Attachment B7(b)

Urban Design and Public Domain Study
Part 2 – Waterloo Estate (South) – Land and
Housing Corporation

3.0 APPROACH

PLANNING PROPOSAL REQUIREMENT

the NSW Government Architect Better Placed strategy. The built form should be developed in line with the design process described in Urban Design Report

re-use options A full review of design options, including redevelopment, renovation and adaptive Chapter 3.0 Appendix 7.2

SSP STUDY REQUIREMENT

Urban Design

2.5 Prepare an options analysis that examines a variety of appropriate options for the distribution of land use and building bulk in relation to and opportunities, and have been used to inform the final proposal. an assessment of how the options respond to the identified constraints the layout of the public domain. Document the various options including

> Appendix 7.2 Chapter 3.0

ADDRESSED IN

Appendix 7.10

great urban place that delivers on the

The renewal of Waterloo South into a

part of Waterloo South's transformation Waterloo vision and objectives is a key

that requires a unique, balanced and

ADDRESSED IN

evidence based approach

of the Estate that will have the least impact on existing residents whilst allowing illustrate the vision and design principles for Waterloo South. A holistic approach key public domain infrastructure to be delivered early. Waterloo Central and Waterloo North provides the opportunity to renew areas the Estate into three stages, with Waterloo South being delivered ahead of that considered the renewal of the overall Estate. The staging of planning for to the Estate was used during options testing to develop a Preferred Masterplan options that respond to key design drivers and explore different approaches to directions to be tested against the project vision and principles, to concept plan thinking, where unique scenarios and ideas are investigated, through strategic approach to the development of an Indicative Concept Proposal for Waterloo South. This informs every stage of the masterplan process from early design This chapter provides an overview of the balanced and evidence based

based on: The approach to the renewal of Waterloo South into a great urban place is

- An integrated multidisciplinary project team, with project specific skills broader purpose, to benefit our cities and neighbourhoods and experience, passionate about making a difference and being part of a
- A diverse project team including experienced and emerging multi disciplined thought leadership from an Aboriginal heritage background to support cultural diversity and designers and technical specialists, with an emphasis on attracting those
- Leading best practice methodology with an evidence based and public domain led approach
- benchmarking and review An iterative design process of analysis, propositions, evaluation,
- innovation, recognising the interrelationship between different technical (TIWGs) that provide an evidence base for decision making and space for Technical planning studies and Technical and Innovation Working Groups
- Placemaking best practice in place based integrated urban design
- Engagement with stakeholders and the community
- Panels Governance comprised of collaborative advisory groups and Design Review

URBAN DESIGN ADDRESSED IN



WWW 3.1 METHODOLOGY AND DESIGN PROCESS

and community, to ensure best practice the unique qualities of the project, place embedded in the process design excellence approaches are masterplan process that is tailored to A methodology bespoke to the public domain led and evidence based

AN INTEGRATED AND INNOVATIVE APPROACH

The methodology for the Waterloo Estate is an Integrated Working Model that

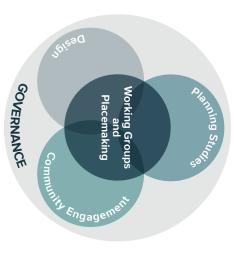


Fig. 3.1.1 Integrated working model

places and to establish a unique set of benchmarks appropriate to Waterloo. analysis at every stage to understand the elements that make up great urban Planning studies comprised of global, best-practice case-study research and

development of the Waterloo South Indicative Concept Proposal. to a preferred option, to provide feedback on key issues and inform the Stakeholder and community engagement throughout the process, from establishing a vision, through baseline summaries and options testing

> review of proposals for technical performance. consultant studies to establish baselines, opportunities for innovation, and based, exploring a range of propositions and scenarios, including technical A Design Process that is public domain led, unique, balanced and evidence

different options and guide design development. Engagement feedback and Design Process, to measure the performance of Design Working Groups that synthesise the Planning Studies, Community

Placemaking framework and strategy, using case study analysis, to develop a set of Place Performance Measures specifically for Waterloo to aid decision making and support a balanced and evidence based approach

a design excellence pathway approach provide an ongoing review at each stage of the process, as an integral part of Governance comprised of Design Review Panels and advisory groups that

PROJECT FRAMEWORK

client, through stakeholder and community engagement. and the formation of the Project Vision, Objectives and Principles with the The methodology commences with the establishment of the Project Proposition

Objectives, sets the Project Framework. This becomes the evidence base for provides a baseline that, with the Project Proposition, Vision Principles and An analysis of the context including specialist technical consultant studies the design work and gather feedback five main themes which are used throughout the design process to present the design process and the organisation of the many technical streams into

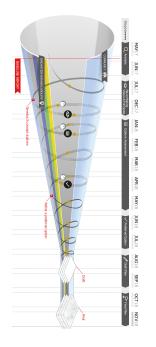


Fig. 3.1.2 The masterplan design process Legend:



Options testing

Preferred option

 Stakeholders' reviews and workshops Housing Diversity & Liveability

Technical and Innovation Working Groups (TIWGs): Sustainability & Infrastructure Environment & Open Space Transport, Streets & Connectivity
Economics, Retail, Services & Arts/Culture

The methodology is a unique, balanced and evidence based approach to the development of the Waterloo South Indicative Concept Proposal comprised of the Project Framework which establishes a base and the Design Process that subsequently follows

DESIGN PROCESS

The design process that follows integrates propositions with technical inputs, testing, workshops, community and stakeholder engagement, and design reviews in an iterative process that, along with analysis and performance measures, guides the development from early propositions, to plausible options to be explored and tested, to a preferred option.

Technical and Innovation Working Groups (TIWGs) of different consultants explore key cross-disciplinary themes, to investigate opportunities for innovation and interrogate the Baseline Analysis, whilst ongoing Placemaking and Aboriginal cultural studies continue to further augment and refine the design approach.

The Baseline Analysis presents opportunities and challenges that, along with the Placemaking Framework, results in Key Design Insights and early design ideas to guide development of the design thinking. The Placemaking Framework is used to tell the special story of the place and the community, so that the design process recognises and strengthens the existing attributes that makes them unique and special, in a balanced and evidence based approach that is unique to the Estate.

Early design thinking (refer to Appendix 7.2) tests various scenarios and combinations of parameters to explore the resultant outcomes in terms of spatial organisation, built form responses and urban character. Uniquely different approaches are tested to their limits in order to understand the place characteristics, opportunities and challenges that emerge from each.

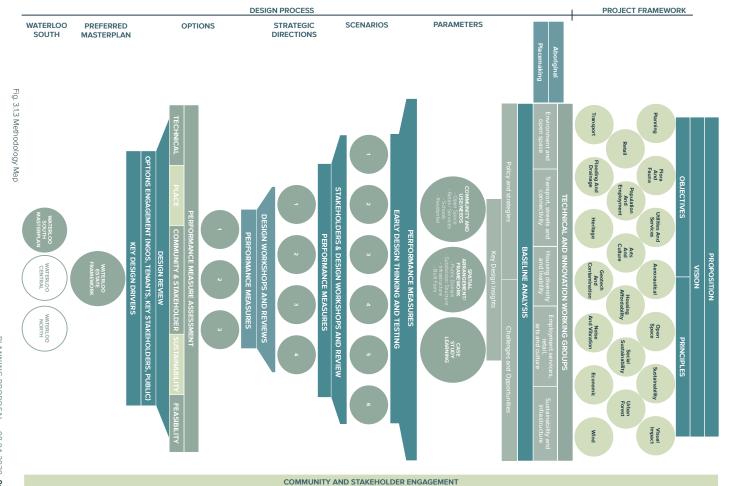
Stakeholder and Design Workshops, and reviews with Project Working Groups and the Government Architect of NSW, provides critical analysis and feedback in an ongoing governance model. Place Performance Measures, derived from ongoing Case Study

analysis (refer to Appendix 76) integrated with the Placemaking Strategy, is used to measure the performance of Scenarios against unique Place Performance Measures established for the Estate. The analysis, feedback and Performance Measures are part of an iterative design process that guides the synthesis of early design thinking into the more definitive concepts of the Strategic Directions. These begin to illustrate distinct and uniquely different approaches to delivering on the Waterloo Estate vision and objectives.

Further Stakeholder and Design Workshops and comparisons against the Performance Measures continue to refine the Strategic Directions into a number of unique and plausible Concept Options that have different place characteristics, built form responses and urban character. Key Design Drivers, specific to the Estate, are defined in order to inform the masterplan and build upon the unique qualities revealed through the design process of context analysis, visioning, early design thinking, placemaking, options testing, case studies and performance measures.

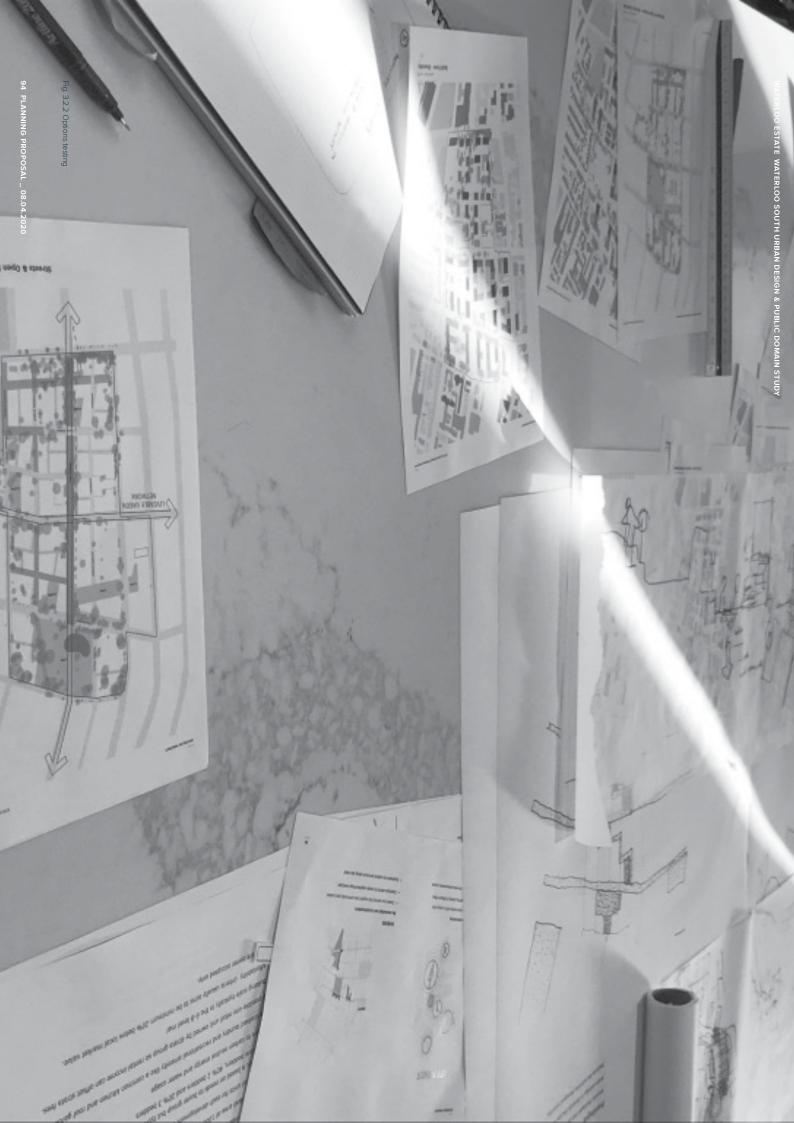
A comprehensive evaluation of the Concept Options against the Place Performance Measures and Key Design Drivers, analysis by stakeholders and design review panels, and engagement with the community and key stakeholders, establishes the elements of the Concept Options to be progressed into a Preferred Masterplan Consideration of the impact to existing residents and early delivery of public infrastructure for the Estate established a three stage approach to the renewal of the Estate, with Waterloo South to be delivered ahead of Waterloo Central and Waterloo North.

This represents a bespoke, balanced and evidence based approach that integrates best practice public domain led and evidence based design excellence approaches into a process unique to the development of the Indicative Concept Proposal for Waterloo South.



3.2 MASTERPLAN PROCESS

| 2.1 | Baseline and Context Analysis |
|----------|-------------------------------------|
| 2.2 | Visioning and Engagement |
| 23 | Placemaking and Case Study Analysis |
| .2.4 | Early Design Thinking and Scenarios |
| 2.5 | Strategic Directions |
| .2.6 | Concept Plan Options |
| .2.7 | Options Testing |
| № | Preferred Masterplan 2019 |
| 2.9 | City of Sydney Alternate Plan |
| 2.10 | Consultation with City of Sydney |
| 2.11 | Kit of Parts (Non-Residential Uses) |
| 212 | Features |



3.2.1 BASELINE AND CONTEXT ANALYSIS

The masterplan process for Waterloo South has been evidence based, technically integrated, iterative, consultative, and benchmarked against global best practice case studies and Place Performance Measures developed uniquely for the Estate

The Estate is home to many people from different walks of life, each with a connection to a place that is distinctive in its topography, landscape, extensive social housing and strong sense of community, it has evolved over time and is comprised of many layers. The first step in the masterplan process has been to explore and analyse those social and physical layers to understand the unique qualities of the people and place.

Waterloo has a complex cultural identity, being an important place for Aboriginal people as the traditional homeland of the Gadigal people, and a significant place for many other Indigenous people through more recent, cultural and political, events and movements. It is highly multicultural, with 58% of residents born overseas compared to 47.7% in the City of Sydney and 36.7% in Greater Sydney. Currently there is also a high proportion of residents over 65 compared to the City of Sydney and Greater Sydney, which influences the needs in the area, and so the quantum and types of housing, services and amenities provided will need to grow and evolve over time to meet the needs of changing demographics.

Many physical layers of the Estate have been explored and investigated to understand the opportunities and constraints to be considered in its renewal. These include the traditional landscape and what is still evident, the evolution of the block structure and its degree of permeability, the surrounding open space network and its connectivity, existing trees and opportunities for retention, interfaces with adjacent areas and what may change over time, important views and vistas to and from the Estate, and the distribution of built form density and scale. Related to these layers were also considerations for stormwater and flooding mitigation, and the location of existing infrastructure and potential upgrade requirements.

The many layers were grouped and investigated by **Technical and Innovation Working Groups (TIWGs)** under five themes; Environment and open space; Transport, streets and connectivity, Housing diversity and liveability; Employment, services, retail, arts and culture; and, Sustainability and infrastructure. The TIWGs were comprised of consultants from different disciplines who examined the layers from different perspectives to understand their broader implications and apply those insights to an understanding of the opportunities and constraints as part of the context and baseline analysis.

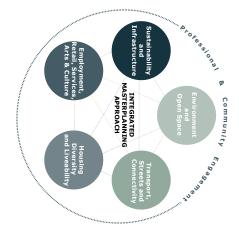


Figure 3.2.3 The Technical and Innovation Working Groups (TIWGs)

One of the key layers is the street and block structure. The social housing developments gradually replaced Waterloo's terrace houses and altered the fine grain block pattern to what it is today. Currently the Estate is an 'island', physically disconnected from the surrounding context and comprised of large blocks, which does not encourage walking and cycling. With an increase in residents, services, amenities and employment opportunities, an increase in ground level permeability with priority for pedestrians and cyclists will better connect people to places and other forms of active transport including the new metro station.

Another key layer is housing diversity and liveability. The existing buildings, that met the standards of the time when constructed, are distributed across the Estate in distinct groupings ranging from low-rise 3-4 storey walk-up to medium-rise 5-8 storey apartment buildings, to high-rise 17 storey slab buildings

and tall 30 storeys tower buildings, with an average age of 44 years against a benchmark economic life of 60 years. Their design and construction are not inherently flexible and their campus style setting with poorly defined private, communal and public open space does not make a positive contribution to the quality of the open space or public domain. None of the existing buildings would meet the current expectations for liveability, servicing and amenity that new buildings would offer, and constraints such as poor orientation, low ceiling heights, inadequately sized or no balconies, low noise and thermal insulation, and inflexible layouts and construction, does not currently make them very suitable or desirable for adaptation into social or private housing.

Other broader considerations, related to the potential for new buildings, include the maximum height of buildings in relation to Sydney Airport's PanOps (Procedures for Air Navigation Services - Aircraft Operations), solar access to areas within and adjacent to the Estate, and the effects of external noise sources, wind conditions, and air quality at different heights.

The context and baseline analysis reveals Waterloo's ongoing cycle of growth and renewal. It has changed from a thriving wetland, to a refuge for displaced Gadigal people, to a place of early industry and workers housing that accommodated many new immigrants, to the larger social housing developments in its current form. The last evolution gradually replaced the original buildings and block pattern. Each cycle has brought with it changes to the building stock to suit the particular needs of the time, resulting in a lot pattern and built form that is layered and diverse. The context and baseline analysis suggests that a layered response, with a diversity of uses, height and built form, could be both appropriate and contextual in the ongoing cycle of renewal.

Refer to Appendix 7.1 for further information



KEY DESIGN INSIGHTS

great urban place inform the renewal of Waterloo into a Insights drawn from the context analysis



Source: Eveleigh Railway Workshops 1926, Alchemy, Eveleigh Stories

set out in 'A Metropolis of Three Cities'. Connecting Waterloo to local and global opportunities is vital Increased density at Waterloo supports Sydney's growth as

support a diverse and growing community. These cover a broad range of Out of the context and baseline analysis of the Estate, Ten Key Design Insights analysis that inform the masterplan urban design and public domain response

have been established to inform the development of a masterplan that would

of the twenty one technical studies and other supporting technical studies and

The key design insights draw together the research, analysis and investigation

combine the constraints, opportunities and key aspects of the context analysis They develop themes that cross cut between the technical aspects of the

considerations including:

or within 30 minutes on public transport from Waterloo. The analysis shows how significant emerging employment areas are walkable

- Connections to surrounding employment areas can be reinforced to help increase access to opportunities for Waterloo residents and those who reside in surrounding neighbourhoods. In fostering such connections with and around Waterloo, new opportunities for employment, retail, services,
- Social infrastructure is required to support increased and healthy access to opportunities, and the education and health needs that a diverse community requires for people to take advantage of them

Need for activity centres with more services, retail, cultural, and leisure

Built form that is flexible and adaptable over the life of the masterplan

The need to support the health and well-being of a diverse community

through new social and cultural infrastructure

Increased pedestrian permeability to connect people, places and transport

Increased ground level activation and access to services

Integration of the natural environment, sustainability and access to nature

The celebration, respect and incorporation of Aboriginal heritage and

Streets that both connect and are places in themselves

The need for new and hard working public spaces

Waterloo's role in the '30 minute city

- Diverse housing models can also support workspaces.
- The culture and heritage of 'productive' Waterloo can be celebrated as 'Made in Waterloo'.

working public spaces Waterloo needs new and harder

Waterloo needs to work for global and local Sydney



Fig. 3.2.4 Key design insight 2 Source: City of Sydney, 2012

and will place greater pressure on existing and future public The Waterloo community will grow significantly over time

The built form that will be delivered to house this larger community will place greater pressure on the public spaces people share. The analysis sets out the needs for new public domain as part of this growth.

- Park and Redfern Park Enhanced connections can be made to surrounding parks like Alexandria
- A new public park can provide facilities for all ages to play, relax and
- New pocket parks and green spaces can be integrated
- public spaces and support the areas' important ecology New and existing trees and landscape features can give character to the
- New community gardens and allotments can celebrate the 'productive' history of Waterloo and offer the community the opportunity to grow their
- needs of the community. The design of streets and spaces can adapt over time to the changing
- identity of Waterloo and assist in developing a sense of place for residents. The integration of art and culture through the public domain can reflect the



Waterloo's streets need to be great to move through and enjoy



Source: Eats Beats Street, Kensington Street, 2018

With a larger community, the existing streets will need to adapt to balance dual roles, providing legible and safe movement and as active places for people to use

The study shows how the existing streets, although varied in character and use, are primarily residential, with little active frontage. In places of increased density, the streets need to be both legible and safe for movement, as well as active places for people to use.

- Streetscape design can support people using the street and those moving through it.
- Integrated movement systems for pedestrians, cyclists and public transport can help to reduce reliance on and use of private cars.
- Streets can support public use by incorporating places to sit, meet and play.
- Integrated infrastructure can support the programming of the public domain for art, cultural and community activities.

 New public open space can be connected with regional walking and the connected walking and the connected with regional walking and the connected walking and
- New public open space can be connected with regional walking and cycling paths.
- Traditional public space offerings can be complemented by vertical green spaces that utilise innovative approaches.

Waterloo needs to be a more walkable place



Fig. 3.2.6 Key design insight 4 Source: Want Community? Build Walkability. Sara h Kobos, 2016

A larger Waterloo community will require enhanced walkability with new connections and a finer grain network for increased health and well being

Waterloo is already well located for walking, to local amenities, centres and activities, Increased walkability will help create healthy communities where the things you need and use will be closer and more accessible.

- Better walking environments help reduce private car usage, with good walkable connections to local transport including the metro, bus links and car share schemes.
- Trees and landscape elements can create shade and cover for walking routes all year round.
- Routes and loops can be made legible and clear with good way-finding, places of interest and activities at key points.
- Active frontages and a diversity of uses can create interest at ground level.





Source: Preview: Sydney Contemporary 2018, Andrew McIlroy, 2018

Over time, the size of the Waterloo community will increase, but the area of the Estate will not change

The 'ground level' of the Estate therefore will need to work hard to deliver the increased services the community needs. Increased residential density needs the ground plane to balance safety and accessibility with activity and enjoyment.

- eds the ground plane to balance safety and accessibility with activity and joyment.

 Community spaces and community buildings can be flexible and multifunctional. They can adapt to a growing community's needs over time.
- Achieve 'activation ready' spaces.
- Streets and public spaces can be programmed with uses and activities that help create safe, vibrant and interesting places throughout the day and night.
- Local shops, services, health centres and public places can be integrated with residential buildings.





Waterloo needs to integrate sustainable design



Fig. 3.2.8 Key design insight 6

Waterloo Estate has existing natural assets, and increased connectivity provides opportunities for planning and design by integrating the natural environment from the outset

The renewal of urban areas requires new buildings and spaces to meet sustainability targets throughout the process.

- To reduce the cost of living through energy efficient spaces and places.
- The urban forest can be enhanced to enrich the cultural, ecological and social importance of the canopy.
- The Estate can contribute to the Sydney 'Green Grid
- Design can integrate climate change mitigation and adaptation for more extreme weather, specifically flooding and heat waves.
- Design can integrate green walls, green pavements and roofs, and bioretention systems.
- Planning can be adaptable to new technologies that create opportunities for cleaner and more efficient living, such as electric vehicles.
- The community can learn from traditional knowledge systems and practice of custodianship to instil a culture of sustainability within the Estate.
- Streetscape design can use the natural topography and integrate water sensitive urban design (WSUD) strategies to assist with flood mitigation.
- Biophilic design can help contribute to health and productivity through access to nature.

Waterloo celebrates and respects its' Aboriginal heritage



Fig. 3.2.9 Key design insight 7

Waterloo and the Redfern area has significant meaning for the Aboriginal and Torres Strait Islander people. This important history must be respected

Aboriginal culture should be incorporated into the design of the future Waterloo Estate from the outset.

- To recognise and acknowledge the key events in Aboriginal and Torres Strait Islander history that have taken place within the Estate's buildings and public spaces, and in adjoining areas.
- To recognise the history of the Aboriginal community's displacement, and their part in the creation of a diverse and inclusive community, through inclusion of support and employment services specifically geared towards Aboriginal people.
- To embed Waterloo within Sydney's emerging Ochre Grid.
- To celebrate the Gadigal landscape features such as Mount Carmel that have strong physical connections to the use of the landscape as a 'place of abundance' and as a strategic look out connecting Sydney Harbour to Botany Bay.
- To incorporate the Aboriginal seasons when designing spaces and buildings.
- To appreciate, learn from and support contemporary urban Aboriginal lifestyles through the inclusion of facilities and services that cater to the needs of the ongoing Aboriginal population in the area.

Waterloo's built form needs to be adaptable to change over



Fig. 3.2.10 Key design insight 8 Source: TonkinZulaikhaGreer Architect, 2005

Waterloo's lot structure and buildings have adapted through cycles of renewal – today the overlay of terraced streets and campus buildings give the Estate a distinctive residential character

character
In the coming cycle, the increase in the size of the community will require flexible plots, flexible buildings and flexible unit typologies.

- xible plots, flexible buildings and flexible unit typologies.

 To plan for the range of housing types, tenures and providers that will help
- create a mixed community.

 To build adaptable accommodation that meets the specific needs of the diverse communities.
- To design buildings that are suitable for the changing needs of occupants, throughout their lifetime.
- To recognise the Aboriginal concepts of kinship and extended family that require homes to be flexible to accommodate regular temporary guests.
- To incorporate the smaller, historic plot structures alongside large plots to encourage fine grain housing models in contrast to larger sites.

Waterloo needs a balanced new activity centre



Source: This Month in Atlanta: July 2018, Emory University, 2018

Waterloo's community will require new activity centres with new retail, culture and leisure services

Although there are clusters of existing services nearby, and adjoining centres in Redfern Village and Green Square, Waterloo doesn't currently have a defined centre. Communities of increased density require increased retail services to support daily needs.

- To address the under provision of services within the Estate and deliver the policy requirements for retail, social infrastructure and amenity.
- To support the valuable existing retail and cultural places that the community already enjoys.
- To strengthen walkable links to adjoining centres such as Green Square and Redfern Village.
- Waterloo Metro Station can be a centre of gravity and meeting place for the community.
- Activity centres need to be adaptable to future trends in retail and social infrastructure.

Waterloo needs to promote health and well being across the diverse community



Source: Thesoulcialista, Home Interior Design & Decoration Ideas

Waterloo is a community of many different cultures, but within the Estate there are many similar social challenges that these communities face

As the Estate changes – bringing people with different backgrounds together – new social, creative and cultural infrastructure is required to address these challenges and promote physical and mental well-being for all.

- The existing cultural diversity of Waterloo can be an important part of its future
- New social infrastructure can promote the well-being of both existing and new people within a diverse community.
- New cultural and creative infrastructure to support the social cohesion and well-being of the diverse community.
- To address the shortage of community facilities and increase access to services that target people's physical and mental well-being.





WWW 3.2.2 VISIONING AND ENGAGEMENT

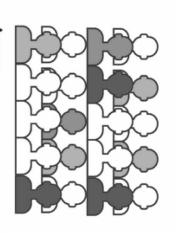
stakeholders inform the masterplan response Key issues raised by community and

of different ages and cultural backgrounds, as well as non-Government organisations, and community groups with a strong presence in the area. The neighbourhood as well as from the broader community, reflecting the diversity range of opportunities for the community to have their say, with approximately Estate, residents from the private sites within the Estate, the surrounding visioning phase of the community engagement program was extensive, with a process. This was designed to ensure input from a broad range of people context and baseline analysis, followed an extensive visioning and engagement 1,570 participants that included residents from the Waterloo Social Housing The approach to early design thinking, after completion of the Estate wide

for a safe, welcoming and vibrant place that: and Environment and open space. The findings highlight the community desire Housing and neighbourhood design; Community facilities, services and shops: stakeholders; Culture and community lite; Iransport, streets and connections; according to five themes that were developed with key community and other The findings from the visioning phase were organised and presented

- Captures Waterloo's unique identity
- Retains and strengthens its culture and diversity
- Respects its Aboriginal culture and history
- Maintains its strong sense of community

and trees. The visioning and engagement process informed a set of vision principles, reflecting the community's vision for the area, that guided early design thinking and preparation of scenarios for further design work. The community also value the natural environment, green open space



Approx

oarticipants

over half of whom were social housing residents living on the Waterloo estate



Face-to-Face

participants

Approx 14,500

community to visioning events estate, inviting the Waterloo properties on the Waterloo including to all social housing newsletters distributed,



458

surveys and postcards completed

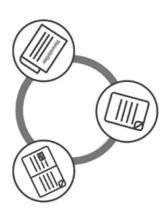


Fig. 3.2.14 Visioning engagement snapshot





WWW 3.2.3 PLACE MAKING AND CASE STUDY ANALYSIS

across a variety of themes inform create a specific urban experience design elements can be integrated to the masterplan framework and provide an understanding on how Case studies and best practice

creating a place with meaning and authenticity. as well as measure the success of different options against each other in the Place Performance Measures which is used to implement the strategy governance. The strategy provided the foundation for development of well as strategy recommendations and guidance on management and Strategy which proposes the future look and feel for Waterloo South, as Principles. The framework is the basis for the Waterloo Placemaking Story and Place Drivers which evolved into the Place Character and Place Framework which early in the masterplan process established the Place best practice approach, commencing with the Waterloo Placemaking Placemaking has been an integral part of the evidence based and

against each other and the various benchmarks. and compile a method to measure the performance of masterplan options benchmarks, understand mechanisms that enable particular outcomes, of the evidence based approach that has been undertaken to establish used as case studies to look at best practice and learnings to inform the entire masterplan process. The use of case studies is an integral part established in the early visioning phase, that have been carried through the masterplan framework. These are organised under the five themes Places and projects from Australia and around the world have been

Refer to Appendix 7.6 for further information

ENVIRONMENT AND OPEN SPACE





shade provided by plantings and bio swale Lowering urban heat island effect through

spine on George Street. to create a pedestrian prioritised central Activating street frontage for communities

Passeig De St Joan Boulevard, Barcelona

create natural shade and introduces native open space, plenty of tree plantings to species to achieve biodiversity Promoting the street as a sustainable urban

and neighbourhoods as well. green zone that activates building frontage Adapting multi-use open spaces along the pedestrian prioritised street as a new urban



Square Roots, Brooklyn

In a major urban centre like New York City sustainable produce twelve months a year ensure that city residents can source fresh the heart of Brooklyn, New York, working to A high-tech indoor farming accelerator in



Green Laneways, Melbourne

Melbourne City is greening its existing laneways to be more liveable

the community. laneway greening with murals chosen by Where greening is not achievable, invited filters stormwater whilst providing habitat Reduces heat island affect. Mitigates and world-class street artists compliment



efforts to integrate nature into its vertical heat island. spaces to help reduce the effects of urbar The city-state has made considerable

its Landscaping for Urban Spaces and High-Rises (LUSH) Programme. The city manages biophilic design through

TRANSPORT, STREETS AND CONNECTIVITY



Passeig de St Joan, Barcelona and neighbourhoods as well. green zone that activates building frontage pedestrian prioritised street as a new urban Adapting multi use open spaces along the species to achieve the biodiversity aspect create natural shade and introduces native open space, plenty of tree plantings to Promoting the street as a sustainable urbar



capacity for a strong urban community to

perform, with each finding benefits from the presence of the other. space are reliant on one another to Urbanspace, greenspace and programmed programmed communal space exist in association with an environmentally considered precinct and, a variably

Hammarby Sjostad demonstrates the



Southeast False Creek, Vancouver

open spaces for increased amenity. supported by a range of public and private and passive frontages across the precinct A range of uses provide a mix of active

Slim residential towers and human scaled responds to the eye level view. street walls create a built environment that



City Of Vinge, Fredrikssund

qualities for residents to gather around. and provide the city district with unique create dual functions: promote better is an example of how landscaping can made delta and creeks handle rainwatei communities and prevent flooding. A man The Delta District in the future city Vinge



Copenhagen Cycle Strategy

Increase commuters that cycle to work or an everyday means of transport. Aims: infrastructure and growth of bicycle use as 2025 is a comprehensive policy to support City of Copenhagen Bicycle Strategy 2011-

minutes Reduce cyclist average travel time by 15 Increase number of cycle tracks by 80%

Source: Refer Appendix 7.6 Case Studies for details

HOUSING AND LIVEABILITY



Central Park, Sydney

- Open space more supported. intensively used and
- up to rooftop gardens, not just on the ground Green space is folded vertically onto walls and
- Sustainable features at different scales



Herzberg Public Housing, Vienna

- different ways of living. Variety of residential typologies facilitating
- gardens at ground level. needs. Large outdoor terraces, communal Different urban-design typologies: Point block flexibility / combinations according to present The range of apartment types allows for access balconies & a multi-family townhouse buildings; residential courtyard building with



- Below market price units. Cooperative building, engaged occupants
- Flexible combination of floor plans enables small residential units as well as large units
- conditions and requirements. Floor plans can adapt to various living
- level and sense of communal ownership. Shared communal open spaces at ground

Safe Streets, Safe City, Calgary Neighbourliness.

A pioneering report published in 2007 to Recommendations are offered to improve the and social issues which negatively affect the recommend actions to address public safety general situation in Calgary. They range from Calgary community.



Tanner Springs, Portland, Oregon

- the wetlands serving as an important visual Integration between nature and passage, with Site includes important references to the previous heritage and form.
- as a feature within the site, when combined WSUD does not have to be atypical, it can work and practical feature for the site. with public art and boardwalk

EMPLOYMENT, SERVICES, RETAIL, ARTS AND CULTURE



Bryant Park, New York

- Bryant Park is a place to stretch out, dine and engaging activities relax. It also provides a multitude of free and
- a role of offering a place for interaction, Create social opportunities at a centre of the cooperation and participation of communities city: To make Waterloo a liveable city having



Kings Cross Masterplan, London

public realm for the area. acres (10.5 ha) of open space to form a new is ongoing, involving restoration of historic plan organised around internal streets and 26 buildings and new construction, with the entire facilities, the 67-acre (27 ha) redevelopment Located on the site of former rail and industria London and a major transport hub for the city. Mixed-use, urban regeneration project in central



Indigenous Portraits by Matt Andate

- communities in the Northern Territory. figures inspired by time spent in Aboriginal Matt Adnate's street murals depict indigenous
- present. heritage and the voices of those past the people in the inner city of the Indigenous areas is deliberate, it is a method of reminding The placement of the art work in highly visible



- sports, making and lectures. as meetings, activities, exhibitions, team work, Nearly every Helsinki City Library has space The meetings rooms are specifically designed
- gatherings. are suitable for team work, meetings and purpose facilities and team work spaces for holding meetings and gatherings. Multi-



Public Space Booking, Helsinki

which can be rented for different purposes, such



and

Elephant Park, London

A 22-hectare development site within a strategically important 122-hectare opportunity sustainability requirements commercial floorspace amounts, job targets and including market and affordable housing and which outlines specific delivery objectives conjunction with the Greater London Authority by a planning document produced in area. The development has been guided

SUSTAINABILITY AND INFRASTRUCTURE

Chophouse Row, Seattle

A world-class example of fine grain mixed

Chophouse Row feels like its 'own place Although part of a larger development area use and transformational placemaking.

with intimate and activated laneways



- Enghaveparken, Copenhagen climate adaptation upgrade. district going through a modernisation and A historic neoclassic park in the Vesterbro
- basically shapes the park into a gigantic meter terrain drop from west to east, which main defining characteristic is the onestoring large amounts of rainwater. The The new park design is adaptable to



Low2no, Helsinki Finland

- preconditions for ecological urban life. built environment and creates the construction which results in a sustainable An approach to engineering and
- carbon to carbon-free urban construction. promote a gradual transition from lowproject in Helsinki Finland which seeks to to no carbon". It is an ongoing developmen Comes from the phrase "from low carbon



- enliven the precinct as an 'urban room'. been seeking in the vacant spaces in order Creating various uses that people have
- understanding Variety of sizes, purposes and users: interaction and engagement. demands from all ages to encourage socia different needs



Incheon, South Korea Cheonggyecheon River Transformation

- effect and pollution. floor protection, reduced urban heat island Environmental benefits included increased
- public transport and as an attraction that Social benefits by encouraging use of surrounding land prices by 30-50% Economic benefits through increased

draws visitors



PLACE CASE STUDY LEARNINGS

The best-practice placemaking case studies have been selected and analysed based on how the learnings inform the development of Waterloo's place character - layered, proud, distinct and resilient - which are the fundamental qualities which define the Estate and make it special.

Refer to Appendix 7.6 for further information

HINDLEY WEST, ADELAIDE

Adelaide's first main street has dramatically changed over time. The Hindley West placemaking pilot was a project to facilitate a shared future vision between multiple stakeholders in a rapidly changing precinct.

JEWELL STATION PRECINCT, MELBOURNE

An example of 'urban acupuncture' - a small scale intervention to tackle multiple challenges. It is a successful pocket park that started as a community-focused design process to activate an underutilised space near a train station. The learnings from these projects are:

Provide on-the-ground support

A place facilitator can help to develop partnerships between community and council face to face.

snare the story

Communication and engagement with the community and stakeholders throughout the process is important through an iterative design development process to establish appetite for the project, garner energy and optimism for change and bring multiple stakeholders together

Guide delivery and negotiation

Simplify the bureaucracy and process of delivering the community's ideas through negotiating leases and dual tenancies, meeting with property owners to share the vision for the precinct, arranging the co-funding of art, cultural and revitalisation programs.

Anticipate the unexpected

Provide flexible spaces that allow the space to be used and loved even when no events are taking place, providing a sense of ownership to the community.

Co-locate with other uses

Co-location to provide a linking element between activity hubs and the station and connect these through a public domain that encourages play and lingering.



Fig. 3.2.41 Hindley West Placemaking Pilot, Adelaide Source: https://citimag.indaily.com.au, 2019



Fig. 3.2.42 Jewel Station precinct, Melbourne Source: https://www.pps.org, 2019

MURU MITTIGAR, PENRITH

An Indigenous-owned social enterprise supporting local Darug people and the wider Aboriginal community. It is committed to making a significant, measurable and lasting difference in advancing Aboriginal culture.

'WYNYARD QUARTER PLACEMAKING', AUCKLAND

The guiding framework for the urban regeneration of a 37 hectare area over 20+ years that uses important Maori concepts as principles for the redevelopment and has extended into all decision-making, such as the naming of the spaces. The learnings from these projects are:

Focus on doing and implementing

Develop programs that activate the public spaces to encourage early visitation that includes children's workshops, food trucks and markets to engage the community.

Get hands-on and make learning fun

Provide a range of engaging educational programs for the community that includes a bush resources walk, art classes, and cultural talks to share Indigenous culture and knowledge.

Provide pathways to financial security

Provide a dedicated space for community financial services which include counselling, education and community services.



Fig. 3.2.43 Muru Mittigar, Penrith Source: https://Murumittigar,.com.au, 2018



Fig. 3.2.44 Wynyard Quarter Placemaking, Auckland Source: https://www.wynyard-quarter.co.nz, 2019

ARCOLA THEATRE, LONDON

An experimental theatre located in a culturally diverse area which encourages innovative ideas, and celebrates the diverse local community. By rethinking the theatre building as a platform open to engaging in a wider range of innovative projects, and by mixing income streams, they have created a space which is socially, environmentally and financially sustainable.

ONE LOVE CITY, COPENHAGEN

A crowd-sourced public event which transformed a public square into a lively cultural marketplace and social meeting place. The adventure-playground style installation was left intentionally flexible to encourage spontaneity. The learnings from these projects are:

Ensure equitable access

Provide opportunities to residents who may not usually be able to afford it, e.g., 'pay what you can' days for services, edible landscapes.

Build strong partnerships

Recognise and build on existing community initiatives and help drive local sustainability initiatives by building connections to existing organisations.

Keep things local

Retain and build upon the existing local businesses and sharing economy to instil a sense of pride and establish a local micro-economy through local bars, shops and cafés, and markets populated with local artisan goods.

Facilitate shared learning

Bring community and cultural organisations together, to equip people with lessons learnt, and act as a catalyst for institutions involved to rethink broader cultural and public space strategies across the Precinct.



Fig. 3.2.45 Arcola Theatre, London Source: https://www.arcolatheatre.com, 2019



Fig. 3.2.46 One Love City, Copenhagen Source: https://detours.biz/projects/one-love-city, 2019

ECO CARLTON PROJECT, MELBOURNE

A platform between residents, local action groups, architects, and developers that focused on environmental efficiency and sustainability.

INCREDIBLE EDIBLE, TODMORDEN

A movement of food growing across the town's public spaces and among the town's people, challenging traditional notions of the public realm. The learnings from these projects are:

Make sustainability practical

Deliver on-the-ground projects that could include the establishment of community gardens, a coffee grounds collection and composting scheme with local businesses

Tailor teaching to tenure type

Deliver workshops specifically directed at the existing community, offering advice on simple things for environmental savings.

Orient new communities

Bring together a diverse mix of residents (age, ethnicity, housing tenure) in a safe and small-scale environment, to facilitate bonding between neighbours and to establish a socially-inclusive united front in advocating environmentally friendly living practices.

Engender civic pride

Engendering a sense of belonging and ownership will make Waterloo everyone's responsibility, and help increase safety and reduce crime and vandalism.

Generate tourism to generate revenue

Make Waterloo a destination.



Fig. 3.2.47 Eco Carlton Project, Melbourne Source: https://www.bioregional.com, 2019



Fig. 3.2.48 Incredible Edible Todmorden, Todmorden Source: http://calmfulliving.com, 2019



DENSITY CASE STUDY LEARNINGS

to the design and experience of the Estate The case studies have been analysed based on how the learnings inform the masterplan response Case studies were analysed using a range of metrics to understand density in different contexts

Refer to Appendix 7.6 for further information

Everyone feels welcome

Design for diversity, equality and variety.



ig. 3.2.49 Nine Elms, London

Design for all ages and abilities Source: http://www.onenineelms.com, 2019

the area and the range of community facilities and non-residential uses that are provided in through tenure, mix and size of, both residential Diversity can be preserved and nurtured

A welcoming and inclusive precinct

Delivery of social facilities in the first stage will the right to return for social residents enable the master plan to adapt and deliver on

Social connectedness

linking to the wider area need to be considered to strengthen diversity. Connections to a broader network of places

Renewal takes time and passes through many hands Keep it flexible



Source: https://www.elephantandcastle.org.uk, 2019 . 3.2.50 Elephant & Castle, London

Flexible ground plane

prescriptive requirements. flexibility, rather than setting strict and domain and urban form. Allow room for Flexibility needs to be built into the public

Public domain

different users and activities. of spaces and diverse programme to allow for The public domain needs to provide a variety

Flexible dwellings

of floor plans for different numbers of people original design life. allow for adaptive reuse of buildings beyond its per dwelling, or different life stages. This will considered to allow for the reconfiguration Within buildings, flexibility needs to be

Mix it up

A range of uses, typologies, tenures and site densities.



Source: http://vancouverneon.com, 2019 3.2.51 Woodwards, Vancouver

Mixed use in podiums

and mix of uses. Providing supporting land intensified, including transport, open space, As density increases, the offering must be vibrancy. entertainment and businesses) will uses (such as retail, social infrastructure, create

Tenure blind

that allows for different tenures to be provided Social housing works best in a mixed community

Intermediate dwelling typologies

to support intermediate typologies in the future. Flexibility needs to be built into the lot structure

network

complex places made of simple elements Successful urban environments are often Good things come in small packages



Source: https://vancouver.ca, 2019 Fig. . 3.2.52 Joyce Collingwood, Vancouver

Micro and vertical neighbourhoods

and ownership. and helps to engender a sense of belonging supports different scales of social interaction Vertical mixed use within a single structure

Character areas

create a vibrant mixed- use precinct provision of open space and of areas of activity Distinct architecture, use of green elements,

building entries Access to daily needs within 200 metres of

retail, social infrastructure, entertainment and Providing supporting land uses (such as businesses) will serve the needs of the local population as well as those who pass by

Communal spaces and social corners

needs, a range of open space typologies Urban precincts don't need to rely on the ground plane to provide all of their 'green' supports different scales of social interaction.

Connected green infrastructure

Biophilic design



Source: https://thehoneycombers.com, 2019 Fig. . 3.2.53 Tanjong Pagar, Singapore

Biophilic design principles

nature for increased health and well-being. Integrate biophilic design to connect people to

Contributory open space

and well-being. active transport modes and increased health 200 metres of building entries to encourage Provide access to identifiable open space within

Urban forest and green grid

mitigate heat island effects and provide urban should be considered. relief for residents, green walls and roofs help to temper the intensity of built form. To The greenery of parks and tree-lined streets

gardens Productive landscapes and community

liveability and promoting social interaction. nature, reducing living costs for increased benefits that includes connecting people to Productive The public domain needs to work harder. landscapes provide multiple

EXPERIENCE

Who are the users and what do they need? Know your community



Source: http://urbantoronto.ca, 2019 3.2.54 Regent Park, Toronto

Community vision and needs response

community's vision and desires for gathering areas, flexible dwelling typologies, staging, accessibility and local services, safety, sense of community, be understood. Understanding the Waterloo the community's needs and desires need to and responds to the community's requirements, To ensure the experience of a place is positive programming help inform the masterplan specific public domain

Options testing engagement

are heard. taken through the journey and that their voices from the outset to ensure the community is Design with sufficient community engagement

Start with the spaces

"First life, then spaces, then buildings" Jan Gehl



Source: hudsonyardsnewyork.com, 2019 Fig. . 3.2.55 Hudson Yards, New York

Public domain led design process

and activated so as not to be overbearing or empty outside peak hours. of the public realm, its scale to function as gateways to transit, while still being intimate Consideration needs to be given to the quality The public domain will have to work hard

Walkable pedestrian priority precinct

spaces to shape the buildings. these spaces have been shaped, then use the liveable places allow social interaction. Once Consider how people dwell within spaces -

The eye level view

Perceived density is a matter of human scale



Source: Turf Design, 2019 3.2.56 Central Park Sydney

Everyday experience

overall sense of place and level of safety. with programmatic activities will inform the streets. The quality of these spaces together experience of users needs to be prioritised by Design with the pedestrian in mind. The

Pedestrian scale and fine grain detailing

street to build up and be replaced over time, at walking speed, and different sections of a variation in the ground floor activity to be seen creating a more complex place over time. Provide a fine grain to allow more frequent

Active frontages

different developments. to create an interface between buildings of Concentrate activation on building corners

street walls result in a built environment that is pedestrian networks. Slim residential towers texture for permeability that supports Provide lot diversity to create a fine urban sensitive to the eye level view. podium-level courtyards, and human-scaled

Celebrate the past and the present

Avoid generic responses to specific places



Source: https://en.convention.parisinfo.com, 2019 Fig. 3.2.57 Bercy, Paris

retention and representation Cultural, environmental and heritage

celebrate its local identity. are leveraged in the renewal of the place and community skill base and cultural diversity) assets (both physical and social e.g. the layered history will assist in ensuring existing Understanding the complexity of the area's

Storytelling and integrated public art

reflect local identity, to interpret an area's history Public art needs to relate to its context and aspects for Waterloo include: and make it accessible to the community. Key

- Multi-cultural diversity
- Placemaking
- Local making Food production
- Integral aboriginal culture

Lead with public benefits

Build trust and liveability from the outset



Source: https://propertyhouse.co.uk/, 2019 Fig. . 3.2.58 Woodberry Down

Transport

reduce dependence on cars. locate people closer to opportunities and Higher densities close to transport options

Public benefits

benchmark for quality. This includes: well as supporting collective well-being and a and set an important foundation for trust as Lead with public benefits such as social projects may be physical or programmatic within the existing community. Public benefit infrastructure that meets an identified need

- Public domain and open space
- Local community facilities
- Employment Services and shops

construction. Consider staging to minimise and visitors may be subject to decades of means that existing and incoming residents disruptions to existing residents The scale of transformation in renewal areas



PLACE PERFORMANCE MEASURES

the opportunity to create a great and Sydney 21st century, a place where residents can inspiring inner city community for the lead full and satisfying lives in a growing The renewal of Waterloo South provides

and will help support tuture decision making. the planning framework and Indicative Concept Proposal for Waterloo South options testing whilst a long list of place performance measures has informed balanced and evidence based approach. A short list was adopted for concept developed specifically for Waterloo to aid decision making and support a local place making research, a set of Place Performance Measures has been Through the analysis of case studies, global best practice place metrics and

used in conjunction with other community building measures, facilitate an understanding of how Waterloo as a place will perform and be experienced for the Estate to aid decision making. They are indicators, and when future, the renewal of Waterloo Central and Waterloo North. proposition, teasibility, stakeholder and community teedback, sustainability and based decision making approach to the renewal of Waterloo South and in the technical measures. Used collectively, they provide a balanced and evidence They are one of a suite of measures for Waterloo that includes the project The suite of Place Performance Measures have been developed specifically



Fig. 3.2.59 The relationship of Placemaking to other performance measures

METHODOLOGY

happiness, give the performance measures local Waterloo relevance. qualities highly valued by the community, and features that promote health and place character, place principles and strategy themes for Waterloo. A focus on with Waterloo's Placemaking Framework & Strategy that identifies the future The process of selecting Place Performance Measures for Waterloo starts

Connectivity; Housing; Culture and Design; and Services and Amenities. arching objectives for Waterloo; Environment and Open Space; Transport and organised under the Waterloo objectives and principles under the five overbest practice place metrics and local place making research. They are The Place Performance Measures are a compilation of recognised global

future tender EOI packages, the design excellence process, and development from the refined long list. This long list informs the Development Control Plan been embedded into the masterplan framework, they have been excluded Measures evolved throughout the masterplan process, where measures have Proposal, and will help support future decision making. The Place Performance Masterplan for the Estate. The Place Performance Measures were further A long list of Place Performance Measures was adopted for the Preferred under this framework. A short list was adopted for concept options testing. A rationale, method and measure relevant to Waterloo is further expanded informs the planning framework and the Waterloo South Indicative Concept refined through consultation with the City of Sydney, this refined long list

KEY FINDINGS

provide and understanding of how Waterloo South as a place will perform and benchmarked against the world's most progressive precincts. These measures add to Waterloo as a unique place within Sydney and enable Waterloo to be Performance Measures were identified across a variety of elements that could Through an analysis of the case studies and global best practice, Place

Refer to Appendix 7.6 for further information

PLACE PERFORMANCE MEASURES

Concept Proposal: The list of Place Perfomance Measures that inform the Waterloo South Indicative

Open Space and Environment

- Landscape Replacement Area Control
- Urban Forest
- Sunlight to Parks

Transport and Connectivity

- Intersection Density & Small Block
- Sunlight to Streets

Mobility on Demand Network

Parking

- Housing **Sub Precinct Completeness**
- Vertical Village
- Open Space Accessibility

- Culture and Design Community Resilience
- Adaptable Ground Floors
- **Building Entries**
- **Building Frontage**

Services and Amenities

- Productive Landscapes
- Parks as Places
- Edible Landscapes
- Ground Plane Space Diversity
- **Ground Plane Transparency**

Refer to Appendix 7.10 for further information





KEY DESIGN DRIVERS

Waterloo has been shaped over time and these influences set the context for change going forward

Key Design Drivers, specific to Waterloo, were defined to inform the masterplan, and create an authentic place, that reflects and builds upon the unique qualities that were revealed though the masterplan process of context analysis, visioning, early design thinking, placemaking, options testing case studies, and performance measures. These are a Shared Community, Living Culture, Blue/Green, Keep It Local, and Urbanity.

SHARED COMMUNITY



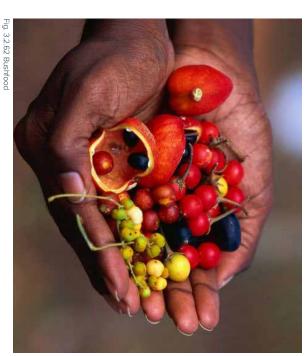
Fig. 3.2.61 Family Day on Waterloo Green Source: Counterpoint Community Services Facebook Page, 2018

A culturally diverse community bonded through adversity, resilience and active engagement. Waterloo already has a distinct neighbourhood character and this is a notable strength to retain and build upon for the future renewal of the Estate for the existing and evolving community

People in Waterloo are diverse in age, culture and background. Waterloo has historically been a welcoming place for people from all places. The cycles of renewal and waves of immigration over time has seen the influx of people of all ages, demographics and races into the Estate. This diversity has led to independent yet inclusive groups, with a common connection of stories, events and support.

This history of Waterloo has created the proud, distinct, resilient and layered community character that it has today. This diverse and hands-on community can be celebrated through opportunities for expression, storytelling and engagement.

LIVING CULTURE



Source: Tourism Australia / Oliver Strewe, 2017

Waterloo has a distinctly embedded cultural identity that has evolved over time. The existing Estate is home to people from all places and its character is tied intrinsically to the people that have shaped its history. Recognising and reflecting the Aboriginal and multi-cultural stories will be important to connect Waterloo to the past, present and future

Waterloo is defined by over 60,000 years of continuous Aboriginal association with land and country, including contemporary cultural practice and living traditions. The Aboriginal and Torres Strait Islander population has fluctuated over time and there are themes of struggle and survival, particularly in relation to the greater Redfern area as a Koori meeting place. The waves of immigrant workers, Chinese market gardeners, Lebanese merchants, Greek and Russian workers and it's industrial past have also shaped Waterloo as a place and community. The cultural diversity of the existing community that call Waterloo home is reflected through festivals, gatherings and other events.

Aboriginal culture and heritage is intrinsic to the past, present and future of Waterloo as a place and community. The opportunity exists to embed Aboriginal culture and respond to the needs of the Aboriginal population in planning and design, in order to acknowledge and share the strong Aboriginal influence on the place's identity and at the same time recognising the other cultures that have shaped Waterloo.

BLUE / GREEN



Fig. 3.2.63 Community Garden Source: Johnny Weeks for The Guardian, 2018

Remnants of the original Gadigal landscape can still be seen while others, like the presence of water, have disappeared. Connecting to the cultural significance of traditional landscape elements will be a key aspect in the renewal of the Estate into a great urban environment

The wetlands of Waterloo are a key part of the Estate's cultural and environmental heritage, as a source of food and materials and a place of gathering for the Aboriginal people. There are remnants of the original Gadigal landscape still in evidence within Waterloo, such as Mount Carmel and the topography, while other previously dominant elements such as the historical presence of water have disappeared.

This presents opportunities to reinterpret the landscape qualities of the place across time and deliver a vibrant public realm which is productive and hyper-functional.

KEEP IT LOCAL

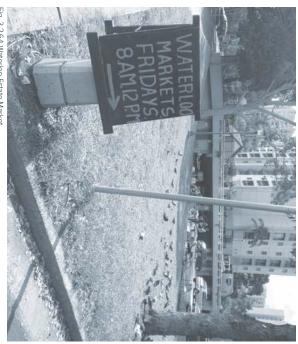


Fig. 3.2.64 Waterloo Estate Market

Waterloo's heritage as a productive place is still evident in its current day sharing economy. Recognising and supporting this 'Made in Waterloo' ethos will be important for Waterloo to be 'of its place'

Waterloo has long been associated with a culture of making. From industrialisation around the mid 19th century onwards, the area has been a hotbed for entrepreneurial spirit and trade-based, utilitarian professions. More recently there has been a resurgence of crafts and innovation in the area, attributed to affordable making spaces and connection with cultural and technology institutions.

The opportunity exists to embed Waterloo's history of industry, craftsmanship, business and production. This culture of making can be reinterpreted as a guiding theme for the provision of employment, education and cultural expression in Waterloo.

URBANITY



Fig. 3.2.65 Jewell Station pop-up event, Melbourne Source: https://www.betterblock.org, 2018

As Waterloo becomes denser the public domain and ground plane need to both work harder and be more flexible, to accommodate for a range of uses and users, to adapt to changing needs over time, and to support the range of social interactions that are necessary for a liveable neighbourhood

With the new Waterloo Metro Station, the Estate is set to become a new activity centre with increased density. Connecting the growing community to global and local opportunities will be vital to Waterloo's renewal into a great urban place. Hand in hand with density, urbanity will be a vital component to making it a liveable neighbourhood. Urbanity is the spatial and social interactions that combine to make up the experience of urban life. Spatial elements include the provision of physical infrastructure such as community centres, service providers and services associated with social housing. Waterloo also plays host to a number of community events which see residents come together, along with visitors, for celebrations and other purposes.

These physical elements facilitate both informal and formal connections; from friendships and interactions with neighbours, to local facilities and services. These social services, networks and connections can be supported and nurtured in Waterloo, particularly through inclusive and accessible spaces.



WWW 3.2.4 EARLY DESIGN THINKING AND SCENARIOS

or circumstances to understand the on a key approach and set of influences place characteristics that evolved Six scenarios were explored, focusing

explored each focused on a set of key influences and were characterised as: these ideas to their limits, in order to understand the place characteristics, Early design thinking explored a number of Scenarios, and stretched opportunities and challenges that emerged from each. The Scenarios

- How Green? Considered the optimisation of new and existing landscape
- How Low? Looked at suppressing the building heights as low as possible with little height diversity
- How Connected? Considered maximised ground level connectivity and a fine grain block structure
- How Centred? Looked at consolidated activity and open space around
- How Diverse? Looked at dispersed activity centres throughout the
- How Blue? Considered access and connection to nature and water as its key influences

This early design thinking was the starting point for developing strategic directions to be tested against the project vision and principles for the Estate.

Refer to Appendix 7.2 for further information

HOW GREEN?

HOW LOW?

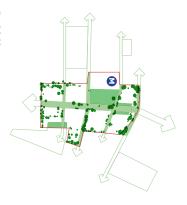


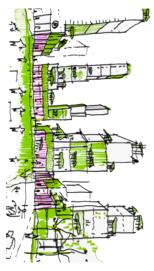


Fig. 3.2.66

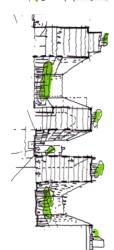
optimising the landscape, open space and contributory open How Green? Considered the benefits and outcomes of

Fig. 3.2.67

How Low? Considered the potential outcomes of suppressing the height of development and reducing the number of tall







CASE STUDY LEARNINGS



Singapore Park Royal Hotel



Passeig De St Joan Boulevard Fig. 3.2.69

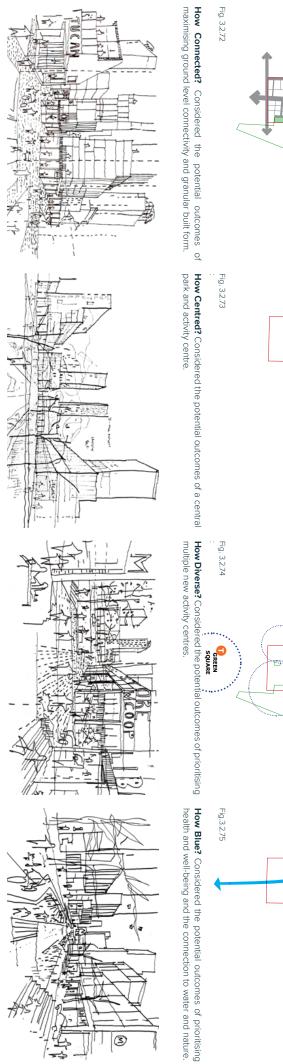


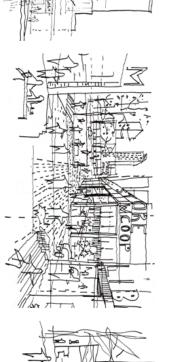
Hammarby Sjöstad Stockholm, Sweden



Fredrikssund City Of Vinge Fig. 3.2.71

HOW CONNECTED? **HOW CENTRED?** Fig. 3.2.74 **HOW DIVERSE?** ATP REDFERN **HOW BLUE?**





GREEN SQUARE





Central Park, Sydney

Gillet Square, London, UK







Transformation Incheon, South Korea Cheonggyecheon River



Tanner Springs Portland, Oregon



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CATALOGUE OF DESIGN IDEAS

Key design elements emerged that provided specific place qualities; some were interchangeable while others were unique and specific to a particular option

The catalogue of design ideas are a set of place characteristics that emerged from the testing of scenarios. These informed the development of the concept plan options, Preferred Masterplan and Waterloo South Indicative Concept Proposal.

Refer to Appendix 7.2 for further information



Fig. 3.2.84 **Pedestrian Boulevard** to retain existing canopy Create a green spine connection that promotes community interaction through food production and edible landscapes.

Fig. 3.2.85 Consistent street edge



Create a sense of arrival into green space by co-locating the park next to the metro station.



Fig. 3.2.87 Shared courtyard spaces



Fig. 3.2.88 Built form with **park address**Provide additional amenity by increasing built form frontage to landscape.



Fig. 3.2.89 Hierarchy of streets and social spaces















Fig. 3.2.95 **Diversity** of open spaces





Fig. 3.2.96 Frontage to landscape



Fig. 3.2.98 **Diversity** of neighbourhoods



100 3.2.5 STRATEGIC DIRECTIONS

approaches to accommodating explored distinctly different the project proposition The Strategic Directions

proposition and 'kit-of-parts' of non-residential uses. explored distinctly different approaches to accommodating a similar project delivery, proposition, program and concept studies. Three Strategic Directions community and stakeholder engagement, and the fundamentals of the project Baseline Report, key stakeholder and technical study inputs from the TIWGs, Directions which also were informed by the 10 Key Design Insights from the The early design work formed the starting point for developing the Strategic

some of which were common to all, that in combination characterised each vision and principles for the Estate. Each contained primary design elements, All three Strategic Directions were tested and found to support the project

and events connected by fine grain pedestrian focused streets, building on Strategic Direction 1 comprised a variety of parks, community services, spaces Waterloo's existing natural, social and built form diversity.

connecting people to Waterloo's unique natural and cultural heritage. spaces and events through a continuous walkable 'blue-green' corridor Strategic Direction 2 comprised connecting parks, community services,

Strategic Direction 3 comprised a centralised Waterloo village around a

primary park with a walkable 'green line' connecting people to key community

Village Green and Waterloo Park. were all found to be worthy and plausible options which were then further developed into the three Concept Plan Options; Waterloo Estate, Waterloo Through a process of testing, review and analysis the three Strategic Directions services, spaces and events.

Refer to Appendix 7.2 for further information

STRATEGIC DIRECTION 1

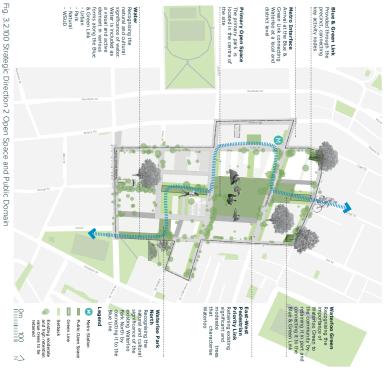


Fig. 3.2.99 Strategic Direction 1 Open Space and Public Domain

of that particular part of the site, enhancing micro specific response to the existing and future qualities neighbourhoods. retained as the primary park. Each space provides a provided across the Estate with Waterloo Green A diversity of Public Domain and Open Spaces are

throughout the Precinct encourage walking and cycling. Additional fine grain pedestrian focused streets provided

STRATEGIC DIRECTION 2



-

The primary open space is located within the centre of the site next to the retail, community and social services.

A 'blue-green link' connects pedestrians and cyclists to Waterloo Green, the central primary open space, Metro station and Waterloo Park celebrating the Estate's connection to nature and water.

STRATEGIC DIRECTION 3



Fig. 3.2.101 Strategic Direction 3 Open Space and Public Domain

The primary open space is located adjacent to the Waterloo Metro Station providing a 'green arrival' to Waterloo. Retail, community and social services surrounding the park strengthen the focus on the 'green' character.

A continuous north-south 'green line' through the Estate provides a pedestrian and cycle friendly environment. George Street is widened to support the retention of the existing tree lined character, promote the connection to nature and create the opportunity for a variety of social and community spaces.



3.2.6 CONCEPT PLAN OPTIONS

and project proposition for the Estate with different characteristics to create to deliver the project vision, principles three distinct urban places The Concept Plan Options explored how

of different key elements to provide an understanding of the strengths, opportunities and challenges of delivering Waterloo. Each Concept Plan Option tested a combination approaches to the masterplan to deliver the vision for The Concept Plan Options tested three different

street pattern of Waterloo, and a diversity of smaller a fine grain block structure, referencing the historic neighbourhood parks and plazas. Taller building heights influenced by How Diverse and How Connected with dispersed evenly throughout the Estate and retail, services and community facilities were Waterloo Estate Concept Plan Option was most

open space outside the Estate to the main Village Green, and How Blue. Landscaped links connected most influenced by How Centred, How Connected, How Green, centred in the Estate's north, with integration Waterloo Village Green Concept Plan Option was

> Quarter, with secondary locations around the Village and community hub was located adjacent to the Metro open spaces and links, and a significant retail, services of landscape and water into the pedestrian links, and Taller building heights were organised around primary larger landscaped setbacks to retain significant trees. Green and along a pedestrianised and landscaped

landscaped and pedestrianised as an open space in Pedestrian Boulevard. around Waterloo Park and along the George Street retail, services and community facilities were organised regular and less fine grain. Taller building heights and from the Metro Quarter. George Street was widened, central park was also a landscaped arrival place to and influenced by How Centred and How Blue. Here the Waterloo Park Concept Plan Option was stormwater management. The block structure was more itself, with water integrated as both a feature and for

Waterloo Estate explored a variety of parks, community services, spaces and events, connected by fine grain pedestrian focused streets, building on the diversity that characterises Waterloo's natural, social and built environment Fig. 3.2.102 Waterloo Estate Concept Plan Option

9 Supports diversity of open space and retention of trees

Variety of built form

Supports a diverse range of housing options.

BUILT FORM AND LOT STUDY ANALYSIS

represent a broad range of different lots and building conducted on a selection of different lots, chosen to envelopes have been tested for their potential to types across the Estate. government policies. Detailed lot studies have been framework as well as applicable state and local satisfy the controls contained in the proposed planning The distribution of built form and the proposed building

amenity effects onto adjacent sites a core, solar access, natural ventilation, the quantum of apartment sizes, floor to ceiling heights, circulation from Design Guide's objectives for building separation, building envelopes, to satisfy SEPP65 and the Apartment This has confirmed the ability of the masterplan, and

Refer to Appendix 7.2 for further information

WATERLOO ESTATE CONCEPT PLAN OPTION



0m 75 A



Fig. 3.2.103 View from Cope Street to Waterloo Station Source: Tim Throsby (Illustrator), 2018

KEY ELEMENTS

1 Urban plaza next to metro

metro station. Arrival at a mixed-use urban plaza next to

(Retention of Waterloo Green

Variety of streets & lots

ω Supports a highly walkable neighbourhood.

4 Variety of open spaces

Distributed throughout for improved access

George Street Pedestrian Boulevard

(5) 20 metre wide north-south connector.

Social corners



Fig. 3.2.104 View from George Street to Waterloo Green Source: Tim Throsby (Illustrator), 2018

WATERLOO VILLAGE GREEN CONCEPT PLAN OPTION



Fig. 3.2.105 Waterloo Village Green Concept Plan Option

0m 75 A

Waterloo Village Green explored the characteristics of connecting parks, community services, spaces and events through a continuous walkable 'blue-green' corridor that connects people to Waterloo's unique natural and cultural heritage



Source: Tim Throsby, 2018 Fig. 3.2.106 View from Cope Street to Waterloo Station



Source: Tim Throsby, 2018 Fig. 3.2.107 View from the Metro Quarter to the Estate

KEY ELEMENTS

Centralised park

Provides a village focused primary park.

Unique street grid

the metro station. Considers future urban growth and access to

George Street Pedestrian Boulevard

20 - 25 metre wide north-south landscaped

Blue-green link

Aligns desire lines to the metro station with landscaped environment.

Unique lot structure

diverse range of building types Supports unique architectural responses and a

Supports increased amenity. **Environmentally responsive built form**

WATERLOO PARK CONCEPT PLAN OPTION



Fig. 3.2.108 Waterloo Park Concept Plan Option

0m 75 A

4 **ω**

Through site link network





Source: Tim Throsby, 2018 Fig. 3.2.109 View from Cope Street to Waterloo Station



Fig. 3.2.110 View along George Street Pedestrian Boulevard Source: Tim Throsby, 2018 PLANNING PROPOSAL _ 08.04.2020 119

KEY ELEMENTS

(Public park next to metro A 'green' arrival to Waterloo provides a

recreational anchor for the Estate.

George Street Pedestrian Boulevard

spine" that provides a series of parks. Provides a 30 metre wide north-south "green

Courtyard style blocks

Publicly accessible courtyards



3.2.7 OPTIONS TESTING

community and stakeholders on the options inform the masterplan response Key feedback and issues raised by the

an options testing phase of consultation with the community and stakeholders. success of the renewal of Waterloo South. The Concept Plan Options went through the planning process, and into delivery and operation of the Estate is key to the landowners, local stakeholder groups and the broader community throughout Ongoing communication and engagement with social housing residents, private

the basis of the development of a Preferred Masterplan. community and stakeholder sessions highlights the key considerations and formed and shops; and, Environment and open space. The summary of feedback from the connections; Housing and neighbourhood design; Community facilities, services collated under the five themes of Culture and community life; Transport, streets and Consistent with the visioning process, the options were presented and feedback

a preferred master plan for the Waterloo Renewal rather than a single preferred a number of elements of each of the options for consideration in preparation of Feedback on the three renewal options was mixed, with participants identifying

include community gardens at ground as well as rooftop gardens, to balance contribute to a walkable neighbourhood. retention of existing trees with new ones, and provide a range of community just a thoroughfare, and the landscaped pedestrian links should be accessible and community events. George Street should be a series of landscaped spaces, not be provided rather than fewer larger spaces, with at least one large space for gathering spaces. A diversity of different types and sizes of open spaces should Environment and open space confirmed strong support for the masterplan to

a pedestrian priority precinct, integrating safe cycle routes, with slow to shared metro station, services and community facilities streets and safe, accessible and direct, connections to local bus stops and the Transport, streets and connections confirmed strong support for making the Estate

> and others who thought the number of buildings was a more important consideration a maximum of 32 storeys, some expressing limited support for 40 storeys or higher Estate. Views were mixed on building heights with many preferring the option with open spaces, as well as the amenity of the dwellings themselves any tall buildings must consider the amenity of the public, communal and private than their heights. The common factor was that the appropriate arrangement of and sizes, and an even distribution of social and private dwellings across the spacious and better designed dwellings with balconies, a better mix of types Housing and neighbourhood design confirmed strong support to incorporate **more**

for equitable access and opportunities for growth with a growing community, multi-purpose spaces. There should be a primary activity hub clustering community opportunities for learning, health and childcare, and community rooms, creative and to support existing and new residents. The masterplan should provide more Community facilities, services and shops confirmed their high level of importance facilities, services and shops in the vicinity of the Metro Quarter and provision for further community facilities, services and shops to be spread out across the Estate

should be included such as ground level community gardens, youth facilities, dog about Aboriginal culture heritage, and to provide facilities and places that support knowledge sharing also incorporate opportunities to recognise and celebrate Aboriginal culture and parks, play areas and space for entertainment and events. The masterplan should Culture and community life confirmed that a wide range of public activity areas

Refer to Appendix 7.2 for further information



Source: 'Let's Talk Waterloo", Elton, 2018



ENVIRONMENT AND OPEN SPACE

- Incorporate green space wherever possible.
- the southern part of the Precinct residents living in different parts of the precinct, including Equitable access to parks and open space areas for
- for people of all ages and abilities. Safe, pleasant and welcoming - accessible and usable
- Boulevard as a series of interconnected parks. Transform George Street into a green Pedestrian
- Support pedestrian safety.
- Consider capital and maintenance development sustainability. ō ensure
- augmentation of the trunk drainage. maintenance requirements for the city, providing for root Stormwater strategy needs to consider reducing open space and combining in-street strategies zones of street trees, stormwater detention within larger
- Locate community gardens where they will achieve 6 hours sunlight every day to meet City of Sydney policy.



: 0

TRANSPORT, STREETS AND CONNECTIONS



Fig. 3.2.113 Options Testing



HOUSING AND NEIGHBOURHOOD DESIGN



- More spacious and better designed apartments high quality homes that meet the diverse needs of residents, respond to changing lifecycle needs, provide indoor and outdoor space, improved safety and security, and storage
- Matavai and Turanga. Mixed views on the retention of the existing buildings
- Aboriginal affordable housing

Address traffic congestion.

transport services.

Provide access for emergency services and community

Design pedestrian paths and cycle ways to provide **equitable access** and safety.

Easy access to a range of transport options.

Safe and direct connections to local bus stops and

Waterloo Metro Station.

- reduce energy consumption. Consider water reduction strategies and passive design to
- scale (for solar access) and strategies to mitigate wind. Tall buildings should be slender to reduce visual bulk and
- clearly define public and private uses Address operation of publicly accessible courtyards

Street parking

Basement, servicing and parking strategy

Consider bicycle parking and end of trip facilities.

unbundled spaces

Include innovative parking solutions like decoupled and



Fig. 3.2.114 Options Testing



COMMUNITY FACILITIES, SERVICES AND SHOPS

- Waterloo as a place and community. heritage as intrinsic to the past, present and future of Recognise and celebrate Aboriginal culture and
- Support **knowledge sharing** about Aboriginal culture among the broader local community and visitors to provide opportunities for community learning, healing
- **Bring people together** by supporting social interaction and provide opportunities for **learning**, **growth and** leadership.
- Provide a range of educational facilities and programs to meet the needs of existing and future residents.
- Enable residents to access employment and acquire the assistance and small business support services. skills to run their own businesses through employment
- Assist elderly residents to age in place through on-site aged care facility and age-related support services.
- Health and wellness facilities and programs
- Aboriginal employment and engagement.



Fig. 3.2.115 Options Testing



CULTURE AND COMMUNITY LIFE

- a strong sense of community and belonging. character and where current residents continue to enjoy Waterloo should remain an authentic place with its own
- Provide opportunities for people to meet and socialise and for it to continue to be **a welcoming place** for all members of the community.
- Include a range of spaces to **support community life** including places for residents to meet, socialise and gather for larger scale events.
- activities for young people. Community gardens, dog parks, play areas for kids and
- and future in Waterloo. Tell the multiple stories of Waterloo to connect the past
- stories. Recognise and reflect Aboriginal and multicultural
- Address how **placemaking** is integrated.



3.2.8 PREFERRED MASTERPLAN 2019

social (affordable rental) dwellings: 70% market dwellings. new, modern homes with a mix of 30% A mixed urban village of approx. 6,800

a set of key elements were developed to form the existing and future place characteristics. activities defined five sub-precincts based on their basis of the masterplan approach. Placemaking the feedback from the community and stakeholders of each of the Concept Plan Options and, together with The Preferred Masterplan 2019 distilled the strengths

intersection of George Street and Phillip Street. Redfern and Waterloo that includes the prominent Waterloo Gateway as the transitional area between

Metro Quarter, Activity Centre Plaza, and Village evening activation. exchange, being a primary activity centre with day to Green, as a place for commercial and social Metro Central centred around the metro station,

its industrial past around Cope and McEvoy streets, to the Village Green by the George Street Pedestrian with Waterloo Common at its centre, and connected Maker Village as the area that retains evidence of

and mediates the change in level between the pronounced moving south. Village Green and Pitt Street, which becomes more Waterloo. It also interfaces with the Village Green Parkside Village interfaces with Redfern and

and School, Waterloo Park and Waterloo Oval and its interface with Our Lady of Mt Carmel Church Hilltop Village, characterised by its steep topography

KEY ELEMENTS

- Supports community gatherings, events, recreation,
- 3 GEORGE STREET PEDESTRIAN BOULEVARD productive landscape and water management

 waterLoo common

 Provides open space for neighbourhood gathering, productive landscape, play and water management
- (4) WATERLOO METRO STATION corridor connecting the community to key destinations

A 20 - 25m wide tree lined, landscaped pedestrian

- S GATEWAY PLAZA
- (a) ACTIVITY CENTRE PLAZA

 A community hub plaza connecting the Metro Quarter A welcoming threshold and community gathering
- RETAIL AND SERVICES HUBS and Village Green
- Provide a mix of local retail and services

 (a) COMMUNITY HUBS

 Provide community gathering space and community
- services
- A pedestrian connection between key destinations that reflects the local water story
- (O COMMUNITY GARDENS

 Provide productive opportunities for the community to grow and harvest produce
- Provide opportunities for active uses including play
- Provides a route that connects key spaces, space, picnic areas, fitness and youth zones

for all ages and abilities

destinations and amenities that is safe and accessible

PREFERRED MASTERPLAN 2019



Fig. 3.2.116 The Preferred Masterplan 2019

3.2.9 CITY OF SYDNEY ALTERNATE PLAN

The alternate plan for the Estate proposed approximately 5,000 to 5,300 dwellings with a mix of 50% social: 20% affordable: 30% market dwellings.

The City of Sydney developed an Alternate Plan that was exhibited in March 2019. The Alternate Plan stated the following key principles:

Reduce community disruption.

Consider Aboriginal and Torres Strait housing.

Rescale the neighbourhood.

Reduce the need for excessive private dwellings.

Retention of existing towers & slab buildings.

Build upon the existing street grid.

Improve pedestrian connections.

Respect the existing green grid.

A larger signature park located next to the metro station.

CITY OF SYDNEY ALTERNATE PLAN



Fig. 3.2.117 City of Sydney Alternate Plan - March 2019 Source: City of Sydney, 2019



3.2.10 CONSULTATION WITH CITY OF SYDNEY

of Sydney on the Preferred Masterplan **South Indicative Concept Proposal** Key feedback and issues raised by the City informed the development of the Waterloo

Collaboration for shared planning outcomes

A collaborative approach to strategic planning is particularly important for arrangements can provide greater certainty to the community that strategies and measure infrastructure delivery should also be put in place to ensure responsibilities, resourcing, and accountability. Review processes to monitor arrangements established in the early phases of planning to identify roles and these areas. Effective collaboration must be underpinned by governance precincts and corridors where 'placed based' strategies require a coordinated and plans can be delivered within time-frames and budgets, be optimally the collaboration process is transparent and effective. Such governance approach to ensure their delivery will align with the growth strategies for managed into the long term, and achieve desired outcomes for industry and

of Sydney to agree on a way forward. Feedback on the Preferred Masterplan stated within the City of Sydney Alternate Plan: identified a number of elements for consideration based on the key principles The Preferred Plan underwent a consultative collaborative phase with the City

Reduce community disruption

community cohesion. This can be better achieved through a reduction in typical building size and careful staging. To allow all residents the opportunity to return to the Estate to maintain

Consider Aboriginal and Torres Strait housing

of the social (affordable rental) housing is designated for the Aboriginal and Work with the various communities so that a significant and specific proportion

Rescale the neighbourhood

The majority of dwellings will be in buildings of comparable height and floor

Reduce the need for private dwellings

existing tower and slab buildings within the Estate Reduce the need for new' buildings by retaining, refurbishing and updating

Build upon the existing street grid

good accessibility with high legibility Reinforcing the existing street grid helps to define this locality by maintaining

Improve pedestrian connections

be maintained for residential access. links for improved pedestrian permeability. George Street and its trees should The large blocks in the north should be broken down with safe through-site

Respect the existing green grid

It should aim to target 35per cent large trees, 10 per cent civic scale trees; with no more than 40per cent in any one family, 30 per cent in any one genius and along footpath and cycle connections canopy coverage (356 trees). The green grid should extend beyond the site area is City of Sydney road reserve currently providing 38 per cent of the 10 per cent in any one species for diversity and resilience. Thirty per cent of the

Provide a large signature park next to the future metro station

Consolidate the small and large parks into a single park

Preferred park location

and Wellington Streets and would involve the closing of Cooper Street. The preferred park position would be bounded by Cope Street, Raglan, George

Key outcomes from this process centred on agreement on the following:

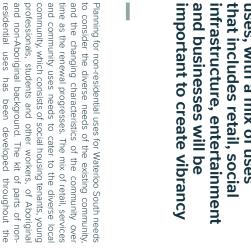
- Lower built form (up to 32 storeys)
- Larger central park
- Wider streets
- Tree retention targets
- Possible retention of slab and tower buildings
- No reduction in existing street widths
- George Street to remain in its current configuration in the short term with a process to move towards pedestrian prioritisation in the future.
- Regional cycle path to remain along George Street
- Location of large park adjacent to the Waterloo Metro Station
- Clarified definition of solar access to parks to be a fixed location
- A secondary park located to the south of the Estate for more equitable
- delivered first ahead of Waterloo Central and Waterloo North Renewal of the Estate to be in three stages, with Waterloo South

Fig. 3.2.118 Summary of Considerations



/////////3.2.11 KIT OF PARTS (NON-RESIDENTIAL USES)

and businesses will be that includes retail, social uses, with a mix of uses infrastructure, entertainment important to create vibrancy Providing supporting land



Existing community needs

masterplan process with consideration to:

- The needs of the future community Vision and objectives for the Precinct
- Benchmarking against the offerings at other high density Point/Macleay Street and Wolli Creek) residential locations across Sydney (that includes Potts

facilitating movements for 18 hours a day. and on weekends, with the future Waterloo Metro Station future; and also to draw people in from across the broader the needs of local residents and workers; both existing and region through uses that activate the Estate in the evenings The retail and ancillary non-retail offer is based on meeting

and planned in partnership with local service providers of existing and future residents, including private and social Community and cultural facilities will need to be flexible capacity of existing services and facilities to meet the needs Ongoing consultation with service providers will confirm the well-located close to public transport and other facilities This includes co-locating facilities to ensure they are who understand the needs of the local communities.



Fig. 3.2.120
Source: https://esperancetide.com, 2019 Source: https://www.firstchoicebb.com.au, 2019



co, 2019



Fig. 3.2.121 Source: http://www.thecommune.



Source: https://www.marketingmag.com.au Source: LAHC, 2018 Fig. 3.2.122 "It's possible to love a bank"





Fig. 3.2.123



Fig. 3.2.124 Storytime Source: https://www.probuild.com.au,



Fig. 3.2.125 Fig. 3.2.126 Bike repair workshop Source: https://dynamic.archite.cure.com.au Source: LAHC, 2018





Fig. 3.2.127 Source: LAHC, 2018



Fig. 3.2.128 Source: https://injalak.com, 2019



Source: Turner, 2019 Fig. 3.2.129 Easter egg painting



Fig. 3.2.130 Source: https://www.rmycph.com.au, 2019



Fig. 3.2.131 Rock climbing Source: LAHC, 2018



2019 Source: https://cityofsydney.nsw.gov.au, Fig. 3.2.132

Refer to Appendix 7.4 for further information

3.2.12 FEATURES

Through the options development and testing, a range of key features for the Indicative Concept Proposal emerged that were integral to the renewal of Waterloo South into a great urban place. These are:



A distinctly Waterloo public domain

ig. 3.2.133

with a strong local character and

community belonging.



Integral Aboriginal culture and placemaking.



A highly connected active transport hub. A pedestrian priority walkable precinct.



Accessible and inclusive green environment and hierarchy of open spaces.



spaces supporting social connectedness. Gathering areas and communal



A high performing and activation ready public domain and nonresidential uses.



An accessible range of local

retail to meet everyday needs. community facilities, services and



Accessible jobs and educational opportunities.



dwellings. A mix and choice of tenure blind social, affordable and private



User and contextual responses to built form.





Blue line



FRAMEWORK

PLANNING PROPOSAL REQUIREMENT

Government Architect Better Placed strategy. The built form should be developed in line with the design process described in the NSW Urban Design Report

A precinct plan that integrates:

- Public domain
- Infrastructure
- Building types
- Height distribution and massing

streets, walkways or other public spaces and servicing considerations to the public domain. shared paths and streets, including an accurate CAD set-out showing the boundaries of any Provide a Public Domain Plan identifying any proposed public spaces, walkways, laneways, Chapter 4.0

ADDRESSED IN

Appendix 7.10

Appendix 7.3 Appendix 7.8 Appendix 7.4 Chapter 4.0 - 6.0

Chapter 6.2

Appendix 7.5

Appendix 7.3 Chapter 6.0

ADDRESSED IN

SSP STUDY REQUIREMENT

- Prepare a precinct plan that integrates: the public domain plan, community facilities and surrounding context. massing for the site. Demonstrate how this fits within the overall State Significant Precinct plan, indicative subdivision plan, infrastructure plan, staging plan and building types and Chapter 4.0 - 6.0 Appendix 7.4 Appendix 7.3 Appendix 7.7 Appendix 7.5
- Demonstrate how the urban design principles have informed the allocation and location of proposed land uses

2.11

- pedestrian/cycle paths. Integrate the public domain plan identifying proposed public park, square and streets and
- 2.17 Integrate the findings of other parts of this study and demonstrate how these have shaped the Public Domain Plan and the building typologies to meet their requirements. In particular, how the design of building types respond to ESD, wind, flooding, noise and Appendix 7.3 Appendix 7.5 Chapter 4.0 - 6.0

Public Domain: Public Open Space & Streets

- Provide an open space plan for the precinct, locating precinct park(s) derived from site of users, and location in relation to existing parks optimises use for the surrounding away from busy roads, noise and pollution, how size is suitable for the number and types in relation to slope; and how the flexibility and extent of use is maximised by locating accessibility to the new park(s) is maximised by surrounding street interfaces, and location analysis, benchmarking assessment and urban design principles. Demonstrate how Appendix 7.2.1 Chapter 4.0 Appendix 7.3 Chapter 6.0
- 3.6 Provide a layout plan of the public streets, lanes and walkways, identifying street hierarchy, the development lots. Provide detailed sections and plans for typical conditions in each type of street, demonstrating innovative and best practice design for high density, highly typologies, movement patterns for all modes of travel, connectivity to existing context and connected, and active transport priority environments. Chapter 4.0 Chapter 6.0 Appendix 7.3
- Provide a public domain plan incorporating the open space plan and street layout and demonstrate how it responds to the analysis and the urban design principles.

Chapter 4.0 - 6.0

3.13 In all of the above, demonstrate consideration and application of City of Sydney public Chapter 4.0 - 6.0 Sydney draft Codes domain codes where appropriate, including the Streets Code and Technical Specifications, Legible Sydney Wayfinding Strategy and Design Manual, and any other relevant City of Appendix 7.3

character of Waterloo, connects people to services and transport nature and enhances access to amenities, An urban village which respects the

community and stakeholder engagement processes and options testing as key and place performance potential, and the incorporation of feedback from the key design insights from the baseline and context analysis, their placemaking central features of the masterplan that respond to the vision and objectives and nature and enhances access to amenities, services and transport. It illustrates the This chapter describes the Waterloo South Indicative Concept Proposal; An urban village which respects the character of Waterloo, connects people to

physical framework and layers of the masterplan, with the public domain, open were uniquely derived through the masterplan process space and landscaped elements shaping the built form response, all of which the physical character of the masterplan are also outlined. These illustrate the The public domain, open space, urban and built form elements that define

Chapter 4.0 - 6.0 Chapter 4.0 - 6.0

Appendix 7.8

Appendix 7.3 Appendix 7.4

and evidence based approach to developing the vision, objectives, insights choice and access to services, amenities and open space. The balanced distinctive, welcoming and authentic place that will evolve over the life of the Estate unique and retains the qualities and characteristics that will make it a layers of the people and place, that builds upon the attributes that makes the that is uniquely Waterloo, that recognises and celebrates the history and many principles, measures, frameworks and drivers has also resulted in a masterplan to active transport options, combined with employment opportunities, housing government policies and strategies to locate Sydney's growing population close The Waterloo South Indicative Concept Proposal aligns with state and local

RETAIL, SERVICES &

- ① VILLAGE GREEN
 Supports community gatherings, events, recreation, productive landscape and water management

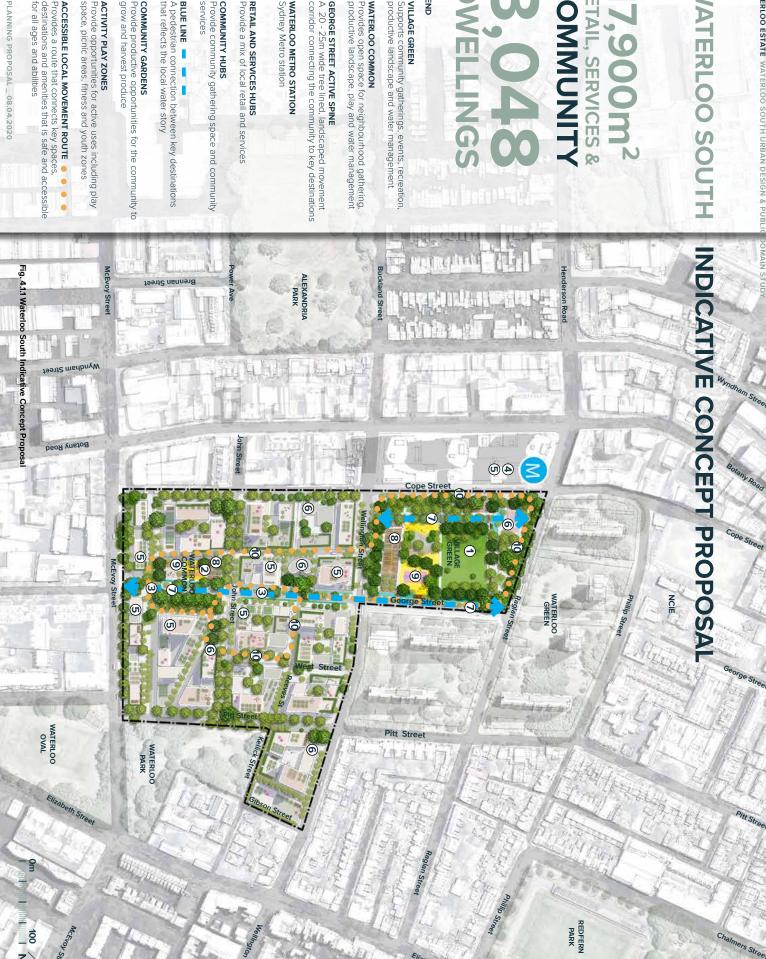
WATERLOO COMMON
Provides open space for neighbourhood gathering, productive landscape, play and water management GEORGE STREET ACTIVE SPINE

- WATERLOO METRO STATION
 Sydney Metro station

- **RETAIL AND SERVICES HUBS**Provide a mix of local retail and services
- **COMMUNITY HUBS**Provide community gathering space and community
- BLUE LINE -
- that reflects the local water story A pedestrian connection between key destinations
- 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
- ACCESSIBLE LOCAL MOVEMENT ROUTE • • Provides a route that connects key spaces, destinations and amenities that is safe and accessible for all ages and abilities



4.1 MASTERPLAN FRAMEWORK

amenities, services and transport character of Waterloo, connects people to nature and enhances access to An urban village which respects the

the surrounding neighbourhood, with distinct characteristics and experiences domain response to create threesub-precinct character areas that respond to existing identity. Key design drivers have informed the urban design and public Concept Proposal recognises, retains and builds upon Waterloo's heritage and the community to nature and Greater Sydney. The Waterloo South Indicative The vision for Waterloo South creates a distinctive urban village that connects

SHARED COMMUNITY

tenure blind mixed community and productive landscapes support affordable programs that responds to the existing and future community's needs. The supports social connectedness. The public domain will be supported by local mix of community, services and shops responds to local everyday needs and for a variety and mix of uses to support social interaction at different scales. A experience. To build upon this strength, the public domain and built form provides Waterloo has a strong and resilient community bonded through common

Green and Waterloo Common. The north-south George Street alignment will of old and young. Key elements are two new public open spaces, the Village A variety of spaces facilitate the social life of the community and the needs promote more intimate social interactions. An accessible local movement community anchors to each sub-precinct character area, and social corners be renewed into an Activity Street to connect the Estate. Urban plazas provide route (ALMR) provides safe connections to promote active transport modes.



Source: Virtual Ideas, 2020

LIVING CULTURE

of services and facilities will be refined through an on-going commitment to for Waterloo South that reflects the diverse contemporary culture. The location existing and future community's needs, and a place based public art strategy multi-cultural community gardens, the provision of services that respond to the identity and Indigenous heritage to connect past, present and future Waterloo. working with the community in further shaping the spaces and services This is recognised by the inclusion of edible landscapes in the public domain, The vision for Waterloo South reflects and builds upon the diverse cultural



Fig. 4.1.3 'Big Roof' within Village Green Source: Virtual Ideas, 2020

BLUE / GREEN

through the public domain. The integration of biophilic principles will connect strategies that visibly celebrate water and provide a cultural interpretation through water play, water sensitive urban design (WSUD) and bio-filtration cultural significance of water by weaving the water story into the public domain health and well being, by providing access to green amenity and connection to nature through natural materials and forms. The Blue Line connects to the network supports the open space network and urban forest, and promotes connects people to nature. The finer grain green streets and pedestrian future public domain. A network of landscaped open spaces that include and provides the opportunity to re-interpret the qualities of Waterloo into the Blue / Green connects to the cultural significance of the traditional landscape people to nature public spaces, publicly accessible private space and private communal space



Source: Virtual Ideas, 2020 Fig. 4.1.4 WSUD

KEEP IT LOCAL

of significance retain and build on the existing street character. With an areas stitch Waterloo South into the surrounding community. overarching ethos of 'keeping it local', the character sub-precinct character mix of building frontages provide for a diversity of active uses at street level and creative area, is reflected through the fine grained urban character. A Aboriginal people and post settlement as a place of industry and a maker The retention and adaptive re-use of existing heritage buildings and items Waterloo's heritage as a productive place, a productive landscape for the



Fig. 4.1.5 Waterloo Common community garden Source: Virtual Ideas, 2020

URBANITY

community and provides housing choice. The urban and built form enables A mix of housing and neighbourhood character areas reflects the diverse create vibrancy. uses (such as retail, social infrastructure, entertainment and businesses) will including transport, open space, and mix of uses. Providing supporting land the existing local character will be important. The offering must be intensified the needs of the growing community. As Waterloo South is renewed, retaining the sustainable evolution of the ground plane to non-residential uses to meet scales of use. Adaptable basement, ground and first floor levels will enable these uses through building types and heights that support different types and



Source: Virtual Ideas, 2020 Fig. 4.1.6 Local shops at Waterloo South



4.2 MASTERPLAN STRUCTURE

- 4.2.1 Environment and Open Space
- 4.2.2 Transport, Streets and Connectivity
- 4.2.3 Housing and Neighbourhood Design
- 4.2.4 Community Facilities, Services and Shops
- 4.2.5 Culture and Community Life

"Cities have the capability of providing something for everybody, only because, and only when, they are created by everybody"

Jane Jacobs*

This section illustrates the key elements of the masterplan under the five thematic layers that were identified by the community and stakeholders as critical to ensuring that the masterplan will deliver a great urban place.

The underlying framework for the masterplan is the size and location of the main public open spaces, the Village Green and Waterloo Common, and the secondary open space network of pocket parks, social corners and landscaped setbacks, all of which support the retention of the tree canopy and provide locations for its replenishment, which will enhance Waterloo South's landscape character.

Waterloo will become a distinct urban village experience which connects people to each other, to nature and the greater city of Sydney. With the Metro Station on Waterloo's doorstep, an active transport hub surrounding the Metro Quarter will facilitate the regional gateway and provide a central location for retail, community services and community spaces.

With a large Village Green and Waterloo Common positioned along the George Street activity street and within a pedestrian priority precinct, public open space will be accessible to the community and support community gathering and a range of active and passive uses.

The green public domain will celebrate the layered natural and cultural history of Waterloo and its proud community. From the Waterloo wetlands, to the history of industry and innovation, to the lofty trees, the diversity of cultural backgrounds and the networks between neighbours, the stories and community voice will be shared and act as a link through the community.

A liveable and mixed community will be supported by local retail and community services and facilities including a variety of housing choices and building typologies. Active streets and small neighbourhood areas which reflect community character and responses to place support the daily life of the community.



WWW 4.2.1 ENVIRONMENT AND OPEN SPACE

an active, welcoming and safe environment resilient characteristics by creating highlighting Waterloo's unique and Strengthening community and

Estate's existing and future community enable flexibility of use, catering to the diverse needs and lifestyles of the existing significant and unique features to create an active, safe, adaptive and resilient public domain. This will promote community interaction and Waterloo South's public domain framework and strategy draws upon its

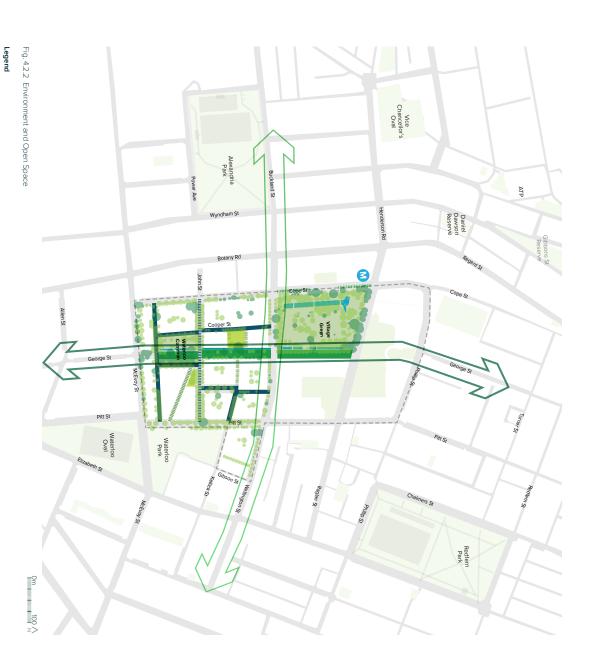
corners, publicly accessible private spaces and private communal spaces of open space typologies that include urban plazas, pocket parks, social Waterloo South. Public open spaces are supported by a diverse range provide distributed and equitable open space in the north and south of Contributing to the existing network of open spaces, two new local parks

at a community level. South both within the public and private domain. This includes community members, irrespective where they reside, and promote social interactions gardens provided within the two local parks that cater for community Productive landscape opportunities are maximised throughout Waterloo

and connection back to Indigenous land management practices both at ground and roof levels that serve and promote social interactions throughout the public and private domain as a resource for the community between residents. Edible landscape and bush tucker will be provided Smaller community gardens are provided within private communal space

It provides a public domain with an ecological and sustainable response Water sensitive urban design (WSUD), water play and detention under the two new parks celebrates the historical and cultural significance of water. and the City of Sydney. that aligns with regional and local strategies set by the NSW Government

Refer to Appendix 7.3 for further information



Liveable Green Network
Open Space Green Grid

George Street Activity Street
 Water Feature/ Bio Retention

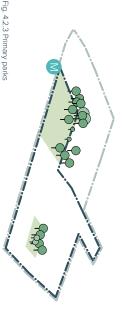
Shared Slow StreetLaneway Shared Street

IIII Pedestrian & Cycle Access Laneway
III Pedestrian Laneways

Existing Open SpaceExisting TreesProposed Trees

Pedestrian Crossing

PRIMARY PARKS



Two key defining open spaces for Waterloo - the Village Green and Waterloo Common - provide an equitable distribution across Waterloo South

street. 2.5 hectares of public open space are provided in these two parks treelined spaces are connected to one another via the George Street activity Common to retain existing trees. with an additional 0.07 hectares of landscaped open space next to Waterloo Common. Both parks offer active and passive spaces for the community. The The two majors parks within the Estate are the Village Green and Waterloo

URBAN FOREST STRATEGY



Fig. 4.2.6 Urban forest strategy

Waterloo South will provide a mature canopy that will provide shade and greenery to a target 30 percent of the total area of Building upon the City of Sydney's urban forest strategy, Waterloo South

and productivity through edible species. Bush tucker species will connect back domain. The types and diversity of species provided support flora and fauna tree will target 30 percent canopy cover, with 50% trees within the public will shade the streets across Waterloo South to reduce the effects of the urban to Indigenous culture. heat island effect. A 3:1 replacement ratio for every high and moderate value The canopy cover will provide respite from the heat of the summer sun and

PRODUCTIVE LANDSCAPES



Fig. 4.2.4 Productive landscapes

edible planting and a range of community gardens are provided at different scales to promote social interaction among residents Respecting the area's history as a productive landscape,

private domain. landscape will be provided as edible landscape both within the public and development lots for residential community within blocks. Thirty percent of the communal gardens, private food gardens and rooftop gardens within the Village Green and Waterloo Commons for the wider community and The hierarchy of productive landscape includes community gardens provided i

TREE LINED VIEW CORRIDORS

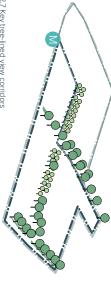


Fig. 4.2.7 Key tree-lined view corridors

Key tree lines along major view corridors are retained and enhanced through landscape setbacks that retain significant tree groupings

provide scale, canopy and amenity. The key tree lines along Raglan, Wellington and George streets as a group located along major view corridors in Wellington, Cope and George streets. Landscape setbacks are provided for the retention of significant tree lines

BLUE LINE



Fig. 4.2.5 Water-sensitive urban design within public domain

integrated water management that is embedded as part of the public domain through WSUD, water play and detention under the two local parks The cultural significance of water is celebrated through

water, as a gathering place and a place for food and resources. be integrated and provide interpretation of the Indigenous cultural significance of management, WSUD strategies and play and learning features or elements will Integrated water management will weave the site's water story. Technical flood

TREE RETENTION ZONES

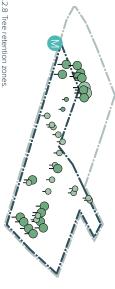


Fig. 4.2.8 Tree retention zones.

zones for medium and high value trees within development lots that balance flexibility for a range of architectural responses Significant tree clusters are retained through tree retention

Significant fig groupings are located at key corners within Waterloo South and contribute significantly to the canopy cover. well as clusters of trees located at the interface of the public and private domain Tree retention zones are provided for the retention of significant individual trees as



WWW 4.2.2 TRANSPORT, STREETS AND CONNECTIONS

active transport hub will provide retail, Sydney, and the Metro Quarter connect the community to Greater priority precinct, Waterloo Station will community services and facilities Establishing the Estate as a pedestrian

will be through the adaptation of key movement networks (pedestrian, strategy, Waterloo South will become a pedestrian priority precinct. This through topographical and traffic challenges. With a renewed movement connections between key locations within the Estate and Greater Sydney safe design principles. for car parking, an accessible movement route, and implementation of public transport and cycle) alongside considered locations for, and rates using public transport. The present pedestrian network limits efficient movement for pedestrians of all ages and abilities, cyclists and those Waterloo South will support a connected community, with ease of

streets. Movement will be simplified and includes an Accessible Local George Street will be retained. improve active transport connections. The existing cycleway along Movement Route. This route has been designed to offer clear, safe and streets, pedestrianised laneways and widened footpaths, will significantly Waterloo South, for all people of all ages and abilities. New shared slow accessible connections, to all key destinations and activation hubs across The pedestrian and cycle network will bring activation to Waterloo's

throughout Waterloo South. station is critical to Waterloo becoming part of the 30 minute city, as well including cycling and walking, will be greatly improved. The future metro consideration in the layout of key open spaces, connections and uses as being an activity centre and hub for services itself. This is a primary Waterloo Metro Station, the connections between active transport modes, With strengthened street connections, and the introduction of the the main public transport service to the Estate is the Sydney bus network additions to the street grid and increased street functionality. Currently The pedestrian connections towards these stops could be improved. The existing public transport and cycle network will be strengthened by

Refer to Appendix 7.3 for further information



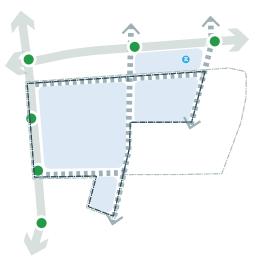
— Pedestrian Laneway

ent Route

Social Corner

Community Hub

PEDESTRIAN PRIORITY PRECINCT



Legend Fig. 4.2.10 Pedestrian priority precinct 0m 200 A

Arterial Road -- Local Streets Pedestrian Priority Zone

Signalised Intersection Waterloo Station

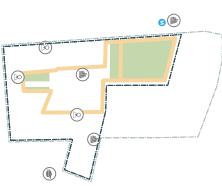
Re-establishing Waterloo's streets as places for people, to provide a walkable urban place with 82 percent of Waterloo South's streets as slow streets

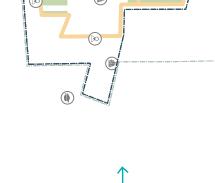
to a maximum of 40 kilometres per hour along existing local reduced speed levels, ranging from pedestrian only traffic laneways. Streets across Waterloo South will function at developed with local streets, shared slow streets and The fine grain street network and hierarchy has been

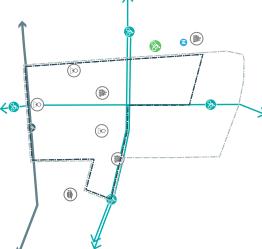
diversity of movement offered will promote and encourage all people will be vastly improved. The clarity, safety and in signalised and marked crossings, the ease of access for South. With wider footpaths, shared paths, and increases accessible corridors into residential areas of Waterloo the fine grain nature of Waterloo, providing safe and active transport modes and connectivity. The connected street network focuses on re-establishing

ACCESSIBLE LOCAL MOVEMENT ROUTE

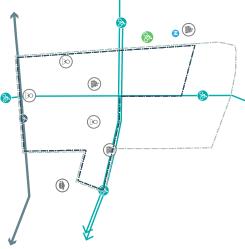
CYCLE NETWORK











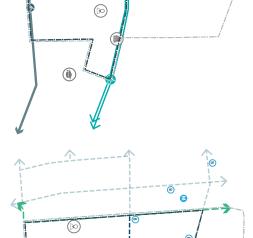




Fig. 4.2.11 Accessible local movement route

A place that is equal for all, with safe and accessible movement throughout the Estate

0m 200 ^

Fig. 4.2.12 Cycle network

0m 200 ^

Waterloo Station Pedestrian Movement Zone

Bus route (outside Estate)Train alignmentMetro alignment

Bus RouteBus StopWaterloo Station

.... Shared Cycle Routes

Dedicated Cycle Routes

Sydney Park to Centennial Park
 Cycle Storage Location

Metro Cycle Storage

Educational Building Community Hub Social Corner

and cycle friendly environment be greatly increased, promoting a well connected As a pedestrian priority precinct, cycle safety will

regionally A connected community, both locally and

movement and providing walkability throughout Waterloo The ALMR will facilitate an active community, encouraging that connects key public spaces, destinations and amenities. safe and accessible walking and cycling route for all ages The Accessible Local Movement Route (ALMR) provides a

connection to key places (including the Metro Quarter, major strategies, amenity stations, safe lighting, sun and shade, and ground level activation parks and community buildings), public art and interpretation The ALMR will be characterised by clear wayfinding

> Street the north-south regional cycle route will be retained active transport modes. With the improvements to George talong Raglan and Wellington streets. and provide direct access to the future Waterloo Metro Station storage areas (short and long term) will encourage and promote All cycle paths will be part of the shared pathway network Separated cycleways, pedestrian priority streets, and bicycle

Wellington streets, with the inclusion of new stops, provides Metro Station. Bus routes east and west along Raglan and Redfern, from north to south, to the Estate and the Waterloo Waterloo and Alexandria. good bus connections to and from the adjacent areas of bus services will connect Central Sydney, Green Square and connecting the Estate to the Greater Sydney area. Botany Road The Metro Quarter will be an important activity centre

travel. These include Central Sydney, Chatswood to the north, Hurstville to the south and Parramatta to the west key destinations within Greater Sydney, within 30 minutes of The future Waterloo Metro Station will connect the Estate to



WWW 4.2.3 COMMUNITY FACILITIES, SERVICES AND SHOPS

a liveable local neighbourhood that Active streets and character areas create facilities support a mixed community. reflects the strong, resilient community Local retail, community services and

and encourages the community to engage with and experience the public Waterloo South weaves together what residents, workers and visitors will domain through active transport modes. The retail vision and strategy for activity and social interaction along key routes. It connects key destinations In order to renew Waterloo South into a complete neighbourhood that for a sustainable community. experience as a place of connection and quality, providing the foundation promotes a variety of social interactions the land use strategy focuses

everyday needs of the existing and future community offer will balance convenience and neighbourhood character to meet the and learning opportunities. Community facilities, services and the retail domain. The future metro station will provide access to jobs, education over time to support a high performing and activation ready public A mixed use zoning across Waterloo South allows for flexibility of uses

supermarket to the south, locating 80 percent of daily needs within 200m an activated connection between community hubs and the anchor different ages, means and cultures in a tolerant and universally enriching South - the George Street activity street and the Blue Line - provide South. Non-residential uses along the key connections through Waterloo spaces create community hubs that are dispersed throughout Waterloo convenience. Retail and community uses associated with public domain high street that supports the Metro Quarter's activity centre that prioritises local neighbourhood qualities and character through a distinctive retail people truly want to spend time. The non-retail uses balance Waterloo's community. At its core it will be a place for people to connect where The opportunity at Waterloo South is the bringing together of people of

and Redfern. Refer to Appendix 7.4 for further information community. This will support connection over time to neighbouring activity uses to respond to the increasing amenity needs of the growing growth and evolution of Waterloo South's ground plane to non-residential Adaptable basement, ground and first floors allow for the sustainable



HIERARCHY OF CENTRES AND HUBS

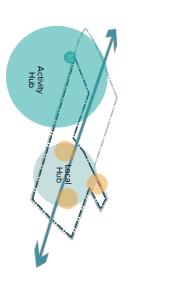


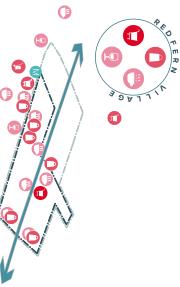
Fig. 4.2.15 Neighbourhood and local hubs of activities

Waterloo SouthWaterloo Metro Station — Waterloo Estate

Legend



SHOPS AND SERVICES









SOCIAL AND COMMUNITY FACILITIES



(

Fig. 4.2.17 Social corners and community hubs

PRE







Community Facilities

A hierarchy of activity hubs within Waterloo South supports social interactions at various levels - neighbourhood, local and street

street - a local scale retail high street with a supermarket anchor. Metro Station along Cope Street is supported by the George Street activity The Metro Quarter neighbourhood scale activity hub focused around the future

and choice. support local social interactions. The scale of activity hubs respond to the sub space located next to community anchors, pocket parks and social corners to interactions that are distributed across Waterloo South for equitable access precinct character areas to provide for a broad range of community and social The activity hub and spine are supported by small scale retail and community

Retail and services are connected directly to the future metro station by the new Blue Line that weaves the water story and associated public amenity through Waterloo South

station, to the key places in Waterloo South, and outwards to the surrounding Retail, community and cultural uses are distributed throughout Waterloo South along the Blue Line that provides direct connection from the future metro

of frontage widths support diversity of scale and affordability equitable access to, and responds to the needs of, the community. A broad mix The distribution of local retail and services throughout Waterloo South provides

An Accessible Local Movement Route provides safe, accessible and attractive connection that links social. community and cultural facilities

or anchor, and are co-located with larger open space typologies to provide for active and passive uses, and to support a range of social interactions Key community buildings within each sub-precinct provide a community focus

a safe, attractive and well-designed connection between these facilities (and more intimate interactions. The Accessible Local Movement Route provides smaller open space typologies - pocket parks and social corners - provide for amenities). In addition to the main community hubs, community uses associated with



WWW 4.2.4 HOUSING AND NEIGHBOURHOOD DESIGN

and distinct private domain to balance closer to nature and provide a liveable variety of building typologies. Vertical social life in the public domain neighbourhoods place more residents A mixed community is provided in a

a visually interesting skyline, with slender forms, achieved through small and neighbourhood level. The mix and range of tall buildings will create at the pedestrian scale and provide legibility and orientation at the local floor plates, that respond to solar access and wind mitigation. private dwellings. This is supported by a mix of non-residential uses that dwellings in an urban village of mixed social (affordable rental) and Waterloo South will provide approximately 3,048 new tenure blind

areas, each with an identifiable place character, that retains and builds on The framework for Waterloo South creates three distinct sub precinct

active uses. At ground level, non-residential uses within the Metro Quarter Station reinforces its role as a neighbourhood activity centre with a civic character by providing 'a green arrival'. An urban transition zone (urban The Village Green's location next to the Metro Quarter and Waterloo Metro

rise buildings provide a height transition and social corners provide Hilltop Village in the south-west responds to the topography and existing mix of mid rise courtyard typologies and heights up to 32 storeys. Mid Common to future development along Botany and Cope streets, with a Maker Village in the south-west provides a transition between Waterloo

Refer to Appendix 7.5 and 7.7 for further information

respond to the adjacent residential character and scale as well as the



Source: Virtual Ideas, 2019 4.2.18 Indicative CGI: George Street facing north, Communty hub plaza

STREET LEVEL EXPERIENCE



The character of Waterloo South will be defined by the

street level experience. Attractive public spaces and a well-designed connected street network will be supported by ground level activation along key routes that connects Waterloo South to its context and provides for a uniquely The public domain-led approach provides a localised environmental response

supported by through site link connections across blocks for a high performing existing and future community. The open space and fine grain street network is Waterloo public domain, to support the needs of the diverse and unique

and activation ready ground plane.



Fig. 4.2.22 A mix of frontages and uses provides a fine grain experience

grained pedestrian experience of lot sizes and frontage widths creates a varied and fine Non-residential uses provide activation at street level. A mix

of experiences, providing for 'local' retail, services and facilities domain. The diversity of frontages support a range of uses for variety and mix activated street level. Mixed use podiums provide for activation of the public building typologies supports a fine grained urban experience through a highly The diversity of lot size,s minimised vehicle and service entries and flexible

LOCAL LEVEL EXPERIENCE

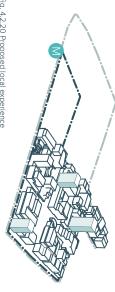


Fig. 4.2.20 Proposed local experience

At the local level, streetwall heights define the public domain and frame the street level experience

in plane or material is provided. Flexible dwelling typologies are provided in a of 6 storeys is provided for buildings that are 8 storeys or 8 storeys with attics. mixed and tenure blind community. Along key streets, this is achieved through setbacks, in other areas, a change provide a human scale to the street experience, a maximum perceived height Heights between 4 - 8 storeys are provided across most of Waterloo South . To

stitch Waterloo South into its surrounding context.

to the local past, present and future character, the sub-precinct character areas characterised by a different mix of built form typologies and uses. Responding Each sub-precinct character area has a community building as an anchor and is

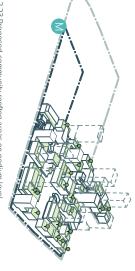
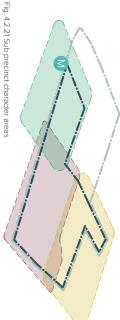


Fig. 4.2.23 Proposed community rooftop areas on podium level

increased greenery to Waterloo South and connects people Landscaped podium roofs and building façades provide

access and views. Enhanced amenity is provided due to their location, including imcreased solar to open space and provide additional typologies to the open space network. Rooftop gardens on low-rise and mid-rise buildings increase community access that meets the ground, to form an 'extruded' fine grain pattern along the street Taller neighbourhood (15-20 storeys) buildings provide for a slender 'infill' form

NEIGHBOURHOOD AND DISTRICT LEVEL EXPERIENCE



At the neighbourhood level, the mix of building heights and typologies work with the three sub-precinct character areas and connect to the surrounding context

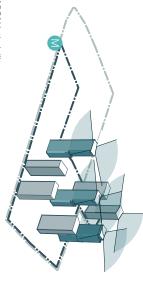


Fig. 4.2.24 Vertical villages

distinct landmarks to the skyline that will reinforce the Tall, free-standing and landmark buildings will contribute identity of Waterloo South and support wayfinding

nature through green façades and roofs principles integrated into the building design can connect the community to interaction at a smaller scale, creating micro-neighbourhoods. Biophilic Within taller buildings, vertical villages provide spaces that supports social



10 4.2.5 CULTURE AND COMMUNITY LIFE

engage the local community and keep of opportunities to reflect on culture, public domain will support community A landscaped and highly connected residents active life and interaction, providing a range

character, the community's strong sense of belonging and the integral Aboriginal culture. of Waterloo South, to build upon existing opportunities. These include leveraging the existing maker and creative industries, the strong local Numerous activation opportunities are provided as part of the renewal

community buildings will provide spaces for local residents to access to surrounding residents and communities. The high performing and key services, promote artistic responses and maintain connections create community anchors within each sub-precinct character area. The and social corners to facilitate community activities and interaction and buildings are co-located next to public spaces including parks, plazas equitable access to a mix of spaces for people of all ages. Community activation ready public domain and non-residential uses support social The key places will be hubs for activation within Waterloo South , providing

and temporary event spaces cater to all ages and abilities. The Blue domain that relate back to the original landscape features of Waterloo. story, with a strong focus along the George Street activity street, the continuous stream of activation and reference to the Indigenous water Line integrates the water story throughout Waterloo South, offering a the integration of the water story and bush tucker plants, within the public services, as well as educational opportunities (both spatially and through Route will make accessible the range of local community facilities and Village Green and Waterloo Common. The Accessible Local Movement Play spaces and water-play, multi-sport, social areas, community gardens

life of Waterloo South is supported by the highly permeable and active celebrate the past, present and future Waterloo to create a welcoming belonging. Refer to Appendix 7.3 and 7.4 for further information public art and activation of the public domain. The cultural and community the past and present will be celebrated through storytelling, integrated new urban village. The existing multicultural diversity and the stories of The public art strategy for the public domain will embrace, reflect and



4.2.5 CULTURE AND COMMUNITY LIFE

AMENITY AND ACTIVATION OPPORTUNITIES















Fig. 4.2.30 Goyder Square, Palmerston THELAWN

TEMP EVENT SPACE

Fig. 4.2.26 Fairfield Park, Fairfield

Fig. 4.2.27 Pink Street, Lisbon

Fig. 4.2.28 Sonder Boulevard, Copenhagen

Fig. 4.2.31 Besiktas Fish Market, Turkey

Fig. 4.2.32 Passieg de Joan, Barcelona

Fig. 4.2.33 Campus Maritus, Detroit

ENTERTAINMENT



Fig. 4.1.39 Public art opportunities

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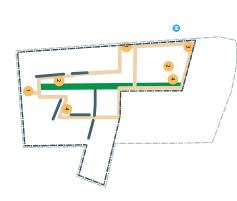
- Accessible Local Movement Route (ALMR)
 George Street Activity Street Public art opportunities
- WSUD

PRODUCTIVE

Fig. 4.2.34 Chippendale Green, Sydney

Fig. 4.2.35 Pirrama Park, Sydney

PUBLIC ART OPPORTUNITIES



- Legend

wayfinding Inclusive cultural integration throughout Waterloo South with public art potential for cultural expression, collaboration and

as an important element of the public domain. The primary art within the private domain will also contribute to the public community anchors, and integrated into the built environment Whilst these areas are the primary places for public art, public Accessible Local Movement Route and the open spaces next to locations for public art are streets and laneways, along the There are many opportunities for public art to be integrated

of public art typologies. These include sculpture, lighting, event areas and pavement / facade art. As a significant aspect temporary and fixed art, street art, murals, performance and contribution of these art forms to the identity of Waterloo South and voice for the Estate, the public art strategy will explore the Opportunities for public art are maximised through the range

Fig. 4.2.38 Brooklyn Grange, NYC



WWW 4.3 PUBLIC DOMAIN AND OPEN SPACE ELEMENTS

and its proud community and cultural history of Waterloo celebrate the layered natural The public domain will

the key components of the Waterloo South's open space Sustainable and regenerative design thinking underpins

social interaction at various scales as well as a diversity of open space typologies, to support provides equitable access to the Waterloo community by The open space network of public and private open space

George Street creates an open space spine connecting the two primary parks - Village Green and Waterloo Common.

spaces across Waterloo South through safe, well designed community are able to access key facilities, places and The Accessible Local Movement Route ensures that the

and provide education on sustainable urban production, Productive landscapes facilitate community connections, referencing Indigenous cultural values and the areas

8

GEORGE STREET ACTIVITY STREET

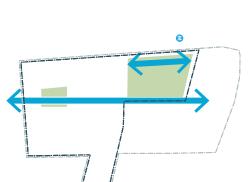


Fig. 4.3.1 Primary parks

Waterloo SouthWaterloo Metro Station

Primary Parks

historic presence of water to the area as a marshland, presignificance of water to culture and community and the The Water Story is an important reference to the Indigenous

heritage as a landscape of abundance for Aboriginal people.

Refer to Appendix 7.3 for further information

PRIMARY PARKS

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Fig. 4.3.2 George Street

0m 200 A

Fig. 4.3.3 Water Story

0m 200 \

Waterloo's defining public open spaces

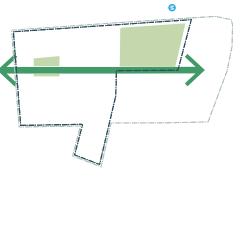
A wide tree lined, landscaped activity spine connecting the community to key destinations

west green links and connects the network of open spaces ages. George Street is the transitional anchor for the east green, tree lined character for pedestrians and cyclists of all George Street is transformed into an activity street with a that includes the Village Green, Waterloo Common, pocket parks and pedestrian laneways

community gardens, play spaces and temporary event communicate. Activation includes passive and active lawn for the community to gather, perform, create, reflect and The two majors parks within Waterloo South are the Village Green and Waterloo Common. Both parks offer spaces

primary contributors to activation along George Street, so sensitive urban design (WSUD), tree pits and opportunities that the Estate is kept active and safe, day and night. Water for waterplay run the length of George Street. Active retail frontages and key community hubs are the

THE BLUE LINE (THE WATER STORY)



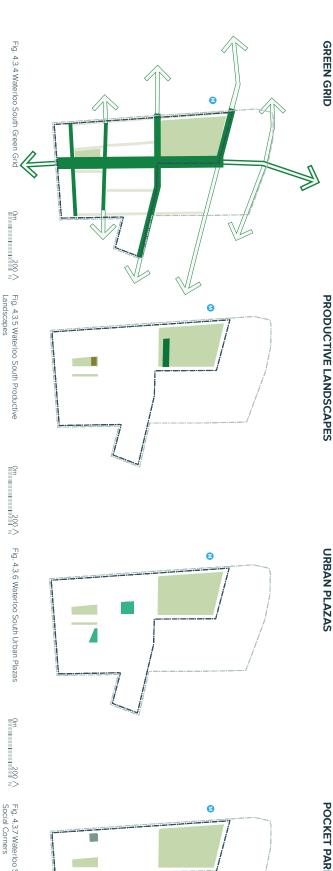




A pedestrian connection between key destinations that reflects the local water story

The Blue Line weaves itself through Waterloo South, beginning and ending at the gateway streets to the south-east and north and connecting to the surrounding

homage to the significance of water to the area, and anchors people. Together with George Street, the Blue Line pays respond to the cultural significance of water to Indigenous open space through Waterloo South. water play and tree-pits. These provide environmentally The Blue Line is defined by the presence of WSUD



Interactive, educational and productive landscapes for Waterloo's community

Community Gardens - Village Green
 Community Gardens - Waterloo Common
 Primary Parks

Green streets that connect Waterloo into Sydney's Regional Green Grid

Legend

 Open Space Network Green Streets

open space at ground level and rooftop levels within landscapes are distributed through the private communal courtyards and terraces. These initiatives reference bush distributed along George Street, pocket parks, communal provide a more local feel due to the size and more intimate use. A second community garden in Waterloo Common will The Village Green community garden will be the largest productive landscape, with its central location maximising development lots that cater for residents. South's future. Additional smaller scale productive that connects the natural heritage of the area to Waterloo tucker planting schemes through a modern interpretation location. A number of edible landscape initiatives are

Sydney's existing Green Grid, strengthening regional open space connections. The streetscapes of Waterloo South

The Green Grid weaves Waterloo South into Greater

maximise open space, and integrate Green Street policy

activation.

shade and cooling, and offer more inviting space for public

streets will improve the streetscape conditions through and WSUD best practice. The greening of Waterloo South's

community gathering space The urban addition that provides

South. These are co-located with community buildings and A number of urban plazas are located throughout Waterloo character area. The plazas support an activation ready together provide community anchors to each sub-precinct urban picnics. exhibitions, festivals, celebrations, street performances and the community to run and host initiatives including markets ground plane by offering flexible event spaces that allow

POCKET PARKS AND SOCIAL CORNERS

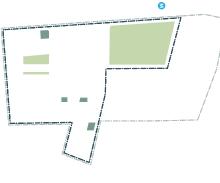


Fig. 4.3.7 Waterloo South Pocket Parks and Social Corners

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Pocket Parks & Social Corners

Facilitating social moments for the community

complete the social open spaces. Pocket parks and social domain as Waterloo specific responses setbacks that are shaped by the landscape and public to the existing context and result in building forms and uses at ground level. The setbacks are unique responses of amenity through a north facing orientation and active intersection of two or more streets, and provide a high level of Waterloo South. Social corners are located at the through reference to the past, present and future character temporary installations will enrich the spatial experience inhabit amongst significant existing trees. Street art and active and safe spaces for the community to entertain and corners are located next to pedestrian laneways, providing Throughout Waterloo South, pocket parks and social corners



WW 4.4 URBAN AND BUILT FORM ELEMENTS

A VARIETY OF SETBACKS

area's rich heritage into and build upon the urban context to integrate historical fine grained Drawing on the



context of inner-city local centres. neighbourhood context as well as the emrging and diverse typologies that respond to the human provide height diversity to respond to the existing scale and pedestrian experience. Taller buildings South is underpinned by the provision of flexible The urban and built form response for Waterloo

and pedestrian network of the public domain. the open space typologies and fine grained street The mix of block sizes and building heights support

sub precinct character areas and the proposed hierarchy of neighbourhood and local scaled The range of building typologies respond to the

Refer to Appendix 7.5 for further information

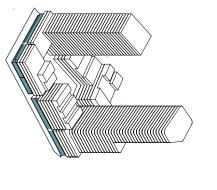


Fig. 4.4.1 Street level setbacks

Street Setback

Public and private domain interfaces that promote social interaction

- Promotes active uses along key streets by providing space for social interaction
- Provides space for landscaping and transition to private dwellings space along residential streets for increased privacy to

URBAN STRUCTURE

Fig. 4.4.2 Urban structure

- Street Alignment
 Open Space
 Solar Orientation
- Height focused along the new alignment that connects Waterloo South to open space, the new metro station and key destinations
- Provides amenity to dwellings through increased frontage Marks key junctions and alignments for greater legibility at the neighbourhood level
- to open space. and amenities. Locates people close to open space, transport, services

DIVERSITY IN SCALE

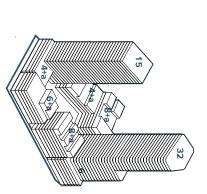


Fig. 4.4.3 Building scale

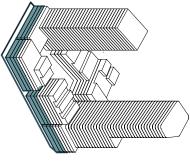
1,2.. Building Height (in storeys)

Variety and a mix of scale, architectural design and character in the built form creates a diverse and enriching urban environment

- Creates a varied and visually interesting skyline
- Defines the street edge to the existing and proposed street
- Provides amenity to public, semi-public spaces and streets, and private spaces

GROUND LEVEL INTERFACE

STREETWALLS



RELATIONSHIP TO CONTEXT



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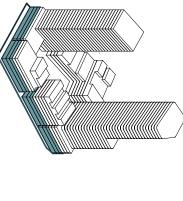


Fig. 4.4.5 Streetwall

Streetwall

Fig. 4.4.4 Ground level interface

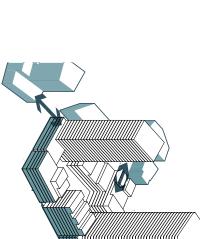


Fig. 4.4.6 Relationship to surrounding context

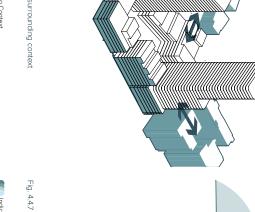


Fig. 4.4.7 Building design and composition

Interface with Surrounding Context

Indicative Building Composition

A fine grain ground plane that supports active uses enriches the public domain by providing a visually interesting pedestrian scaled street level experience

- Articulation and modulation provides visual diversity that A greater number of entries every 100 metres provides for promotes a vibrant environment.
- A balance of transparent and open façades at lower levels

an active ground plane.

- Provides pedestrian through site connections and access for non residential uses creates engagement with the public domain and visibility of activities.
- Fine-grained, pedestrian scaled, built form amenity is provided through the mix and variety of frontage sizes.

Streetwalls that respond to the human-scale provide a well defined public domain and crafts the street level experience

- Promotes passive surveillance for increased perception of Provides a pedestrian experience that promotes walking and cycling by making it enjoyable with good amenity.
- safety.

Height and massing transition that responds to existing and future context

- Provides a relationship to the existing context and considers
- Defined building heights across Waterloo South the future context along the Botany Road Corridor. the future built form. streets and public domain spaces and ensures amenity in development lots allows for more diversitty and grain in the
- Builds upon the existing surrounding character.
- items. Height in less sensitive areas allows for lower heights adjacent to heritage conservation areas, and heritage

High quality building design that provides amenity for residents

- Passive environmental design solutions provides greater amenity and reduces costs to residents.
- High quality materials reduce maintenance costs and Facade variation provides a change in form, proportion provide greater durability for the life cycle of a building.
- materials, glazing extent and proportion, material finishes interest. This can be achieved through building massing, position, quantity and composition to provide visual



5.0 CHARACTER

PLANNING PROPOSAL REQUIREMENTS

| PLANNING PRO | PLANNING PROPOSAL REQUIREMENT | ADDRESSED IN |
|------------------------------------|--|-------------------|
| A precinct plan that integrates: | that integrates: | Chapter 4.0 -5.0 |
| Public domain | ain | Appendix 7.3 |
| Infrastructure | ſ'e | Appendix 7.4 |
| Staging | | Appendix 7.5 |
| Building types | Des . | Appendix 7.7 |
| Height distri | Height distribution and massing | Appendix 7.8 |
| SSP STUDY REQUIREMENT | OUIREMENT | ADDRESSED IN |
| Urban Design | | |
| 2.6 | Prepare a precinct plan that integrates: the public domain plan, Chapter 4.0 - 6.0 | Chapter 4.0 - 6.0 |
| | staging plan and building types and massing for the site. Demonstrate Appendix 7.4 | Appendix 7.4 |

anonymous Sydney suburb - retain its of Waterloo - don't turn it into another create something true to the character "You have an opportunity here to feel & heritage..."

Survey respondent*

| 2.6 | Prepare a precinct plan that integrates: the public domain plan, Chapter 4.0 - 6.0 community facilities plan, indicative subdivision plan, infrastructure plan, Appendix 7.3 | Chapter 4.0 - 6.0 Appendix 7.3 |
|------|--|---|
| | staging plan and building types and massing for the site. Demonstrate Appendix 7.4 how this fits within the overall State Significant Precinct and surrounding Appendix 7.7 context. | Appendix 7.4 Appendix 7.5 Appendix 7.7 |
| 2.11 | Demonstrate how the urban design principles have informed the Chapter 4.0 - 6.0 allocation and location of proposed land uses. Appendix 7.4 | Chapter 4.0 - 6.0 Appendix 7.4 |
| 2.12 | Integrate the public domain plan identifying proposed public park, Chapter 4.0 - 6.0 square and streets and pedestrian/cycle paths. Appendix 7.3 | Chapter 4.0 - 6.0 Appendix 7.3 |
| 2.17 | Integrate the findings of other parts of this study and demonstrate how Chapter 4.0 - 6.0 these have shaped the Public Domain Plan and the building typologies Appendix 7.3 to meet their requirements. In particular, how the design of building types Appendix 7.5 to meet their requirements. | Chapter 4.0 - 6.0 Appendix 7.3 Appendix 7.5 |
| | respond to ESD, wind, flooding, noise and pollution issues. | |

Public Domain: Public Open Space & Streets

| 3.13 | 3.9 |
|--|--|
| In all of the above, demonstrate consideration and application of City of Chapter 4.0 - 6.0 Sydney public domain codes where appropriate, including the Streets Appendix 7.3 Code and Technical Specifications, Legible Sydney Wayfinding Strategy and Design Manual, and any other relevant City of Sydney draft Codes. | Provide a public domain plan incorporating the open space plan and Chapter 4.0 - 6.0 street layout and demonstrate how it responds to the analysis and the Appendix 7.3 urban design principles. |
| Chapter 4.0 - 6.0 Appendix 7.3 | Chapter 4.0 - 6.0 Appendix 7.3 |

provide activation and programming of those spaces. them all together. The key places are hubs for activation, engagement, and sub-precincts reside the key places of the Estate; the Village Green and social connectedness, and are anchored by mixed-use community hubs that will Waterloo Common. A pedestrian friendly George Street Activity Street connects characteristics; Village Green, Maker Village and Hilltop Village. Within these Placemaking activities defined three sub-precincts in the Indicative Concept Proposal for Waterloo Urban Village based on their existing and future place

Village Green, to the west is centred around the metro station and Metro Quarter, it is in the transitional area between Redfern and Waterloo, and includes the prominent intersection of George Street and Raglan Street.

centre, and is connected to the Village Green by George Street. industrial past around Cope and McEvoy streets, has Waterloo Common at its Maker Village, in the southwest of Waterloo South, retains evidence of its

Hilltop Village, in the southeast of Waterloo South, is characterised by its steep topography and its interface with Our Lady of Mt Carmel Church and School, Waterloo Park and Waterloo Oval.

^{* &}quot;Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 2018, p23.



5.1 WATERLOO SOUTH

them special, connected by a layered public precinct character areas, that draw inspiration from the surroundings and enhances what makes Waterloo Urban Village will be a group of sub-

character will provide place specific guidance to inform future development. define the precinct as a place today that relates them to the vision going forward. The place Waterloo's place character is defined by the specific, fundamental qualities that make it special These qualities are drawn across the social, economic, cultural and environmental aspects that

The place character of Waterloo is a community that is:

- Layered- Waterloo is the legacy of many hands and many stories
- Proud Waterloo is a place deeply embedded in its locality
- Distinct Waterloo is different, and that difference is worth celebrating
- Resilient Waterloo is grounded by its perseverance over time

as an opportunity to create unique places at the local scale, each with a distinct character. In evolving the framework for Waterloo South, sub precinct character areas have been explored identifiable character statement as presented on the following pages. The three sub-precincts (pictured opposite) are the result of this exploration, each with an

makes the streets and places of Waterloo special. built form and public domain that draws inspiration from the surroundings and enhances what future character of each sub-precinct is informed by this analysis, and offers directions for the land uses, landscape elements and the street network has been analysed. The proposed For each sub-precinct, the current context of the surroundings as expressed through buildings,

WATERLOO SOUTH SUB-PRECINCT CHARACTER AREAS



Fig. 5.1.2 Sub-precinct character areas

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10 5.2 VILLAGE GREEN

Green Waterloo urban village - the Village A green arrival into the heart of

CURRENT CONTEXT

Village Green is anchored by the major thoroughfare and commercial hub of Botany Road, and the area is a place of commercial and social exchange. such as the Australian Technology Park traditional gridded urban structure and providing connections to destinations Village Green is well-connected, with east-west streets reinforcing the

nature, bridging the leafy Alexandria Park and historic workers cottages of Wellington Street with Redfern Station Precinct, a contemporary transit interchange and growing urban hub. The surrounding street scape is highly At the nexus of a number of residential suburbs, the area has a transitional varied in character, and showcases a long history of trade.

> of distinctive buildings at major intersections. The material palette includes churches and pubs, residential and mixed use development, and a number purposed to accommodate changing needs. They sit alongside heritage Many commercial and light industrial buildings have been modified and rebrick, masonry and subway tiles

Botany Road. Façades, particularly on corner locations, are transparent and intimacy and attracts pedestrian activity, undeterred by the vehicular traffic of generous awnings, and some alfresco dining, all of which creates a sense of and informal, add character and express the community's sense of identity open up or provide visual interest to the public realm. Public art, both formal Commercial buildings are low-rise, feature narrow frontages, bold sign writing



ig. 5.2.1 The Cauliflower Hotel



Fig. 5.2.4 Corner of Botany Road & Buckland Street





Fig. 5.2.5 Shops along Raglan Street



5.2.3 Street art along Raglan Street



Fig. 5.2.6 Corner of Botany Road & Raglan Street



Fig. 5.2.7 Potential Uses in the Village Green

- Open lawn

 O Activity zone (i.e. play spaces
- Multi-sports courts, picnic areas)

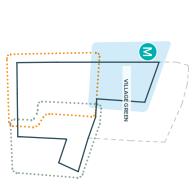
 © Community garden/small urban farm

 Dig roof pavilion, Gadigal Garden

 Big roof pavilen, Gadigal Garden

 Bilue line water story

 Park Amenities (i.e. BBQ, picnic areas)



The Village Green is characterised by its vibrancy and liveliness, with the Metro Quarter providing active uses and services that reflect the long history of trade and activity in the area. The Village Green will maximise connectivity with a green arrival that brings the community together and connects it to Greater Sydney

FUTURE CHARACTER

Village Green will combine the dynamism of the new Waterloo Metro Station and Metro Quarter, and the social water creational appeal of the Village Green. The daily life of the community will be supported by an engaging mix of uses that stay active around the clock and invite activity at the street level.

The synergy between the Village Green and the transport hub will be the defining relationship which makes this subprecinct unique. At the heart of the Village Green the proposed Gadigal Garden will combine a new distinctive community hub and multifunctional plaza, forming a continuous public realm which encourages play, exchange and engagement with the landscape.

The Blue Line weaves the area's water story along George Street and the Village Green through WSUD, water play and tree-pits. These provide environmentally responsive design solutions, increase activation and respond to the cultural significance of water to Indigenous people. Together with George Street, the Blue Line pays homage to the significance of water to the area, and anchors open space through Waterloo South.

The future character will be shaped by:

- A public domain integrated with public art to activate and differentiate the Village Green, encouraging play, exchange and engagement with the landscape.
 Cone Street will become a central seem providing both
- Cope Street will become a central seam providing both north-south and east-west connectivity, characterised by a pedestrian focus.
- The Blue Line through WSUD, water play and tree-pits.

FUTURE CHARACTER



LOOK AND FEEL



-ıg. 5.2.8 Waterloo Village Green: Character collage



M5.3 MAKER VILLAGE

manufacturing neighbourhood immersed in a history of Maker Village will be a vibrant local

CURRENT CONTEXT

traces of an industrial past. streets, centred on Cope Street and the busy McEvoy Street, still reveal Maker Village is steeped in a history of manufacturing. The surrounding

early 19th Century terraces along John Street coarse in scale, there are pockets of fine grain development, such as the commercial warehouses and low-rise industrial structures, with some repurposed and adapted. Whilst the predominant lot pattern is medium and Contemporary apartment buildings are mixed amongst large-format

McEvoy Street is a defining edge and one of the earliest streets that was development and the dam to the south. George Street runs perpendicular, established in the area, forming the original boundary between residential

providing a convenient and efficient active transit link towards the emerging neighbourhood of Green Square.

including the former Waterloo Pre-School. with some sawtooth forms. There are a number of heritage-listed buildings Street feature protruding forms, dominant balconies, and a varied roof profile detailing and balconies, while newer apartment buildings along McEvoy Victorian terraced housing in the area is made recognisable by its ornate

character and is featured across industrial and residential buildings old and Brick is the predominant material in the area, which reinforces the industrial



ig. 5.3.1 Corner of John Street and Cope Street



-ig. 5.3.4 Modern apartments along McEvoy Street



Fig. 5.3.2 Corner of John Street and Cope Street



Fig. 5.3.5 Modern apartments along McEvoy Street



5.3.3 View south along Cope Stree

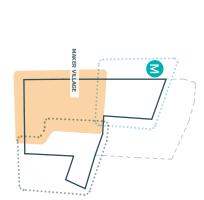


Fig. 5.3.6 Corner of John Street and Cope Street



0m 25 50 75

Fig. 5.3.7 Illustrative Maker Village



and continue to celebrate Waterloo's proud spirit of industry neighbourhood park, will house productive and creative activity Maker Village centres around Waterloo Common, a civic scale

FUTURE CHARACTER

productive and creative activity and continue to celebrate Waterloo Common and the Blue Line. It will buzz with Maker Village will be a vibrant neighbourhood, featuring Waterloo's proud spirit of industry.

of the productive and engaging public realm connecting to the Village Green along the George Street addressing the lack of usable open space to the south and Waterloo Common will be a major community amenity, This neighbourhood scale park will serve as a continuation

provide convenient connections to the Village Green, Hilltop establish the precinct as a pedestrian tocused place and Waterloo Common will be bound by laneways that will help Village and neighbouring communities and open spaces.

The future character will be shaped by:

- A highly walkable and permeable pedestrian network Waterloo Common, a neighbourhood scaled park.
- as a defining east-west connection will frame views up use,s will support street trading and vitality. John Street neighbouring precincts and adaptable ground floor of laneways, providing convenient connection to the towards Mount Carmel.
- terrace houses. Defined balconies (particularly on inspiration from both industrial buildings and traditional Street and materials and architectural elements will draw corners) and varied roof forms to add visual variety. Fine grain terrace typology will be reflected along Cope
- Fine grain retail and warehouse typologies will Mid-rise built form at the edges of the park will provide a transition between the open space and taller buildings
- Highly active ground floor uses surrounding the new encourage making and production uses.
- Awning elements will support pedestrian activity, community hub and plaza. alfresco dinning and street trading.
- movement flows, allow for the preservation of mature north of McEvoy Street to mitigate the effect of heavy trees, and accommodate potential future road widening. Adaptable ground floor addressing the laneway to the
- Retention of existing trees particularly at the corner of Cope Street and John Street.

FUTURE CHARACTER



Fig. 5.3.9 Illustrative Maker Village (mood) character collage

LOOK AND FEEL







5.4 HILLTOP VILLAGE

buildings Hilltop Village is characterised by its topography and nearby historic

CURRENT CONTEXT

Some contemporary buildings make reference to the area's industrial past mid-rise apartment buildings and low-rise Victorian cottages and terraces which reflect early settlement. The area is largely residential with a mix of Hilltop Village is characterised by its topography and nearby historic buildings with brick detailing, timber cladding, tiled façades and sawtooth roof forms

Carmel Church and School, are situated atop the sloped site, and the old Italianate Town Hall is nearby to the east. Little Waterloo Dam, an important resource for the early establishment of the area, would have been located The oldest surviving buildings still standing in Waterloo, Our Lady of Mount

Waterloo Park and Waterloo Oval offer places for active and passive

complement the public realm at the local scale. and undulating topography. Laneways and green street reserves in the area recreation, and add to the layered landscape qualities with mature trees

balconies, which provide passive surveillance to the street. number of buildings feature ground floor courtyards and upper storey to the streetscape to the north, despite a consistent terrace typology. A Different building details and configuration brings variety and visual diversity



ig. 5.4.1 Laneway off Pitt Street





Fig. 5.4.2 Our Lady of Mt Carmel Catholic Primary



Fig. 5.4.7 Illustrative Hilltop Village

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Fig. 5.4.3 Modern apartments opposite Waterloo Oval



Fig. 5.4.6 Dwellings along Wellington Street

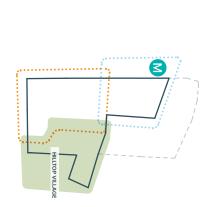


Fig. 5.4.4 Waterloo Oval

Fig. 5.4.5 Waterloo Park

Hilltop Village will be a place of discovery with laneways and landscape pocket parks stitched into the historic surroundings and layered

FUTURE CHARACTER

and pocket parks stitched into the historic surroundings and layered landscape. Hilltop Village will be a place of discovery, with laneways

with the Blue Line, Accessible Local Movement Route and invite playful exploration and reference the historic grid. the neighbouring sub-precincts, new internal laneways will defining edge to the north. Connecting these major streets McEvoy Street, and Wellington Street will continue to be a Pitt Street will continue south to provide connectivity to

back from the street wall edge. façade articulation. Tower buildings will be generally set low and mid-rise buildings with multiple street entries and reflected in Hilltop Village. Streets will be addressed by The varied fine grain character of nearby terraces will be

plaza to the south anchored by a new community hub. There will be small open spaces at street corners, and a

These interstitial outdoor places will complete the layered public realm and provide ample opportunities for creative expression and communal activity.

The character will be shaped by:

- New laneways, which are pedestrian focused, intimate in scale and intentionally offset.
- particularly along laneways and the Blue Line. in keeping with the existing streetscape character, low and mid-rise buildings with fine grain treatment A predominantly residential precinct, it will feature
- considerable change in topography. and school, characterised by generous trees and John Street as a view corridor up to the historic church
- non-residential uses with active taçades at the ground Wellington Street and the Blue line will feature varied activity, alfresco dinning and street trading. plane and awning elements to support pedestrian
- Tower buildings to be designed as vertical villages.
- residential character of the area. to gather and interact, reflecting the comfortable A new community hub to provide a spectrum of places

FUTURE CHARACTER



LOOK AND FEEL



ig. 5.4.8 Hilltop Village: Character collage