whilst also setting a quality precedent for future development in Waterloo Common there will be distinctive street lighting features

Legend

Existing Ausgrid Lighting Pole



ELIZABETH STREET

Fig. 7.3.128 Lighting Plan

Special areas: Unique palette to place

Wall mounted / Catenary lighting

City of Sydney Lighting

EXISTING LIGHTING

match existing. Along existing major local streets such as Pitt, Cope, Wellington & Raglan any upgrades to lighting will be to

Lighting type:
 Ausgrid Lighting Pole

SMART ZONES

Lighting type: St.) also bounding each side of the major public spaces. as the southern east-west lane & shared slow street (John site links including George Street & Cope Street. As well Smart zones have been identified on major north-south

City of Sydney Bronze Smart Pole

& improve surveillance at night. Laneways across Waterloo South are identified for inclusion of unique lighting elements to create character

Lighting type:

- Catenary Lighting
 Wall Mounted Lighting
 Decorative Lighting

SPECIAL AREAS

programming. character of the space and be flexible to work with must facilitate safe night activation, contribute to the treatment in regards to lighting. Lighting in these places These major public spaces are identified for special

Lighting type:

- Catenary Lighting Wall Mounted Lighting
- City of Sydney Bronze Smart Pole
- Public art / Lighting Installations
- Decorative Lighting

EXISTING LIGHTING

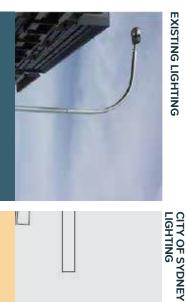


Fig. 7.3.129 Ausgrid Lighting Pole

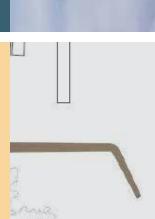


Fig. 7.3.130 City of Sydney Bronze Smart Pole

SPECIAL AREA



Fig. 7.3.131 Public Art / Lighting Installations with City of Sydney Lighting

LANES



Fig. 7.3.132 Decorative Lighting



Fig. 7.3.134 Wall Mounted Lighting

Fig. 7.3.133 Catenary Lighting





7.3.3 ECOLOGY AND BIODIVERSITY

Delivering a Waterloo South that is a sustainable, regenerative and environmentally responsible landscape

Ensuring that ecology and biodiversity is thoughtfully integrated into all aspects of public domain design, informed by City of Sydney's (CoS) Sustainable Sydney 2030 Vision.

Waterloo South will weave into the existing Green Grid within Sydney, offering renewed possibilities and uses for open space and providing opportunities to improve existing biodiversity connections in the region. Support for a diverse landscape will be driven by the inclusion of extensive native and exotic planting throughout the public domain and water sensitive urban design (MSUD) opportunities. Water storage, recycling and filtration is integrated throughout the Estate, with WSUD along George Street anchoring the initiative and reflecting Waterloo's historical water story.

Creating a considered urban forest for Waterloo South is of high priority. Increasing the canopy cover across Waterloo South and selecting a variety of native, seasonal street planting will complete the urban forest palette. Waterloo South will also integrate productive landscape initiatives throughout the public and communal open space in the form of community gardens, edible landscapes and roof gardens. These initiatives are opportunities for the landscape to reference Indigenous history and natural heritage through planting.

The design and approach to ecology and biodiversity has been developed in alignment with the City of Sydney's codes. These include, City of Sydney Street Tree Masterplan (2011), Urban Forest Strategy (2013), Liveable Green Network (2011), Landscape Code (2016) and the Urban Ecology Strategy Action Plan (2014).



WATER SENSITIVE URBAN DESIGN

and reuse, in alignment with the attitudes toward water preservation with consideration for the changing CoS vision for a sustainable city Waterloo South will be developed

overland flows and flood mitigation across the Estate. Planted tree and Waterloo Common, a detention basin will assist in treating the Waterloo South's water sensitive urban design (WSUD) strategy will efficiently utilise public space to treat and manage stormwater across retention and WSUD systems. to the filtration and treatment of stormwater before it enters other bio Well considered approaches to water storage and bio-retention pits throughout Waterloo South and along streetscapes will contribute aesthetic amenity for Waterloo South. Beneath the Village Green will work to mitigate flooding and offer cultural, environmental and flood plain and suffers from poor drainage during major rain events. the site. At present, the majority of Waterloo South is located within a

Refer to the separate report prepared by AECOM for more details.

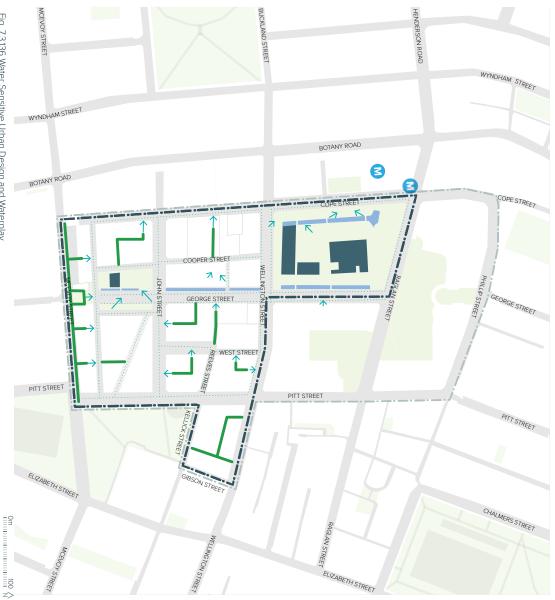


Fig. 7.3.136 Water Sensitive Urban Design and Waterplay

Legend

Detention Basin

\(\nabla\) Overland Flow Indicative Bypass

Water Sensitive Urban Design

Biofiltration Street Trees

Raingarden

WATER SENSITIVE URBAN DESIGN/ BIO-RETENTION



Fig. 7.3.137 Edinburgh Rain Gardens, Fitzroy, Melbourne



Fig. 7.3.138 Victoria Park, Sydney

Maximising opportunities to manage the water that enters Waterloo South using a range of Water Sensitive Urban Design initiatives

Across Waterloo South, a number of measures have been introduced to treat and manage stormwater before it enters major water systems. Bio-retention pits run the entire length of George Street, contributing to not only water treatment, but serving as a spine to the water story of Waterloo. In the Village Green, the bio-retention bodies flank the eastern and western edges, ensuring better filtration and treatment of water that runs into the site. To further support the WSUD strategy throughout streetscapes, bio-retention tree pits have been incorporated to assist with treating runoff volumes along pedestrian pathways in rainfall events.

WATERPLAY / WATER SENSITIVE URBAN DESIGN INTERPRETIVE PLAY



ig. 7.3.139 Sydney Park, Sydney



Fig. 7.3.140 Goyder Square, Palmerston Northern Territory

A robust and responsive water landscape that is considerate of the environment, and works to educate the next generation of Waterloo South's community through play

Traditional interpretations of waterplay will be plentiful and present within the public domain along with non traditional forms of WSUD as interpretive play. Along George Street, a linear stretch of bio-retention will run from the Village Green, to the edge of Waterloo Common in the south. This WSUD element will be complemented by a similar sized WSUD initiative throughout the Village Green, which will also be designed as informal play elements. Regular concrete crossing intervals will be integrated into the design of the WSUD, to allow for ease of access eastwest across Waterloo South.

WATER SENSITIVE URBAN DESIGN PLANTING



Fig. 7.3,142

Fig. 7.3.141 Juncus usitatus

Fig. 7.3.142 Carex appressa





Fig. 7.3.144 Ficinia nodosa

Fig. 7.3.143 Carex fascicularis

Using planting to add texture, increase biodiversity and contribute to the filtration of water on site

The WSUD planting palette proposes integration of flood tolerant species within the under storey mix, to further assist with stormwater management and pollutant filtration, serving as a resilient landscape strategy surviving through both flood events and short periods of drought.



URBAN FOREST AND BIODIVERSITY

and urban forest, strengthening existing network of green spaces planting strategies will connect the biodiversity locally and regionally Waterloo South's urban forest and

of three to one will be implemented to recover and increase cover in Where tree removal is necessary a targeted replenishment strategy natural components for a city. The urban forest scheme for Waterloo South will deliver aesthetic and functional benefits for the community, Trees and their associated canopy are one of the most important

a key factor in combating the impacts of the urban heat island effect. with the indicative concept masterplan giving the potential for 42 Aligning with the City of Sydney's vision, the urban forest within Waterloo South will provide a canopy coverage target of 30 percent environmental benefits of shaded hard scape is well documented as the surfaces of passage and movement across Waterloo South. The coverage offers respite from the heat of the summer sun and shades percent, increasing the existing coverage from 28.9 percent. Canopy

by the CoS, the biodiversity scheme for Waterloo South intends to the general arrangement of public open space aims to deliver a resilient urban ecosystem, through considered improve upon the existing network of flora and fauna. Waterloo South With reference to the Urban Ecology Strategic Action Plan produced planting, approaches to water management, edible landscape and

stingless bees will also be a priority. With the growing education on native birds, reptiles and mammals. Increasing the presence of native creating areas of habitat and protection for the local fauna, particularly the decline of this critical species, providing an assortment of colourful To develop a liveable Estate, there will be an increased focus on Callistemons, Eucalyptus trees and Banksias. flowering native plants is vital. These may include a selection of



LegendProp



EXISTING TREES

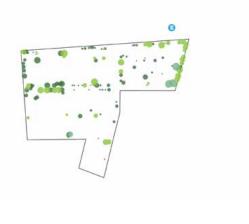


Fig. 7.3.149 Existing Trees Retained

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Fig. 7.3.150 Proposed Trees

Existing significant trees are an important asset and contribute to Waterloo South's existing character. It is important to maintain their presence while strengthening urban forest and biodiversity connections

and Wellington have been prioritised to create public spaces. Other civic trees opposite the Metro Quarter and throughout Waterloo Common have also been Significant street trees along existing local streets particularly on the corner of Pitt domain while preserving and building upon the existing urban forest character of Eucalypts (Eucalyptus microcorys) have been prioritised to help shape the public significant trees such as signature figs (Ficus microcarpa and Ficus rubiginosa) and Across Waterloo South, with a focus on high and moderate value trees, retention of pocket parks and the major parks, Village Green and Waterloo Common, have retained, with the public domain complementing their retention. Building setbacks

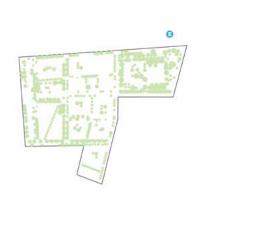
Medium Value Retained High Value Retained Legend

Proposed Tree Legend retained where possible.

been specifically located to ensure that a large percentage of high value trees are

PROPOSED TREES

UNDERSTOREY



The presence of existing valuable trees will be enhanced by the tree replenishment scheme, with an increase in canopy coverage

shaped as green places, providing adequate shade coverage during summer in the existing canopy coverage and actual trees for both the public and private domain. Through tree replenishment the streetscapes and public spaces will be Waterloo South's biodiversity. The tree replenishment strategy ensures an increase shade amenity to help reduce the urban heat island effect and strengthening Waterloo South will increase its existing canopy coverage from 28.9% to a target of 30% and potential of 42 percent from the indicative concept masterplan, providing

months, improving amenity and creating comfortable spaces to live, work and play.

Fig. 7.3.151 Understorey

0m100 ∧

0m100 ∧

Using an assortment of understory planting initiatives to bring the biodiversity grid to street level

productive landscape strategies, where WSUD including flood tolerant species and elements of bush tucker. Seasonal planting will provide edible qualities such as flowers, roots and seeds. a variety of indigenous, native and exotics with consideration of WSUD and Waterloo South, providing for a safe and healthy environment. Species include increasing local biodiversity and avoiding obstruction of sight lines across streetscape and public spaces, provide habitat within an urban environment Low growing under storey species have been selected to further define the





INDICATIVE STREET TREE PLANTING

street tree palette a colourful, textural and seasonal Diversifying the streetscape through

Street tree species have been selected to provide a mix of species, native and exotic, evergreen and deciduous, to encourage diversity whilst providing adequate shade amenity and contributing to the target 30% canopy coverage.

Street, local streets and in major public spaces. Wellington and Raglan streets will become Waterloo South's green street corridors with new strengthening the Estate's biodiversity connections. landscaped setbacks, pocket parks and social corners. These streets proposed trees set amongst signature existing trees retained within the streetscape typologies. Large trees will be specified along George will harness Waterloo's existing urban forest characteristics while Across Waterloo South tree planting will help characterise and define

Large trees will mediate the scale of the built form, frame views along major pedestrian paths and provide much needed shade in open areas. A predominantly native evergreen palette will define Waterloo fine grain of laneways in Waterloo South. boast a variety of seasonal colour, texture and form to compliment the the site will be punctuated by a variety of small trees. These trees will will diversify the street edges and aid way finding. Laneways across South with variations in colour and form. Occasional seasonal planting

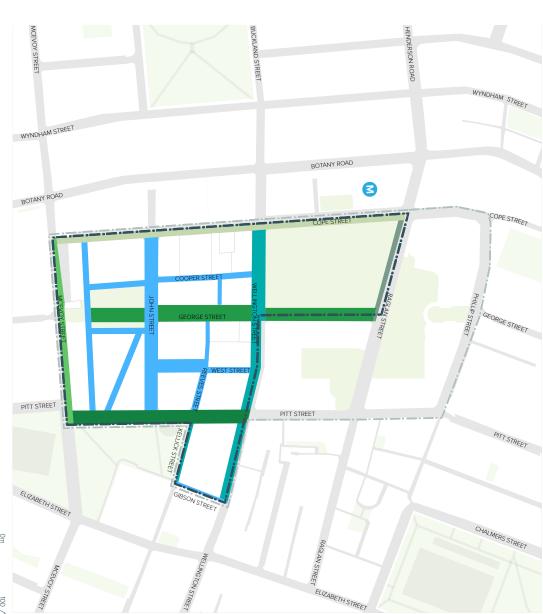


Fig. 7.3.152 Street Tree Diagram

Legend

Cope Street Raglan Street Pitt Street

Phillip Street Laneways

McEvoy Street

Wellington Street





INDICATIVE PUBLIC SPACE PLANTING

Providing a rich palette of trees and understory planting to diversify and define Waterloo South's public spaces

Across Waterloo South there are four tree typologies that will be introduced to help define the public domain. Civic trees are considered icons for way finding and location within certain public areas. Many of the existing fig trees are considered civic, encompassing Waterloo's existing character and will be complemented by the seasonal colours of the Jacarandas and other seasonal planting.

Larger trees will outline the Village Green's edges and run the length of Georige Street. Medium size trees will be distributed across the majority of Waterloo South. Native species, such as the Melaleuca quinquenervia, will run alongside the seasonal colours of Pyrus and Robina. Smaller trees will be co-located with more intimate spaces and add colours and textures to their surrounds.

Under storey planting will be characterised by a predominantly native palette. Locations will include major open spaces, tree pits and in Water Sensitive Urban Design initiatives such as bio-retention basins. The under storey palette supports the intention to create edible landscapes. Plants include those native to the Sydney region and which have historically been used for bush tucker.

BUCKLAND STREET MCEVOY STREET HENDERSON ROAD Fig. 7.3.186 Tree Hierarchy WYNDHAM STREET WYNDHAM STREET BOTANY ROAD BOTANY ROAD COOPER STREET GEORGE STREET PITT STREET PITT STREET PITT STREET ELIZABETH STREET CHALMERS STREET 0m 100 N AGLAN STREET ELIZABETH STREET

LEGEND

Civic Trees (Extra Large)

Note: All Trees with outlines are existing specimens to

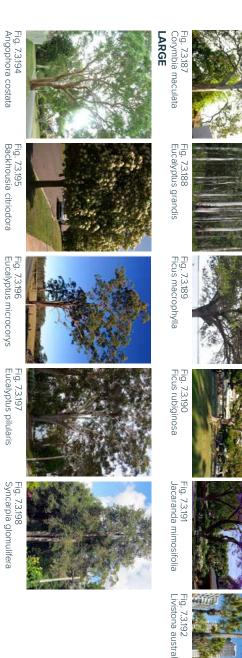
be retained.

Medium Trees

Small Trees

Large Trees

APPENDIX 7.3 PUBLIC DOMAIN







SMALL TREES



Fig. 7.3.215 Prunus persica

Fig. 7.3.216 Prunus persica Fig. 7.3.217 Pyrus var Nectarine calleryana 'Chanticleer'

Fig. 7.3.218 Tristaniopsis laurina 'Luscious'



Fig. 7.3.219 Ulmus parvifolia 'Todd'

UNDERSTOREY SHRUBS



Anigozanthos manglesii Fig. 7.3.221 Asplenium australasicum

Fig. 7.3.223 Banksia ericifolia

Fig. 7.3.224 Banksia integrifolia prostrate

Fig. 7.3.225 Banksia spinulosa

Fig. 7.3.226 Baumea articulata

Fig. 7.3.220



Fig. 7.3.222 Aspidistra elatior



















Fig. 7.3.227 Callistemon viminalis 'Little John'



Fig. 7.3.228 Fig. 7.3.229 Fig. 7.3.230 Callistemon 'White Anzac' Carpobrotus glaucescens Cymbopogon citratus

Fig. 7.3.231 Cymbopogon obtectus

Fig. 7.3.232 Dianella caerulea

Fig. 7.3.233 Dietes robinsoniana

Fig. 7.3.234 Eleocharis sphacelata

Fig. 7.3.235 Elettaria cardamomum









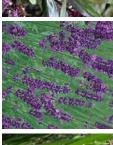




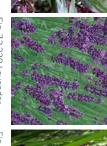




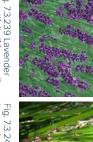


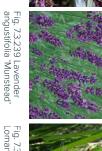














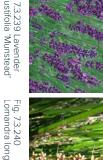












Fig. 7.3.243 Raphiolepis indica 'Oriental Pearl'

Fig. 7.3.237 Goodenia ovata

Fig. 7.3.238 Hebe inspiration

UNDERSTOREY SHRUBS





PRODUCTIVE LANDSCAPE

Landscape use is maximised through the inclusion and distribution of productive landscape initiatives

The principle of a productive landscape is to encourage design initiatives moving into the future of regenerative urban design. With a growing population, opportunities are maximised to localise food production. Beyond simple agricultural values, the productive landscape initiative has a variety of community benefits, all of which are highly valuable for the Estate's community.

Across Waterloo South, a number of opportunities have been integrated to strengthen productive landscape principles into the design. Three major ideas have been explored; community gardens / farms, edible landscapes and communal courtyards and rooftop gardens. All of these opportunities are a response to create community, reference and educate about culture and promote an awareness of ecology and sustainability. The productive landscape initiative is an opportunity to reflect Waterloo's Indigenous history using native flora especially planting associated with bush tucker.



Fig. 7.3.257 Beacons Food Forest, Washington



Fig. 7.3.258 Boston Rooftop Farms, Boston



Fig. 7.3.259. Brooklyn Grange, New York City

COMMUNITY GARDENS PROPOSED LOCATIONS



Fig. 7.3.260 Community Gardens

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Fig. 7.3.261 Edible Landscapes

gardens and urban farms Promoting food security, climate change mitigation and the benefits of a healthy lifestyle, through community organised

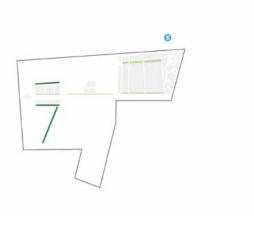
the Estate's neighbourhoods. community gardens/farms that cater for all members of the community throughout outcome of these initiatives. For Waterloo South, there is a focus on delivering two Garden Guidelines developed to ensure a safe, educational and productive Community gardens are encouraged and promoted by the CoS, with the Community

for residents living in all areas of the Estate community gardens. The distribution of these parks also provides ease of access South's productive landscape initiatives will be provided to the community as major contributors to the productive landscape initiative. A portion of Waterloo The community gardens in the Village Green and Waterloo Common are the two

Legend Community Garden Waterloo Commons Community Garden Village Green

 Productive Laneways Pedestrian Boulevard Water Sensitive Urban Design

EDIBLE LANDSCAPES PROPOSED LOCATIONS



Developing a tapestry of edible landscapes throughout Waterloo South to reference Indigenous bush tucker and educate the community on the possibilities of sustainable living

species, such as Syzygium spp, Backhousia citriodora and Dianella spp, which provide edible flowers, roots and seeds. Along with bush tucker species, many edible species into the selected planting palettes include integration of bush tucker qualities that contribute to the productive landscape initiatives. The integration of It is intended that a target of 30% of plants within the public domain provide edible excellent nectar source for honeybees native blooming species, such as Angophora costata and Banksia spp., provide an

ROOFTOP GARDENS PROPOSED LOCATIONS

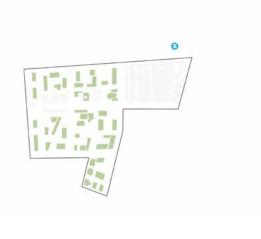


Fig. 7.3.262 Rooftop Gardens

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Rooftop Gardens complete the productive landscape movement, contributing to the amenity of the vertical village

gardens form part of the vertical villages that are encouraged for a range of building typologies to create smaller sub-communities in larger buildings or developments harvesting produce, the potential of this movement is widespread. The rooftop Waterloo South. From small private rooftop gardens, to large rooftop plots for The productive landscape initiative will include a rooftop planting scheme across

Rooftop Gardens

INDICATIVE PRODUCTIVE LANDSCAPE PLANTING PALETTE

of native and exotic edible encourage community living plants into the landscape for productive purposes and to Including a wide variety

and shrubs, and seasonal planting, that completes the palette is a selection of non-Indigenous perennial herbs, fruiting trees throughout Waterloo South. or for structures such as woven baskets. Alongside this, there under storey and edible landscapes / bush tucker, to ensure all endemic to the region. A palette has been created for trees developed to reflect Indigenous and native planting that is nature, others are plants commonly used for medicinal needs some plants on the list are included because of their edible aspects of the productive landscape initiative are met. Whilst The productive landscape planting palette has

BUSH TUCKER: TREES

Fig. 7.3.263 Acmena smithii

Fig. 7.3.264 Angophora costata



Fig. 7.3.265 Backhousia citriodora





Fig. 7.3.266 Banksia integrifolia



Fig. 7.3.267 Diploglottis australis

Fig. 7.3.268 Livistona australis



Use: Edible growing bud



Use: Flowers to support honey production

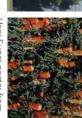
Use: Leaves for teas, fragrant oils, healing





Fig. 7.3.270 Syzygium paniculatum







Use: Sugar nectar from Banksia blossoms

Use: Small, edible fruits

Fig. 7.3.275 honey production Use: Flowers to support

Fig. 7.3.276 Lomandra longifolia

Fig. 7.3.277







Use: Sugar nectar from Banskia blossoms









Use: Sugar nectar from Banskia blossoms







Use: Small, edible fruits



Use: Fronds for basket weaving, edible berries



Use: Fronds for weaving



Use: Small, edible flowers

PRODUCTIVE LANDSCAPE PALETTE TABLE

structures and art-making. for native plants; for nectar, tea making or use of bark for opportunities, with particular focus on Indigenous uses selected range offers a variety of productive landscape the Eastern Banskia Scrub of the Waterloo area, the Drawing from the palette of species typically found in

UNDER STOREY

used by Indigenous people for weaving, structure or as a food source. All species are suitable for the area. The suggested species draws on the plants commonly

BUSH TUCKER / EDIBLE LANDSCAPES

Edible landscape and bush tucker opportunities will be integrated into all areas of the Estate. The species sun and shade conditions. selected are endemic to the region and can tolerate both

EDIBLE LANDSCAPES: TREES

Fig. 7.3.278 Cirtus lemon x reticulata Fig. 7.3.279 Citrus x meyeri















Use: Edible Fruit



Use: Edible Fruit

Fig. 7.3.284 Prunus persica

Use: Edible Fruit

Use: Edible Fruit

Use: Edible Fruit

Use: Edible Fruit

Fig. 7.3.285 Prunus persica var. Nectarine



Use: Edible Fruit

EDIBLE LANDSCAPE: UNDER STOREY

Fig. 7.3.287

Fig. 7.3.288 Hebe

Fig. 7.3.291 Thyme vulgaris

Use: Fragrant leaves, edible seedpods

honey production

Use: Flowers to support



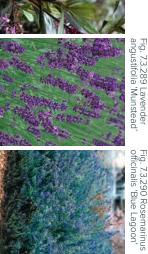






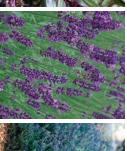
























Use: Edible, fragrant

leaves



7.3.4 PUBLIC ART, SIGNAGE AND WAY FINDING

Public art is a creative, inclusive and empowering method of engaging and representing Waterloo's community

Public art is an essential component in developing the cultural and creative character of Waterloo South and the Estate. Public art provides the capacity to recognise the sites Indigenous culture and heritage through cultural expression. Expressions of public art can take a variety of forms, from way finding methods, pavement treatments and decoration, installation, temporary works and events, street art and art as function (seating, lighting). Public art can diversify the landscape, promote a colourful and creative community and improve connections between the diverse community within the Estate.

Waterloo is a place rich in cultural history and heritage. Originally, the land was a series of swamps and marshes, with the Waterloo Swamp dominating much of the Waterloo and Zetland region. Post European settlement, the region began to evolve. Waterloo underwent mass changes in character, emerging as an industrial place for milling, tanning, fell mongering, wool washing, brewing and soap making. Eventually, the area transformed from being purely industrial to residential. By the 1980s, the Estate was one of the largest public housing precincts in New South Wales. Today, the community of Waterloo is culturally diverse, rich in Indigenous representation and transforming into the future. Whilst there is an obvious focus on using public art as a mechanism to represent the past, it is also a method of exploring the present and the transition towards the culture and character of Waterloo in the future.

The art for Waterloo South goes beyond being a placemaking, way finding and aesthetic initiative. Public art has the capacity to engage the community by allowing them to contribute to the visual landscape of the place.

The strategy for public art, signage and way finding has been developed in alignment with the following City of Sydney Codes; Creative City, Cultural Policy and Action Plan (2014 - 2024), Legible Sydney Way finding Strategy (2012) and the City Art Public Art Strategy (2016), as well as the Waterloo South Public Art Plan, Milne and Stonehous (2020).



NARRATIVE

Public art provides the opportunity to recognise the Indigenous culture and heritage present within the Estate

The Estate's evolution from a wetland of diverse flora and fauna, to an industrial precinct and finally a key suburb on the outskirts of Central Sydney, has resulted in an area rich in heritage and culture.

The adaptability and resilience of Waterloo are key characteristics of defining the Estate's spirit of place, sense of belonging and celebration of cultural diversity.

Waterloo South's Public Art Plan is driven by Waterloo's sense of place and it's defining characteristics, driving identity, a sense of belonging, a value for the land and a celebration of the cultural diversity of the community

Waterloo South's public art curatorial narrative will reinforce the sites past, present and future, whilst building upon the idea of public space as outdoor 'rooms' and connecting the community with their neighbourhood.

Public art will examine connections between community and the Estate alongside the use of public art as a method of way finding, community collaboration and the establishment of Waterloo South as a strong cultural domain within the Greater Sydney region.

Refer to the Waterloo South Public Art Plan prepared by Milne and Stonehouse for further information.



Fig. 7.3.294 Street Art, Redfern



Fig. 7.3.295 Lata 65, Portugal



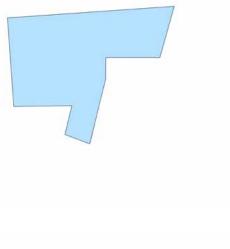
Fig. 7.3.296 Kopupaka Reserve in Te Hauauru Park, Auckland

PRINCIPLES

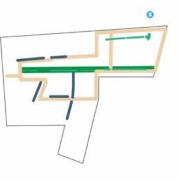
SITE SPECIFICITY

ACTIVATED PUBLIC DOMAIN AND STREETSCAPE EXCELLENCE, INTEGRITY AND SUSTAINABILITY CULTURAL COMMUNITY





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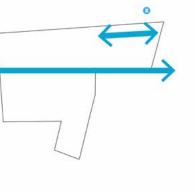




Fig. 7.3.297 Art and Site

0m 100 \

Fig. 7.3.298 Art and Community

Offering the streetscape and public domain as a canvas for interpretation and to enhance

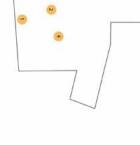
community social connections

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Fig. 7.3.299 Art and Environment

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Fig. 7.3.300 Art and Environment



Creating an embedded approach through durable and ecologically sustainable public art

contribute to bringing spaces to life and transforming them from day to night, creating vibrant spaces for people to live, work of public art as a cultural presence and community builder. the communities experience at eye level. Public art will interpretation, and enhance social connections, strengthening The public domain and streetscape will offer a canvas for arrangement provides an opportunity to explore the possibilities Waterloo South's fine grain street grid and open space

art form giving a voice and opportunity to the local community need for trans-generational thinking when expressing culture in the public art plan will look to the future, acknowledging the city Sydney, to its eventual emergence as a home to many an area rich in Indigenous culture, to an industrial hub for inner will focus on representing the characteristic of Waterloo from

and play.

nationalities in the present day. But perhaps most importantly

Indigenous people. Much of the public art throughout the site The Waterloo area is rich in heritage, including that of the Recognising the site's Aboriginal and 'making' history. Celebrating the stories of Waterloo

through art

and its artists.

Waterloo South, significantly along George Street is where art and environment will seek to express the connection between water story. Inclusion of numerous WSUD initiatives across sustainability particularly connected with Waterloo South's sustainable whilst initiating conversation and education around Public art will be robust, of high quality and ecologically sustainability, nature and built environment. Waterloo's environmental heritage, practices and possibilities. The public art plan for Waterloo South recognises and interprets

Integrated public art projects that recognise existing and future communities

equal and collaborative community. in form and subject will contribute to the creation of a supportive between community members and the artworks. This diversity to the Estate will emerge providing opportunities to build apparent through the moments of interaction and participation knowledge and skills. The quality of this engagement will be Through public art, a sense of place and community unique The Estate community is culturally complex and multi- cultural

Legend Waterloo South







 Community Spaces Waterloo Metro Hub



PUBLIC ART OPPORTUNITIES

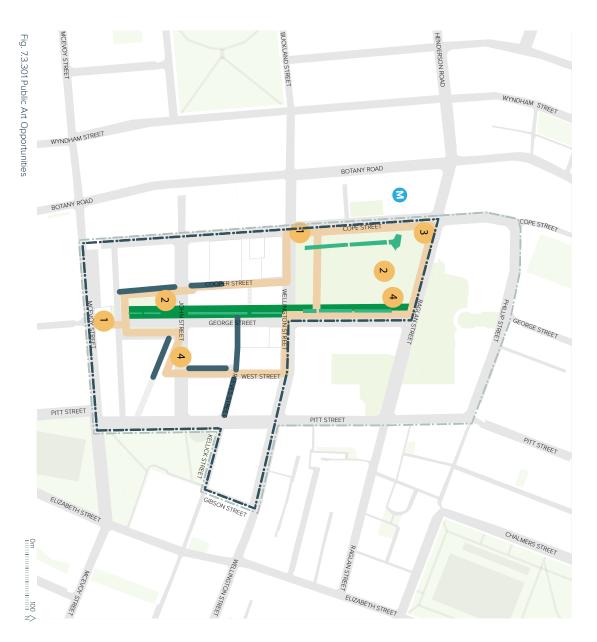
Ensuring all areas of Waterloo South explore the potential of public art as a mechanism for cultural expression, collaboration and wayfinding

Across Waterloo South, there are many opportunities for public art to work as an important component of the urban landscape. The primary locations for public art are all primary public spaces, streets, laneways and community hubs.

The opportunities for public art are also maximised by understanding the breadth of public art that is available. Sculpture, lighting, temporary and fixed art, street art, murals, performance or events, and pavement / facade art are just a small assortment of the categories of public art possibilities.

As a significant aspect and voice for the Estate, the Waterloo South Public Art Plan aims to explore the contribution of these art forms to the canvas of the Estate, reflecting culture and community life, whilst strengthening the community's connection to Waterloo at eye level, contributing to an activated public domain that engages the community and creates a welcoming and distinct place.

Refer to the Waterloo South Public Art Plan prepared by Milne and Stonehouse for further information.



Art Lanes
Bio Retention
1 Gateways
2 Major Parks
3 Waterloo Metro Hub

4. Community Spaces

Legend

Accessible Local Movement Route

PUBLIC ART AND WAYFINDING

and fun to encourage pedestrian guidance tool that is informative movement throughout Waterloo Using public art as a public domain

can be used as a mechanism for delivering unique visual modes, that and unique elements to an otherwise typical public domain. Public art sub-spaces easily identifiable and communicable. the potential to use pieces of public art in larger open spaces to make can be translated and associated with particular locations. There is Publicart is often associated with way finding, as it delivers recognisable

pavement and facades to define direction and destination. Having Public art as a way finding measure also includes the treatment of night time street scape and provide simple methods of direction. Using lighting systems as a component of public art can diversify the encourage the use of spaces and provide a safe night environment public art that responds to the conditions of both day and night, can

EQUAL ACCESS AND PUBLIC ART



Integrating new technologies and using art and wayfinding diversity to deliver a public domain that is easy to navigate for all members of the community

Creating and improving community connections through public art



Fig. 7.3.303 Southbank Crossing, London



Carringbar



an inviting experience through Waterloo South while illuminating Waterloo's unique the role of a way finding measure, visual locator and reflector of culture providing and responsive to the needs of the community. Along this route, public art plays residents and will feature public art that is both aesthetically pleasing, engaging The Accessible Local Movement Route will provide an accessible route for all

between the diverse communities within the Estate. landscape, promote a colourful and creative community, and improve connections potential of public art and signage can also be explored. Public art can diversify the treatments of pavement, lighting arrangements and street art or murals. The Public art methods can be important in easy way finding, including selective

may experience difficulty moving through Waterloo South.

with colour and sensory stimulations introduced to ease way finding for those who audible technologies. Public art has an important role in providing equitable access, signalised intersections could be improved with the introduction of digital and accessibility for all groups. Traditional measures including tactile locations and In considering this, all signage and way finding measures will work to improve Waterloo South will be home to people of varied nationality, ability and age.

character and heritage.

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WAYFINDING AND SIGNAGE

Delivering a legible Waterloo South that encourages pedestrian movement, with comfort and ease

A holistic approach to future way finding and signage will aim to contribute to the development of an accessible and pedestrian friendly public domain through the implementation of contemporary strategies.

All wayfinding and signage will be consistent with the design objectives and key principles of the City of Sydney Legible Way finding Strategy (2012). The strategy will ensure that Waterloo South is easily navigated by locals and tourists alike, using clear and consistent way finding measures throughout.

Simplified and legible street scapes have economic benefits, with retailers benefiting from regular pedestrian traffic. Having a legible street scape extends to all people, with the strategies implemented reflecting the needs of all community members, including those with disabilities and impairments. Signage, defined pathways and crossing points are all important components of the public domain. Increased pedestrian participation is a positive contributing factor to a safe public domain.

Signage location and distribution will be balanced across Waterloo South, whilst also applying consistency in form and style for ease of legibility. Regulating the signage of commerce in the public domain will deliver a consistent dialogue between the community and Waterloo South's commercial operators.



Fig. 7.3.306 City of Sydney Legible Sydney



Fig. 7.3.307 City of Sydney Legible Sydney

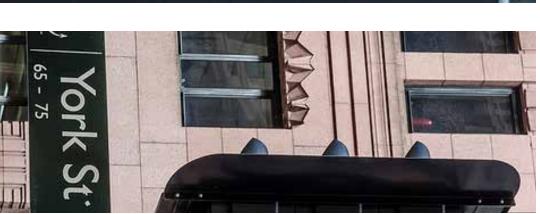


Fig. 7.3.308 City of Sydney Legible Sydney

