

North Sydney



Public Domain Style Manual & Design Codes

June 2024

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DATE	VERSION	PREPARED/UPDATED BY
28 MARCH 2014	Revision A Adopted	OCULUS
20 MAY 2014	Revision B	OCULUS
23 MAY 2014	Revision C	OCULUS
5 APRIL 2016	Revision D	OCULUS
5 MARCH 2018	Revision E	NORTH SYDNEY COUNCIL
15 FEBUARY 2019	Revision F	NORTH SYDNEY COUNCIL
15 JULY 2019	Revision G	NORTH SYDNEY COUNCIL
5 SEPTEMBER 2019	Revision H	NORTH SYDNEY COUNCIL
30 SEPTEMBER 2019	Revision I	NORTH SYDNEY COUNCIL
JULY 2022	Revision J	NORTH SYDNEY COUNCIL
17 JUNE 2024	Revision K	NORTH SYDNEY COUNCIL

Part 1:01 Introduction



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01 Introduction

1.1 Purpose

The purpose of the 'Public Domain Style Manual and Design Codes' is to outline North Sydney Council's approach to implementing public domain infrastructure improvements within the North Sydney local government area (LGA).

The document establishes a comprehensive set of objectives to create unified, yet distinctive precincts across the North Sydney LGA.

A new materials palette establishes the character for each precinct. Detailed plans and sections demonstrate how they are applied to create a consistent and high quality public domain.

The 'Public Domain Style Manual and Design Codes' are to be used in conjunction with the North Sydney 'Infrastructure Specification for Roadworks, Drainage and Miscellaneous' works which expands on the specification manual and provides further technical detail.

Standard technical details assist to realise a cohesive aesthetic for North Sydney as projects will be implemented over time in small often disconnected stages.

1.2 Scope

The 'Public Domain Style Manual and Design Codes' apply to all work carried out in the public domain which are under or will revert to the ownership, care, control and management of North Sydney Council.

It is encouraged that the codes be used for areas within the North Sydney public domain that are not under North Sydney Councils control to ensure a complimentary if not consistent finish is achieved in these areas. The document also sets the quality standard of what is expected in the public realm within and outside council land.

The manual is to be used when designing or constructing works on the streets and footpaths and parks of North Sydney Council LGA. Users of the manual include developers, design consultants, council officers, contractors, government organisations, community groups and North Sydney residents.

1.3 Design and approvals process

All works have to be approved by Council's nominated certifying officer.

All works must comply with Australian Standards and relevant approval authorities such as the RMS, STA, AUSGRID and other relevant authorities.

1.4 Policy context and framework

The code is to be used in conjunction with the following planning documents (Refer to Document Review in the Appendices in addition to the table below).

POLICY CONTEXT / FRA				
STATUTORY DOCUMENTS	STUDIES AND DESIGN STRATEGIES	MASTERPLANS	DESIGN CODES	PLANS OF MANAGEMENT
North Sydney DCP 2013	North Sydney Pedestrian Network and Amenity Study 1999	Waverton Peninsula Strategic Masterplan 1999	North Sydney Street Tree Strategy 2006	Asset Management Plans
North Sydney Local Environmental Plan 2013	Crows Nest Main Street Program 2002	Atchison Street West Masterplan 2005	Signage and Wayfinding Strategy	Plans of Management
North Sydney S94 Contributions Plan	St Leonards Public Domain Strategy 2003	Neutral Bay Shopping Centre Masterplan 2011		
	North Sydney Traffic Management Plan 2005	Crows Nest Public Domain Upgrade (2015)		
	North Sydney Recreation Needs Study 2005	Neutral Bay Public Domain Upgrade (2015)		
	North Sydney Water Based Recreation Needs Study 2006			
	St Leonards Strategy 2006			
	North Sydney Foreshore Access Strategy 2007			
	North Sydney Open Space Provision Strategy 2009			
	North Sydney Bike Strategy 2009			
	North Sydney Residential Development Strategy 2009			
	St Leonards / Crows Nest Planning Study - Precinct 1 + Addendum 2012			
	Education Precinct Planning Study 2013			
	North Sydney CBD Public Domain Strategy - Stage 1			

1.5 How to use the manual

The manual establishes eight different precincts within the North Sydney LGA. These precincts have been derived from the suburb and character statements outlined in section 3.1 which are consistent with the character descriptions outlined in councils LEP 2013.



The manual is then broken down into eight precinct type chapters. For instance 'North Sydney Centre'. The existing character of each precinct is outlined in the introduction of each chapter. Each precinct type has a distinct character and materiality appropriate to its scale, zoning and use which is detailed in a precinct materials palette.



Typical detail plans and sections illustrate the desired overall 'look' of each precinct and demonstrate how the materials palette is applied to main streets, laneways, shared zones, open space and other public domain areas.



The indicative materials palette consists of a series of detail sheets that provide a typical detail, indicative product image and notes detailing key features and installation requirements.



These materials are then summarised in a materials palette table for each precinct at the end of each chapter.

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The table lists what materials are required in each situation whether it be a main street, laneway, Shared Zone, plaza, park or open space.

The table is divided into categories that relate directly to the chapters of the 'Infrastructure Specification for Roadworks, Drainage and Miscellaneous Works.' It should be referred to for more detailed installation specifications.



The Appendices outline the analysis process and document review undertaken to arrive at the proposed precinct types and materials palette.

1.6 Materials note

Terms and/or trade names used to describe items or materials in the document are intended to define the style and overall appearance. They are not intended to be used as a product specification for supply purposes of such items or materials, nor are they intended to imply that they must be manufactured and/or supplied by the specific firms named.

Steps to follow



Select a location / street / park / open space.

Determine **which precinct** it is located in. Refer to the overall plan included in the 'Streetscape and open space context and location' chapter. Locate the precinct chapter and determine if it is a main street, laneway, shared zone, park or plaza.



Refer to the **precinct application illustrations.** Typical sections and detail plans for that type of street and precinct.

Familiarise yourself with the materials and details that are within that precinct type under the 'Indicative Materials and Furniture' section of that chapter.

- Review the relevant column in the **'Materials palette table'** to locate which items are relevant to your project type. Refer back to the **'Indicative materials and furniture'** section.
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Refer to **'Technical detail sheets'** and specification in the separate 'Infrastructure Specification for Roadworks, Drainage and Miscellaneous Works document if further information is required.

02 The Importance of great street design



02 The importance of great street design

2.1 What makes a street great?

Streets are the true public places of our cities and towns. Streets are for everyone to enjoy and occupy. The livelihood of these spaces and their adjacent uses rely on our ability to imbed them with beauty, facilitate and promote activity and most importantly, to ensure that they are comfortable, functional, safe and accessible for all members of our community to use.

Streets form a critical part of the public domain they are important places for people to meet and socialise, and in many ways, are key to the livability of our urban environments. Great streets can provide the setting and backdrop for street life and activity.

Streets provide routes and connections, not only for vehicles, but also for pedestrians and cyclists. Streets provide the primary way that we move and navigate around our cities, and serve to link neighbourhoods, centres, public transport nodes and open space together. In this regard, a balance is required between the various competing demands upon our streets, and particularly the often competing requirements of vehicles and pedestrians.

Great streets need to work on a number of levels, including their:

- character, interest and amenity
- functionality, accessibility and legibility
- comfort and usability
- sustainability

Streets can act as unifying elements, helping to provide consistency to the public domain in our dynamic urban environments, where adjacent built form and uses can change rapidly. At the same time, it is important that streets reflect and reinforce local identity and sense of place.





People

Activity



Greenery and amenity



WSUD and sustainability

2.2 Design Principles

Whilst every street should be considered to be a unique element within the public domain and designed accordingly, there are certain key design principles that can be applied to all streets to varying degrees as summarised below.

- Create streets that can provide a setting and backdrop for activity and events; meeting, socialising and dwelling
- Provide a highly connected and legible network that facilitates safe, accessible and convenient pedestrian and bicycle links particularly to activity centres, public transport nodes and open space
- Create streets that work with their natural and built setting to provide high levels of amenity and interest
- Ensure streets are functional, comfortable and safe for all users to be in
- Ensure streets provide accessibility and universal design for all users
- Use streets to create a unifying element within the public domain
- Allow the design and materials palette of streets to reflect and reinforce local character and place
- Ensure that streetscape design and materiality responds to the hierarchy / type of street
- Create high quality, robust and durable streetscapes

- Provide appropriate amenities for pedestrians and cyclists including street furniture
- Integrate street tree planting and other landscape treatments to improve microclimate and biodiversity
- Integrate WSUD into streets wherever possible to detain and treat urban storm water
- Allow for the integration of public art, interpretation strategies and installations specific to place
- Use materials with low embodied energy, high recycled content, local provenance, high durability, long service life and low maintenance.
- Design roads to cater to vehicles cars, trucks, buses as well as pedestrians and cyclists

2.3 Definitions : Streetscape Hierarchy

2.3.1 Main streets

Generally a main street is the primary retail street of the village, town or small city. Within this document the term 'main streets' covers arterial roads and other major roads. In most cases these roads have retail and commercial as the zoning control. A high grade finish is established in this manual for main streets due to their high use and visibility.

Due to the urban character and scale of main streets a large format paver is appropriate with a durable, hard wearing surface.

Main streets generally have at least one traffic lane in each direction in addition to a parking lane. The parking lane is critical in providing access to main street retail / commercial activities. Arterial roads may not have a parking lane as more room is required for the larger traffic volumes on these roads. Arterial roads generally have two lanes of traffic in each direction.

Pedestrian footpaths are generally wide and paved from kerb to boundary line / building line. Tree pit treatments are flush with adjacent pavements and are trafficable for pedestrians. Pedestrians are given priority over motorists within the footpath corridor.

2.3.2 Laneway

Typically a narrow road coming off a larger road. Laneways often act as service roads and often provide rear access to lots. Other services are often located in the laneway such as rubbish removal and deliveries.

Laneways are generally bordered by a consistent edge whether it be the building line, fences or hedges.

Laneways are often one way and may also contain one row of parallel parking.

Generally a more simple finish is applied in laneways due to their service function, lower visibility and reduced use by pedestrians.

A laneway's character is largely defined by its edge conditions and programming.

Depending on the size of the laneway it may or may not have a pedestrian path down one side. Pedestrian use is generally low.

2.3.3 Shared zone

A shared zone is a road space that accommodates both vehicles, pedestrian and cyclists safely. This is achieved by slowing down traffic to a maximum speed of 10km, providing visual cues and traffic calming that demonstrate that it is a shared space.

Shared zones are sign posted as a shared zone at the entry and exit point along with 10km/h signage. In addition, a consistent pavement treatment is used across pedestrian footpaths and across the road carriageway to enhance the sense of equality between pedestrians and vehicles. To reinforce this effect kerbs and gutters are removed and a flush paving treatment is applied. Road line markings are not used in a shared zone. shared zones have a raised threshold treatment and a different surface texture to adjacent streets.

In special circumstances kerbs and gutters can be retained but only if approved by the RMS. In such cases the existing footpath is to be footway must be treated so that it cannot be used by pedestrians to ensure that the existing road becomes a road related area.. This may involve the use of bollards.

Roads can only be considered for shared zones when they have a low traffic volume. This is less than 100 cars an hour and 1000 cars a day. Shared zones are most often one way but can run in both directions. Shared zones should be considered for areas of high pedestrian activity especially where footpaths are narrow and pedestrians are forced to walk along the road.

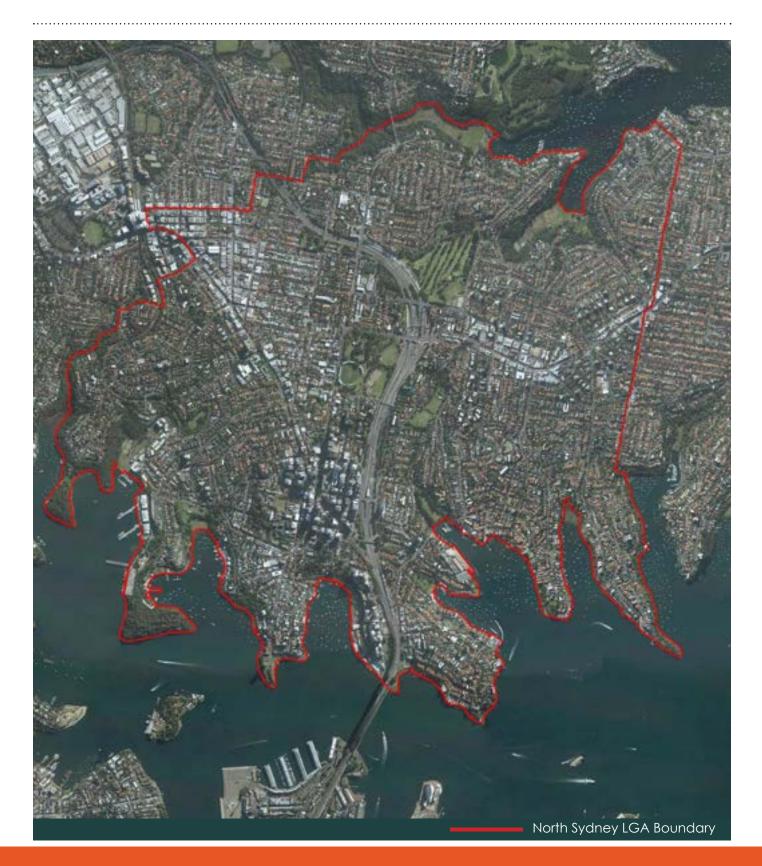
Cars can only stop in shared zones when parked in marked bays. No reversing is allowed in a Shared Zone and drivers must give way to pedestrians at all times.

2.3.4 Parks and open space

This category includes neighbourhood parks, district parks, regional parks, playgrounds, street enclosures, reserves, foreshore parks, bushland and sportsgrounds.

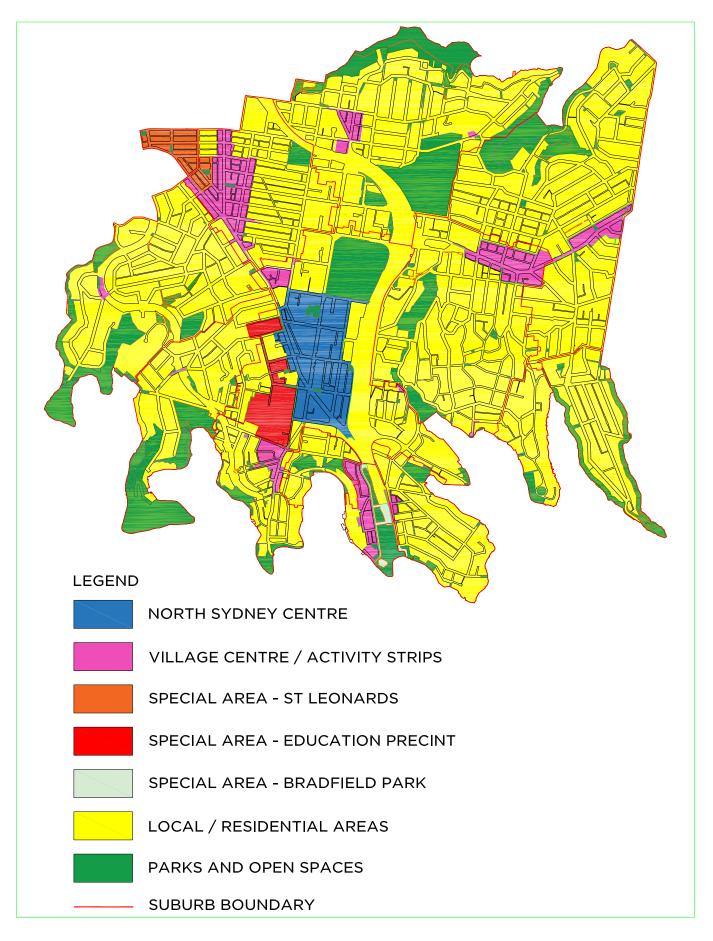
Open space is outdoor space that is in the public realm, is freely accessible and serves a recreation function; from organised sport, casual exercise, family recreation to walking trails and areas of native vegetation.

Footpaths in open space need to cater to both pedestrians and cyclists. They require a hard wearing durable surface with an excellent slip resistance. As large areas of pavement are required a more cost effective product is required that is low maintenance.

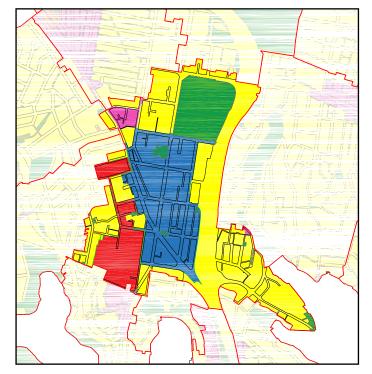


03 Streetscape and open space context and location

03 Streetscape and open space context and location



Suburb character statements



3.1 North Sydney

NORTH SYDNEY

The North Sydney Planning Area is an iconic and attractive area, with the focus on the North Sydney Centre, which is identified under the 'Metropolitan Strategy for Sydney to 2031' as a global commercial centre. New development within the Planning Area should result in:

- A viable and attractive employment centre;
- A diverse range of living, employment, recreation and social opportunities being provided that attract both local and regional populations which contribute to the vibrancy of the centre;
- A high level of amenity for residents, workers and visitors to enjoy;
- A high quality of built form;
- A high level of public transport patronage which is easily accessible to residents, workers and visitors; and
- The area being linked to the Sydney CBD, other suburban centres and many parts of the Sydney Region by rail and bus as well as by road and is a place of interchange between the various modes.

Quality Urban Environment:

- There are links to the Sydney CBD, other suburban centres and many parts of the Sydney region by ferry, rail, bus and road and the centre is a place of interchange between the various transport modes;
- Public transport, including walking and cycling, is the main form of access to the centre;
- Traffic is managed so that pedestrians can move within the area freely and safely, and amenity is maintained;
- Parking is managed in a way that maintains pedestrian safety and the quality of the public realm and minimises traffic generation;
- Rear lanes allow for the primary vehicular access to properties
- The level of public parking within the centre is maintained;
- Limited increase to the capacity of private parking; and
- Pedestrians are assisted to safely cross barriers such as the Pacific Highway.

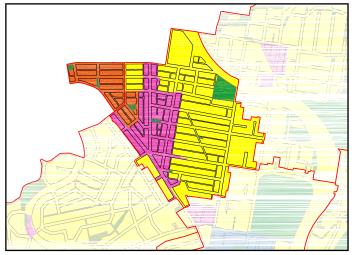
Public Domain:

- Additional open space is provided to service the increased residential and working population of the North Sydney Centre; and
- Streetscape improvements occur in accordance with this strategy.

North Sydney can be divided into the following locality areas:

- Central Business District
- Eden Neighbourhood
- Hampden Neighbourhood
- McLaren Street Conservation Area
- Walker Street Conservation Area
- Education Precinct

3.2 St Leonards / Crows Nest



ST LEONARDS / CROWS NEST

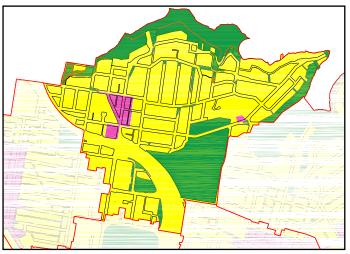
The Planning Area is focussed around the town centres of St Leonards and Crows Nest in the north-west of the area both of which are situated on major traffic routes. The remainder of the area comprises a number of predominantly low density residential neighbourhoods, much of which is characterised by retention of the historic subdivision pattern.

St Leonards Town Centre, which is identified as a Specialist office precinct under the Metropolitan Strategy 2031, is a significant, sustainable and busy urban centre where:

- A diverse range of living, employment, recreation and social opportunities are provided which serve both local and regional populations and contribute to the vibrancy of the centre;
- Residents, workers and visitors enjoy a high level of amenity and quality of the natural and built environment; and
- Residents, workers and visitors can easily access the Area through excellent public transport links to the Sydney CBD, other suburban centres and many parts of the Sydney Region by rail and bus.

Crows Nest Town Centre is smaller in scale in comparison to St Leonards, with 19th Century, two storey shop front parapets along Willoughby Road and the Pacific Highway. The Town Centre services the daily needs of residents and visitors, as well as having a lively dining district. Traffic is managed so pedestrians can move freely across Willoughby Road. The residential neighbourhoods are generally quiet and characterised by wide roads with street tree plantings. Laneways facilitate movement and provide rear lane access to properties. Local shops, dispersed throughout the area, serve both local and regional needs. St Thomas Rest Park, located toward the northern edge of the area, provides much needed open space and complements pocket parks within the area, with access to St Leonards Park on the eastern edge.

3.3 Cammeray



CAMMERAY

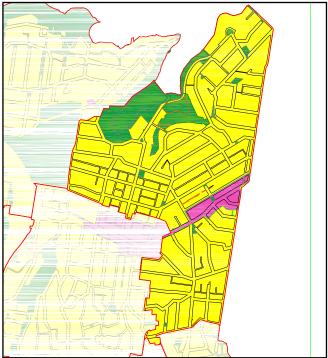
The Planning Area is focussed around Cammeray Village, which is an active, pedestrian friendly shopping area that has small scale shops and provides street level activity with an lively pedestrian environment, where:

- Local shops cater to the local community and are balanced between basic needs such as food and grocery, and recreation such as cafes and galleries;
- Development on both sides of Miller Street is unified through common elements; and
- There is safe and easy pedestrian movement across Miller Street.

The surrounding residential neighbourhoods are diverse in nature, where:

- Most of the existing dwelling houses and dual occupancies are retained;
- Capacity exists to accommodate some attached dwellings, multi-dwelling housing and residential flat buildings close to existing public transport, services and facilities; and
- The density of residential development generally reduces the further away from Miller and Falcon Streets a property is located.

3.4 Cremorne



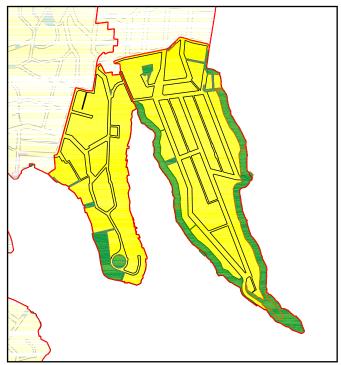
NORTH CREMORNE

Cremorne is a primarily residential neighbourhood providing a diverse range of housing forms for a mixed population. It is bound on its southern side by the Neutral Bay and Cremorne Town Centres, which are bustling places where people live, shop, eat, work and socialise providing a high level of amenity for all users.

Development within the Planning Area should result in:

- Residential growth being provided in accordance with Council's Residential Development Strategy, with the growth concentrated within the Mixed Use zones of the Town Centres located on or in the vicinity of Military Road, and the remainder comprising of multi- dwelling housing and residential flat buildings in the surrounding residential areas;
- Residential densities not being increased in foreshore areas and areas of steep terrain;
- Development within the R2 Low Density Residential zone being of a similar scale to existing characteristic development;
- A wide range of residential types and sizes being distributed throughout the area according to zone; and
- A range of retail and commercial premises, services and facilities being available to the local community within the Town Centres.

3.5 Cremorne Point / Kurraba Point



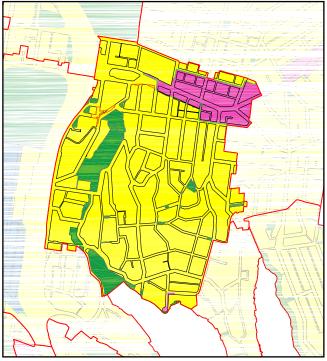
CREMORNE POINT / KURRABA POINT

Cremorne Point / Kurraba Point is a green, leafy area sympathetic to its harbour side setting. The design of new buildings is to be sympathetic to the landscape and character of buildings within the locality, complementing existing building forms in respect to massing, composition, materials, colours and maintaining the original subdivision pattern.

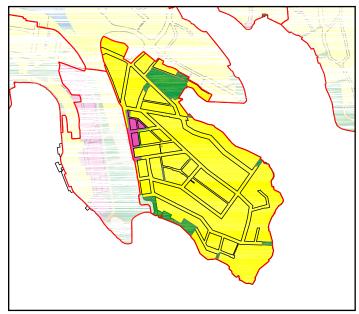
Development within the Planning Area should result in:

- No substantial change to residential densities;
- No significant change in intensity of development;
- A wide range of single household residential types being distributed in a number of distinctive built form/landscape areas; and
- The conservation of features which contribute to the local identity.

3.6 Neutral Bay



3.7 Kirribilli



KIRRIBILLI

NEUTRAL BAY

Neutral Bay is a diverse residential neighbourhood. Lower density development exists in the neighbourhood where there are small allotments, conservation areas and heritage items. Small shops, community and school facilities cater for the local residents. The waterfront and harbour setting of the Neutral Bay Area provide passive and active recreation pursuits, access to transportation, to other parts of the harbour via ferries and contribute to the natural and scenic qualities of the neighbourhood.

Development in the Planning Area should result in:

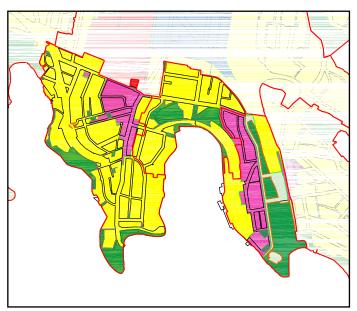
- Residential growth occurring in accordance with Council's Residential Development Strategy, principally in the high density residential zones situated in the vicinity of Military Road;
- A wide range of residential types and sizes being distributed throughout the area;
- A scattered range of shops, services and facilities being available to the local community; and
- Any alterations and additions being of a similar scale to existing buildings.

Kirribilli is located on the foreshores of Sydney Harbour with spectacular views of the Sydney CBD, the Sydney Opera House and Sydney Harbour Bridge. Bradfield Park, at the base of the Sydney Harbour Bridge, provides unique outlooks and a place for outdoor recreation and softens the dense built form on the foreshores. The focal point of the Kirribilli peninsula is the Kirribilli Village Centre, a compact and lively area with a community centre, local shops and outdoor cafes that serve the needs of the local community. The village is surrounded by a predominantly residential area with a small number of other uses such as education, transport, maritime activities and community facilities. Conservation areas are often associated with prominent landmarks such as Admiralty House and Kirribilli House.

Development within the Planning Area should result in:

- Limited growth with no substantial increase in residential densities; and
- No significant change in low density residential or conservation areas.

3.8 Lavender Bay / McMahons Point / Milsons Point



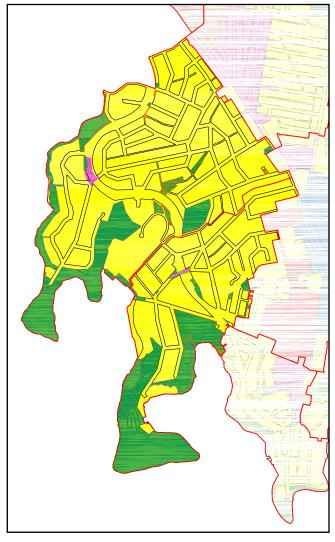
LAVENDER BAY / MCMAHONS POINT / MILSONS POINT

The Lavender Bay Planning Area is a diverse area reflected by the very wide range of land uses occurring within the Area, including a mixture low, medium and high density residential accommodation, commercial premises, light industry, education establishments, places of worship and public recreational facilities. Many of these land uses are located in a leafy setting with strong links to Sydney Harbour and are often associated with landmark buildings such as Graythwaite, the Shore School and St Peter's Church.

The Planning Area is noted for its historical character arising from the retention of much of its original subdivision pattern and good examples of largely intact mid 19th century and early 20th Century buildings. Blues Point Road in McMahons Point is a popular village centre enjoyed by local residents and visitors to the area with its outdoor cafes, galleries and small specialty shops.

Milsons Point is on the shores of Sydney Harbour and consists of a large concentration of mixed residential and commercial towers located at the base of the Sydney Harbour Bridge, surrounded by landmarks such as Luna Park, Bradfield Park and North Sydney Pool. Development within the Planning Area should result in:

- Any residential growth being in accordance with the Residential Development Strategy, with high density residential accommodation mainly being accommodated within the mixed use zone at Milsons Point, with no substantial change in the other residential and light industrial areas;
- A wide range of single household residential types being distributed in a number of distinctive built forms/landscape areas;
- Any retail premises being of a scale to cater to the local community and which provide a balance between basic (e.g. food and groceries) and recreational (e.g. cafes and galleries) needs; and
- The conservation of features which positively contribute to the local identity.



3.9 Wollstonecraft / Waverton

WOLLSTONECRAFT / WAVERTON

The Planning Area generally comprises a diverse residential neighbourhood ranging from low density residential development adjacent to the foreshore areas of Sydney Harbour to high density residential development generally on the upper slopes and in close proximity to railway stations. The suburbs of Waverton and Wollstonecraft essentially align with the two ridges/peninsulas that project out into Sydney Harbour. The Area is also physically divided by the North Shore Railway line. Both neighbourhoods are in a pleasant setting, as a result of buildings being setback from boundaries, on site landscaping, street trees and strong links to Sydney Harbour.

The foreshores of the Planning Area are generally protected from development by recreational and bushland buffers, with the minor exception of maritime industrial activities which are reliant on a land-water interface. Development within the Planning Area, should result in:

- Residential growth being provided in accordance with Council's Residential Development Strategy, predominantly comprising attached dwellings, multi dwelling housing and residential flat buildings in the appropriate zones redevelopment of sites respects the existing built form and maintains the character of the area. This includes any alterations and additions to existing buildings;
- A wide range of residential types being distributed in a number of distinctive built forms and landscape areas;
- Local shops cater to the local community and are balanced between basic needs of food and grocery, and social needs- such as cafes and galleries; and
- Future maritime uses having a minimal impact on residential amenity.

Reference:

Part C Area Character Statements, North Sydney Development Control Plan 2013

04 North Sydney Centre

U.I.



04 North Sydney Centre

North Sydney Centre is located on the northern bank of Sydney Harbour. It has views across to Sydney city and is linked by the Harbour Bridge, tunnel and train line. It is located at a high point ensuring excellent views. The centre is set out on a grid with Miller Street as the main arterial road. The Pacific Highway intersects the grid on an angle generating several triangular shaped lots along the western side of the centre.

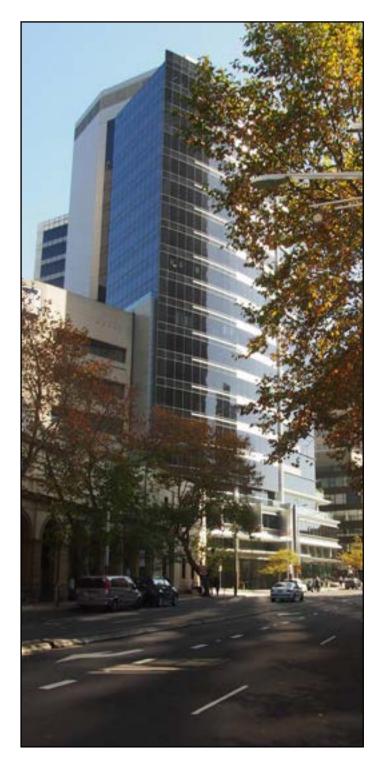
North Sydney Centre is a major commercial centre that supports high rise office towers with mixed use development along the northern and western boundaries. Apartment living is also on the rise in the North Sydney Centre with several high rise residential developments in construction along the Pacific Highway. North Sydney has a mix of architecture with lower, older buildings and more modern highrise commercial towers of varying styles developed within the last 30 - 40 years.

Tall buildings and wide main streets generate a civic scale. Many of North Sydney's streets are shaded for much of the day and can often be windy. North Sydney Centre contains streets that are suitable for conversion to shared zones along with other types of streets including laneways, main streets and arterial roads. Each have their own distinct character and scale.

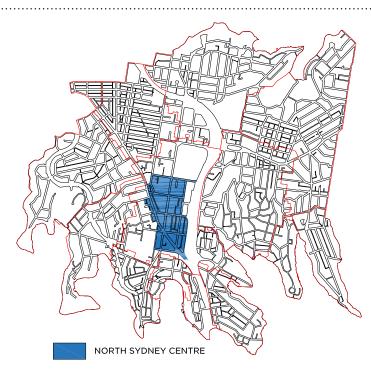
The underlying sandstone geomorphology of North Sydney has been picked up in the use of sandstone steps, walling and paving within the LGA. These earthy tones are also used frequently in painted facades such as the Post Office. In many places through out the LGA there are cuttings into the sandstone exposing the sandstone geomorphology. There are steep pockets within North Sydney Centre which influence the public domain and accessibility.

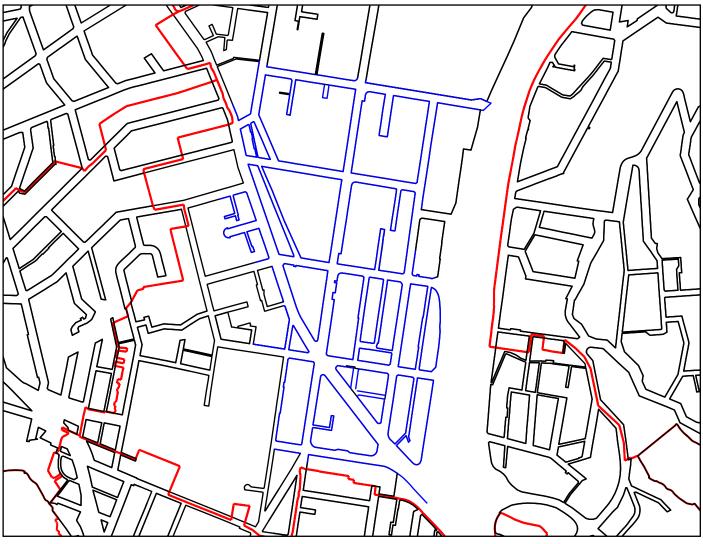
North Sydney Centre requires a high quality public domain as it is a large centre, is highly used and is a competitor with both Sydney city and Parramatta as a commercial centre. Currently there is a mix of paving materials. Pink precast pavers, brick pavers, sandstone paving, concrete and asphalt. Multi purpose poles have been rolled out in the city centre. They have a copper coloured base.

A materials palette for the North Sydney Centre must have a civic and urban quality, be contemporary, durable and easily maintained. Mature London Plane trees line the main streets of North Sydney generating distinctive green avenues. There are only small parks and plazas within the North Sydney Centre due to the space limitations of a highly developed business district. Brett Whiteley Place also contributes to the Public Domain and urban character of North Sydney Centre.



North Sydney is a major commercial centre that supports high-rise office towers with mixed use development along the northern and western boundaries





NORTH SYDNEY CENTRE FOOTPATH

4.1 Materials palette objectives

The North Sydney Centre public domain materials palette should respond to the heritage, geographical, geological and civic character of North Sydney.

Materials palette selection should also reflect the urban and contemporary character of North Sydney Centre. elsewhere, readily available and meet requirements for access and sustainability.

The use of standard fixtures and typical details encourages a cohesive character and strong identity for the North Sydney Centre.

A standardised approach to streetscape design ensures the street acts as a canvas for activity rather than becoming a clutter of inconsistent additions and improvements over time.

Materials shall be hard wearing, proven

Contents

Main Street

- Typical footpath paving pattern plan and crosssection
- Typical driveway paving
- Typical vehicle crossing
- Typical Vehicular Crossing Slab
- Typical granite paving edge restraint concrete haunch, concrete strip, brass edge
- Typical Brass Edge
- Typical base slab joint details
- Typical existing CBD tree site porous rubber surround
- Typical tree site formation for new tree
- Typical rubber paver at hotel loading zones
- Kerb Ramp
- Typical kerb ramp configuration
- Typical granite kerb and concrete gutter detail (on State & Regional Roads only)
- Typical granite kerb and concrete gutter details (on non State & Regional roads)
- Stormwater inlet pit with granite lintel
- Double inlet pit with granite lintel
- High flow inlet pit with granite lintel
- Stone Kerb, Layback Kerb and Layback Kerb Transition
- Typical threshold with concrete ramps and interlocking paving

Laneway

• Typical footpath paving in laneways

Shared zone

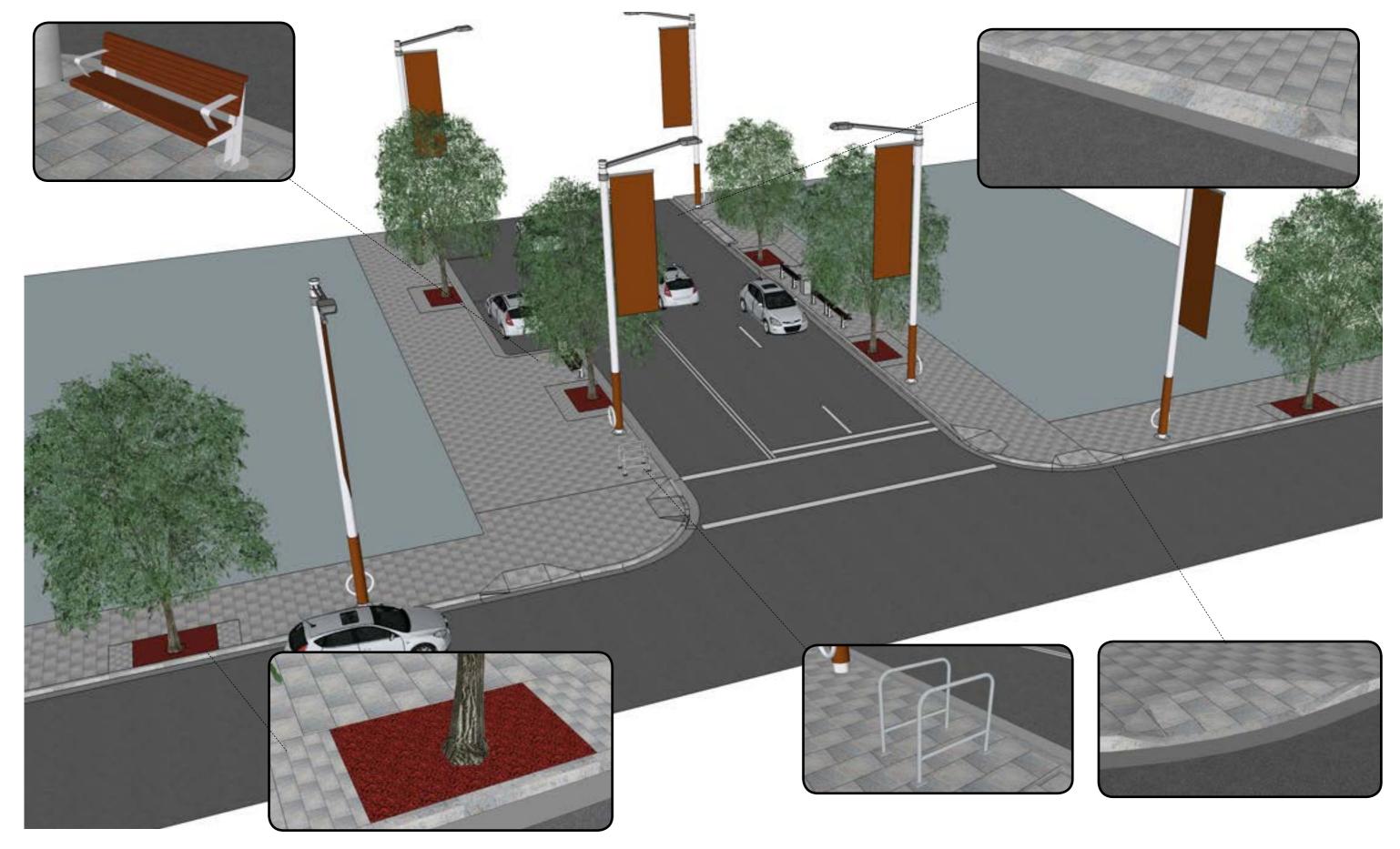
• Typical Raised Crossing at Entry to Laneway and Shared Zone (footpath continuation)

- Typical laneway and shared zone section
- Typical parking demarcation in granite shared zone only
- Typical tree pit at grade in shared zone plan and section
- Typical road pavers interlocking including concrete base

Furniture and Fixtures

- Typical bicycle parking bike hoop
- Typical bicycle parking bike rack
- Typical seat with back
- Typical bench seat
- Typical parking meter
- Typical metal bin Installation detail
- Typical 125mm and 150mm bollard fixed and removable
- Typical bus shelter
- Typical post top light (Main Street)
- Typical post top light default option 1 (Laneways and shared zones)
- Typical post top light option 2 (Laneways and shared zones)
- Typical wall mounted light (Laneways and shared zones)
- Typical octagonal light pole (Public plazas and spaces)
- Typical illuminated bollard
- Typical handrail lighting
- Typical community notice board free standing
- Typical community noticeboard wall mounted
- Typical bottle refill station with drinking fountain
- Typical alfresco demarcation line

4.2 Main street - perspective view



04 North Sydney Centre

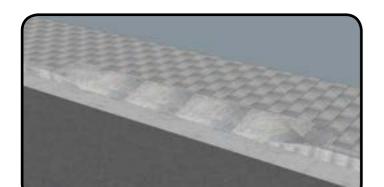
04 North Sydney Centre

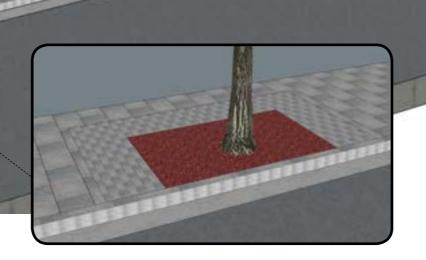
4.3 Main street - plan and section view

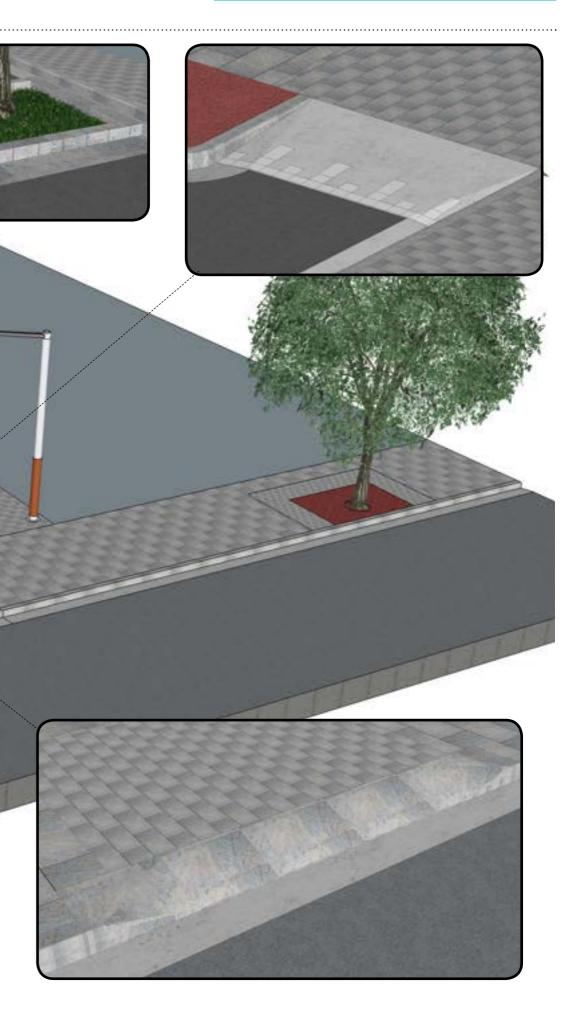




4.4 Laneways - perspective view



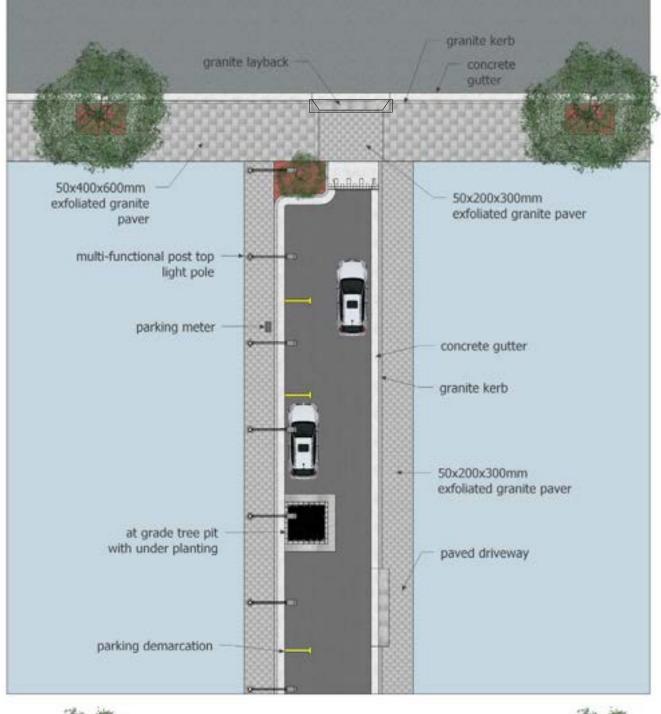




04 North Sydney Centre

04 North Sydney Centre

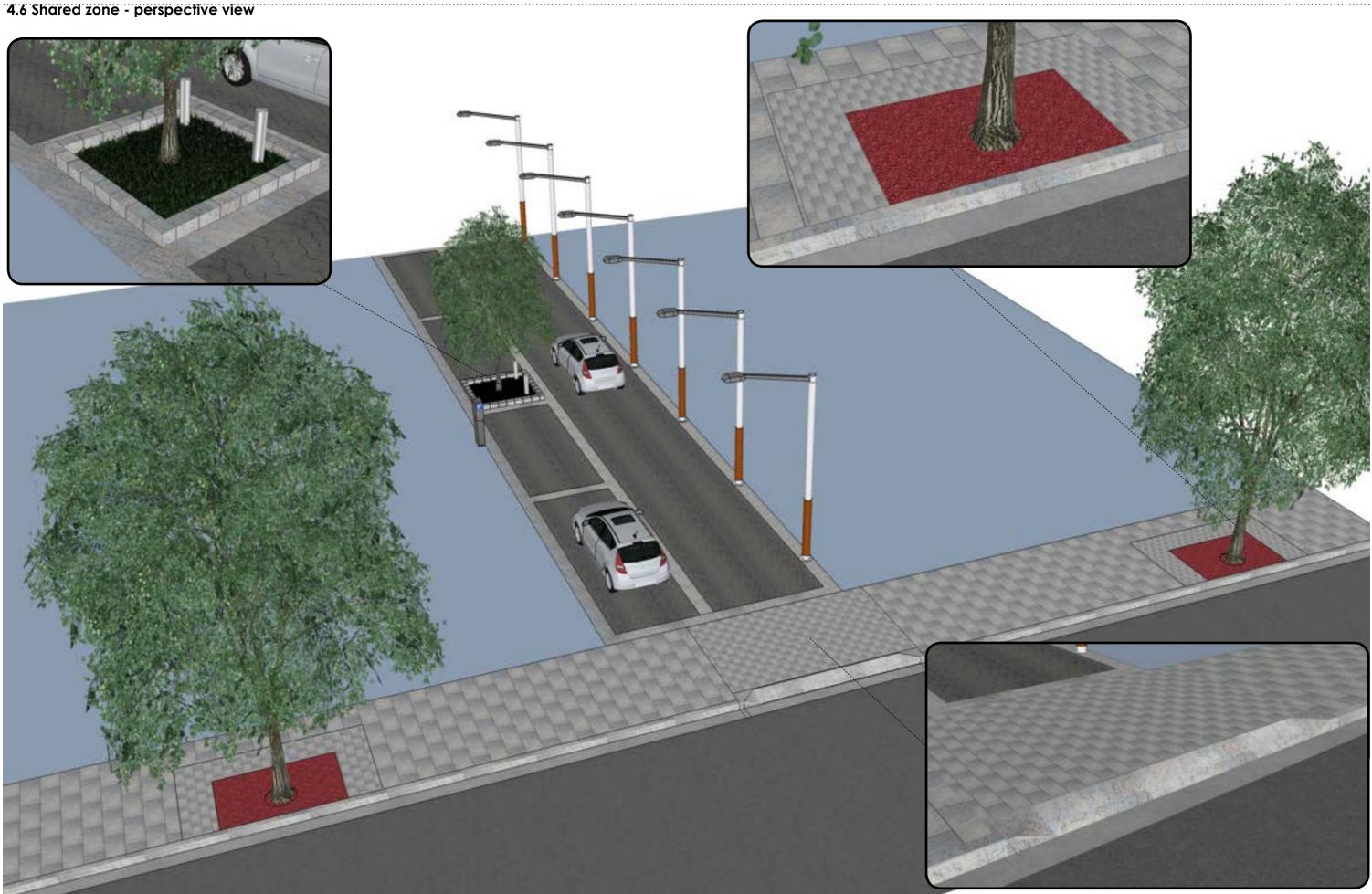
4.5 Laneways - plan and section view





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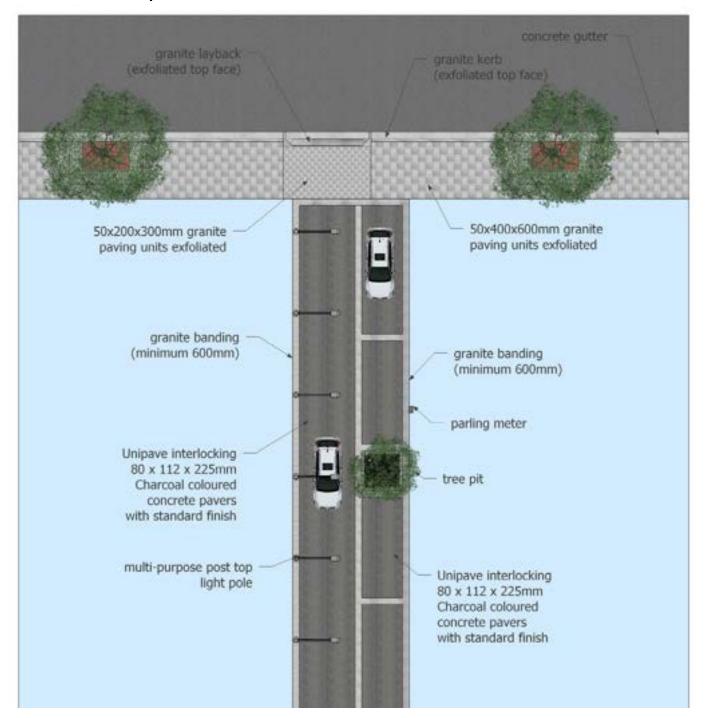
4.6 Shared zone - perspective view



04 North Sydney Centre

North Sydney Council

4.7 Shared zone - plan and section view

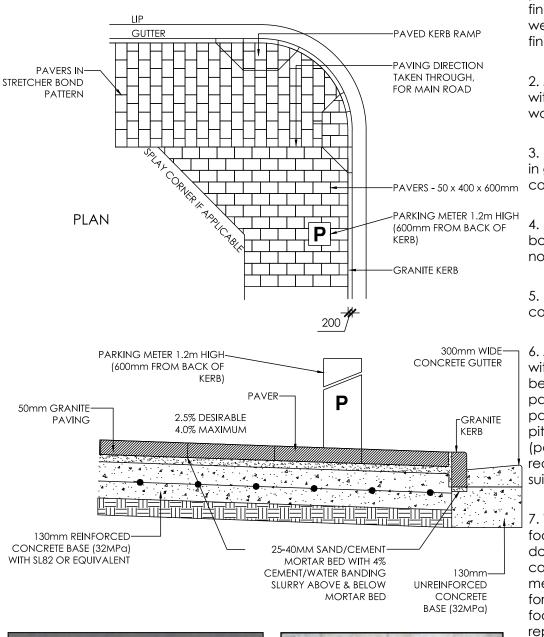




4.8 Indicative Materials and Furniture



Typical footpath paving pattern plan and cross-section



Kerb ramps align with boundary line



"Bruce" Rock (Austral Juperana) granite



"Bruce" Rock (Austral Juperana) granite

1. 50 x 400 x 600mm granite paving with an exfoliated finish to provide a hard wearing and serviceable finish.

Notes

2. Mid coloured paving with a fleck of colour for warmth.

3. Natural variation in granite assists in concealing marks.

4. Butt jointed, stretcher bond paving pattern with no header.

5. Rigid base - reinforced concrete slab.

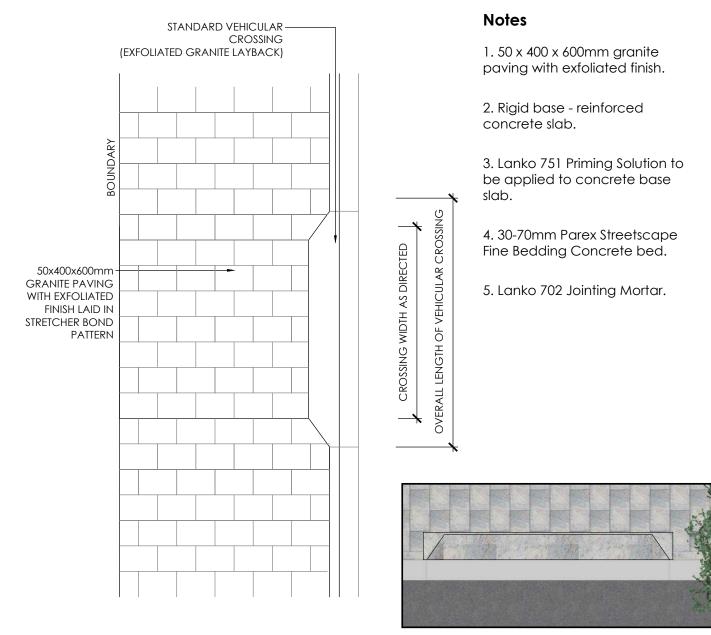
6. All existing service pits within the footpath shall be replaced with infill paver lids. Applicable paving shall be laid in the pit lid on a mortar bed (paving thickness may require modification to suit depth of infill pit lid.

7. Where finished footpath surface levels do not match existing, contact Council's parking meter services division for further details about footing requirements and repositioning of meter stem.

8. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

9. All open joints shall be sealed with Bostik "Seal 'N' Flex 1" in accordance with the manufacturer's recommendations - this includes boundaries, back of kerb and lintels, utility pits, construction joints etc

Typical driveway paving



Typical driveway treatment



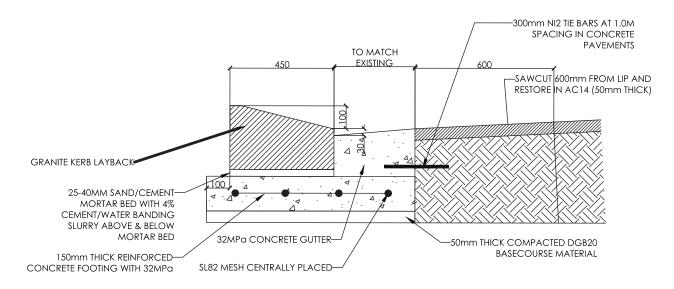
"Bruce" Rock (Austral Juperana) granite

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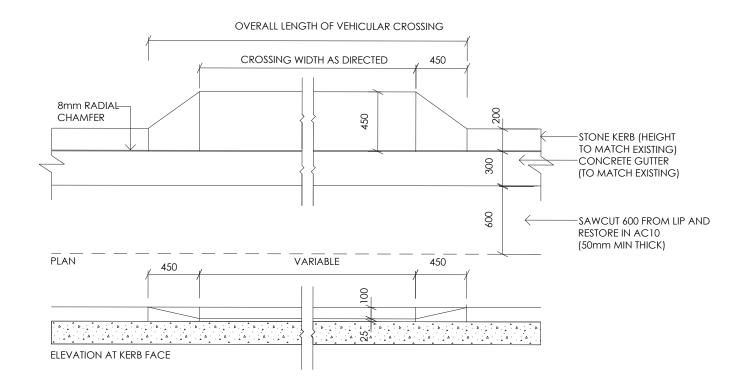


Granite layback on Berry Street

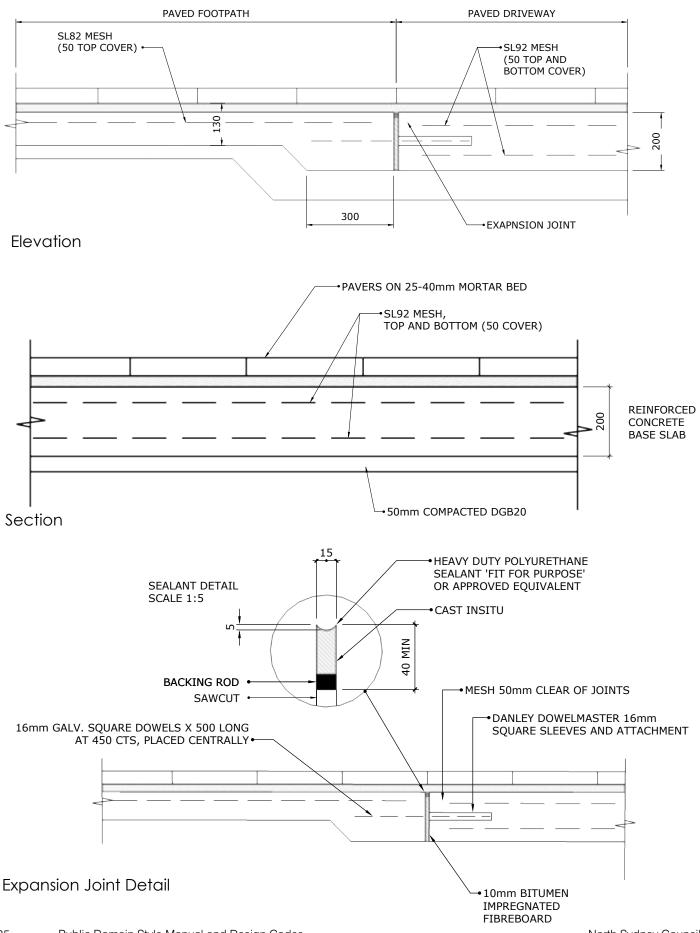
Typical Vehicular Crossing



Typical Section

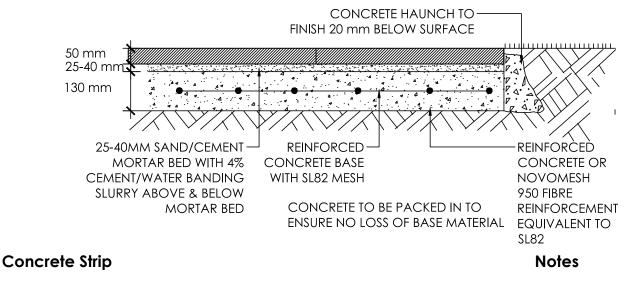


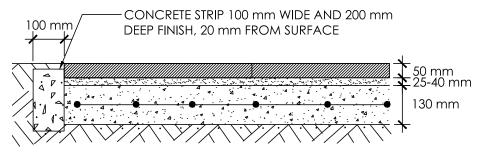
Typical Vehicular Crossing Slab



Typical granite paving edge restraint - concrete haunch, concrete strip, brass edge

Concrete Haunch



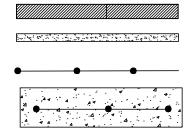


1. 50 x 400 x 600mm granite paving.

2. 25-40mm mortar bed.

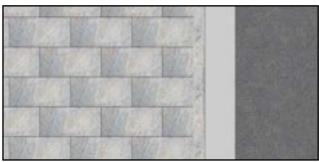
3. Rigid base - 130mm concrete slab (F'c = 32 MPa) reinforced with SL82 with 65mm top cover; Novomesh 950 dosed at rate of 5.75kg/m3 or approved equivalent product.

LEGEND



50 x 400 x 600 mm GRANITE PAVERS 25-40MM SAND/CEMENT MORTAR BED WITH 4% CEMENT / WATER BANDING SLURRY ABOVE & BELOW MORTAR BED STEEL MESH REINFORCEMENT

130 mm THICKNESS OF CONCRETE SLAB



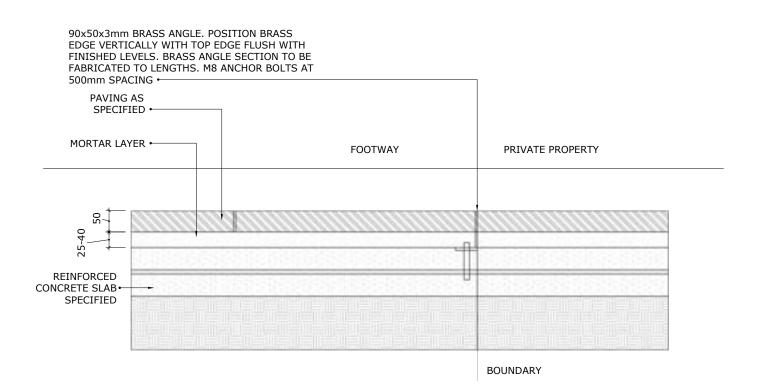
"Bruce" Rock (Austral Juperana) granite in stretcherbond pattern

36

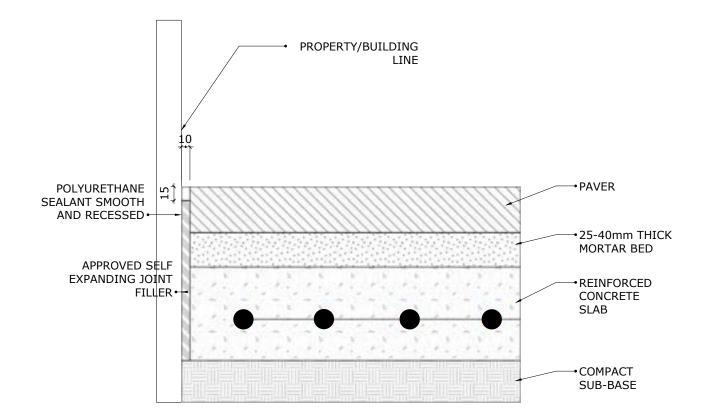


"Bruce" Rock (Austral Juperana) granite

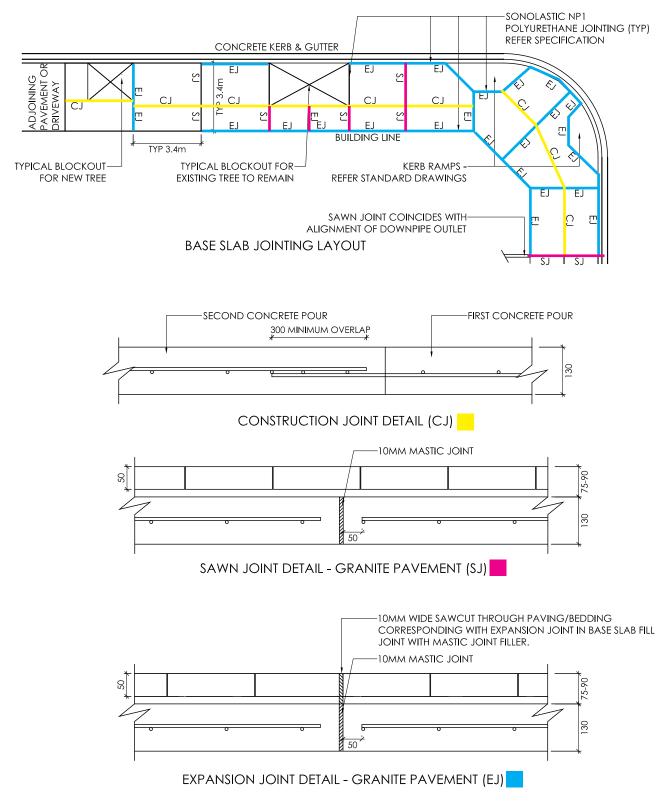
Brass Edge



Typical Paving Junction with Building Edge



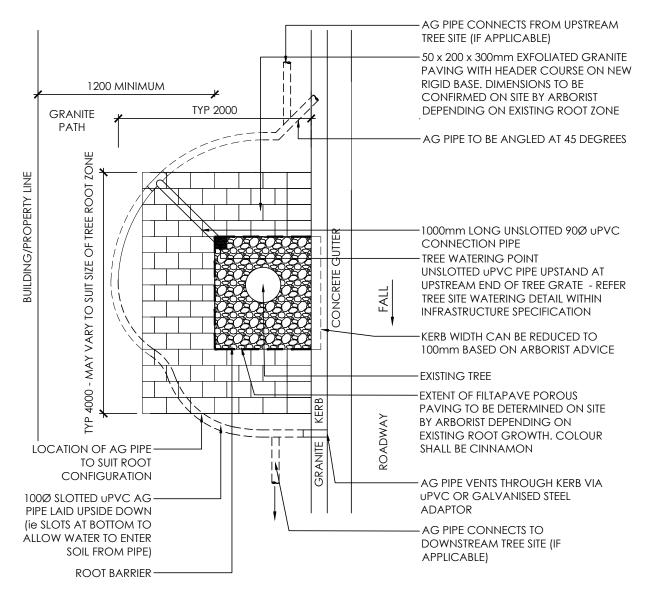
Typical base slab joint details



Notes

1. Base slab shall be 130mm concrete slab (F'c = 32 MPa) reinforced with SL82 with 65mm top cover; Novomesh 950 dosed at rate of 5.75kg/m3 or approved equivalent product. 2. The maximum aspect ratio of slab is length:width 2:1 with a maximum dimension of 4m in any direction.

Typical existing CBD tree site porous rubber surround





Existing tree pit detail

Notes

1. Existing tree site with porous rubber surround.

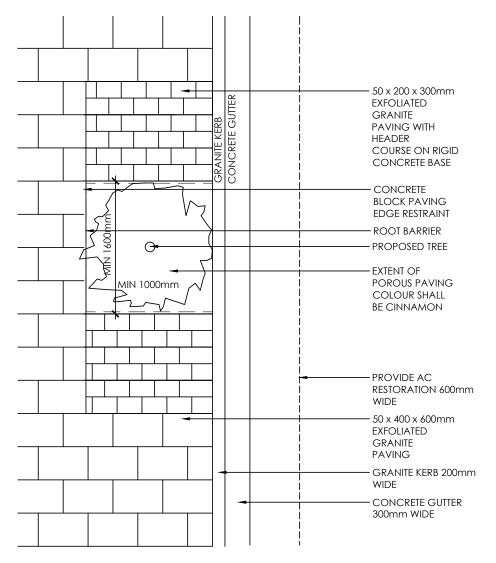
2. Colour of FiltaPave surround is cinnamon.

3. 50 x 200 x 300mm granite paving surround in an exfoliated finish.

4. Existing base to be reconstructed in concrete slab (130mm depth).

5. Butt jointed, stretcher bond paving pattern with header.

Typical tree site formation for new tree



Notes

1. Tree site formed in paving pattern with a flexible base.

2. Concrete block paving edge restraint. Refer 'Typical granite paving edge restraint detail'.

3. 50 x 200 x 300mm granite paving with an exfoliated finish to provide a hard wearing, serviceable finish. Smaller unit to extend for six courses on either side of tree pit.

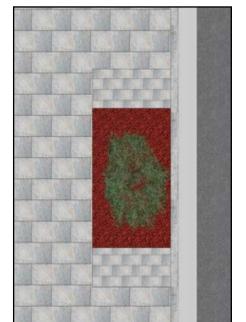
4. Butt jointed, stretcher bond paving pattern with header to both sides of tree pit.

5. Tree pit min 1m x 1.6m with FiltaPave porous rubber surfacing. Colour shall be cinnamon, thickness shall be 45mm.

6. Root barrier - refer to Section 18 of Council's Infrastructure Specification'.

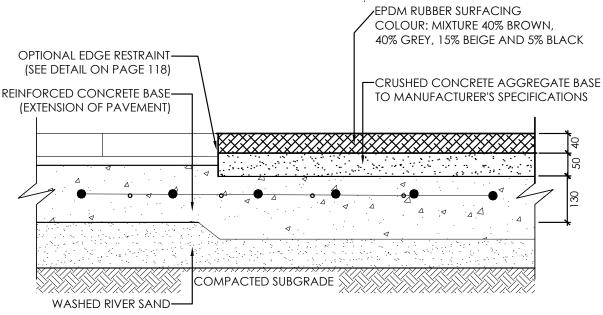


Porous rubber surfacing to tree pit



Tree site paving pattern (New tree)

Typical rubber paver at "hotel" loading zones



RUBBER PAVER DETAIL

Notes

1. EPDM rubber surfacing.

Colour: 40% brown, 40% grey, 15% beige and 5% black

- 2. Base to be 50mm crushed concrete aggregate.
- 3. Rigid base Reinforced concrete slab.

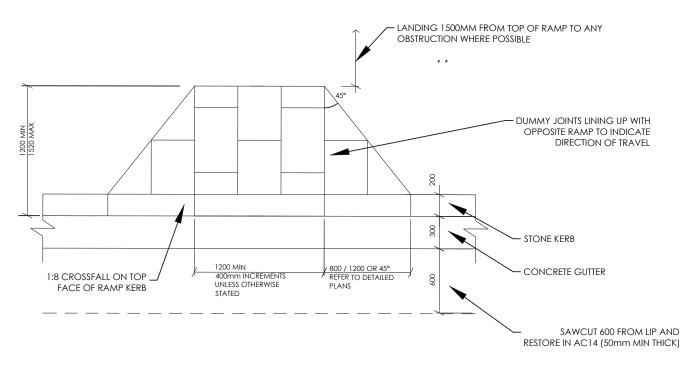


Recycled rubber surfacing

04 North Sydney Centre

Main Street

Kerb Ramp



Typical Plan



Kerb Ramp

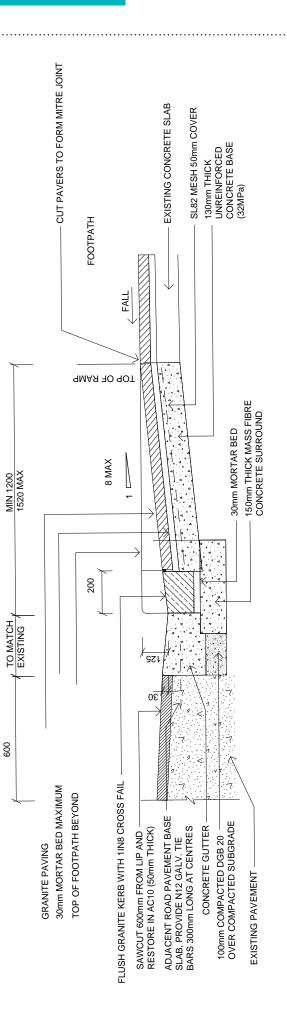
Notes

1. All kerb ramps shall be paved in granite. Smaller units shall be used when the standard unit 50 x 400 x 600mm cannot achieve the grade required. 2. Rigid base - reinforced concrete slab.

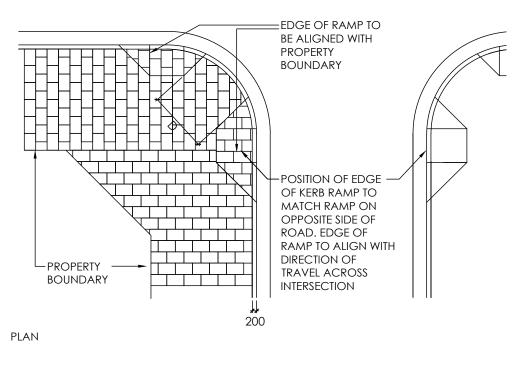
3. For ramps greater than 1520mm, maximum grade is 1 in 14. 4. Maximum grade from top to bottom of kerb ramp is 1 in 8.

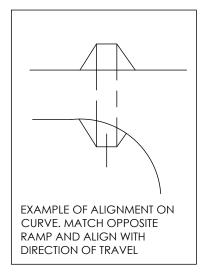
5. Typically 1200mm wide kerb ramps in North Sydney Centre.

Typical Section- Kerb ramp



Typical kerb ramp configuration





Notes

1. This drawing is to be read in conjunction with 'Typical Kerb Ramp' detail.

2. Granite unit paving to run down kerb ramp. 50 x 400 x 600mm units.

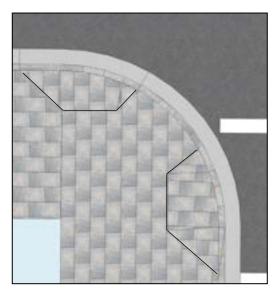
3. Kerb ramps align with property boundaries.

4. 1330mm landings at the top of any kerb ramp where possible.

5. 1:10 grade from top to bottom of kerb ramp. 1:8 maximum.

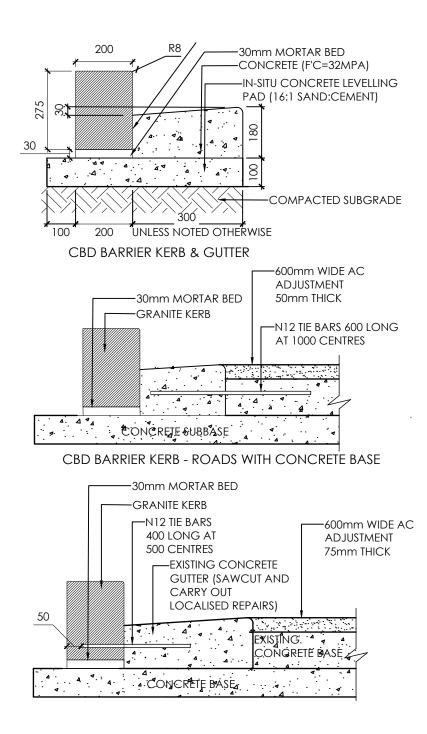
6. Kerb ramp to finish flush with adjacent paving.

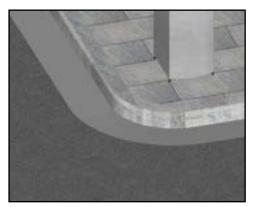
7. Kerb ramps to comply with AS1428.1.



Typical plan

Typical granite kerb and concrete gutter detail (on State & Regional Roads only)





Kerb treatment



Existing Kerb treatment

Notes

1. Subgrade: compacted subgrade as shown.

2. Basecourse: Concrete base as shown.

3. AC10mm adjustment:

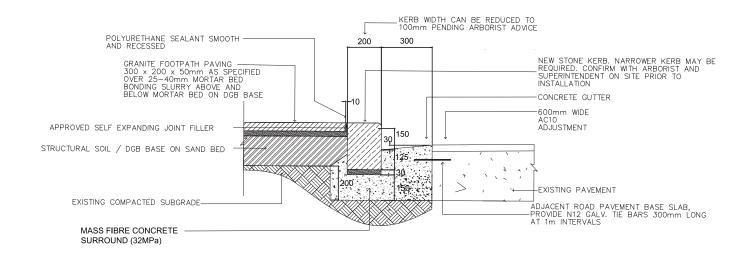
Provide 600mm wide AC10 correction course layer 50mm thick as shown.

4. Granite kerb:

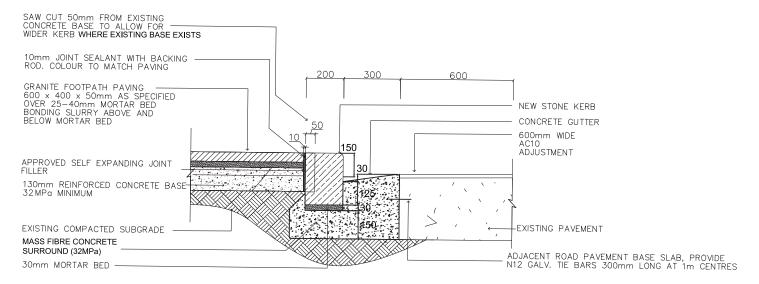
"Bruce" Rock granite (Austral Coffee). Top face only to have exfoliated finish. Front face is to have sawn finish.

Typical granite kerb and concrete gutter details (on non State & Regional roads)

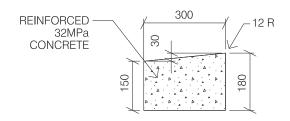
Granite Stone Kerb and Concrete Gutter adjacent to Tree Pit



Typical Granite Stone Kerb and Concrete Gutter Adjacent to Granite Footpath



Concrete Gutter



Notes

- 1. Subgrade: compacted subgrade as shown.
- 2. Basecourse: Concrete base as shown.
- 3. AC10mm adjustment:

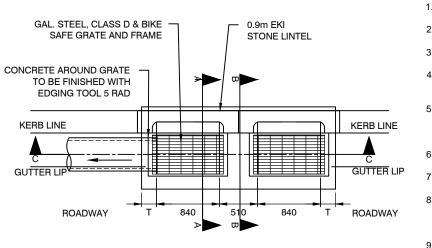
Provide 600mm wide AC10 correction course layer 50mm thick as shown.

4. Granite kerb:

"Bruce" Rock granite (Austral Coffee). Top face only to have exfoliated finish. Front face is to have sawn finish.

Double inlet pit with granite lintel

PLAN

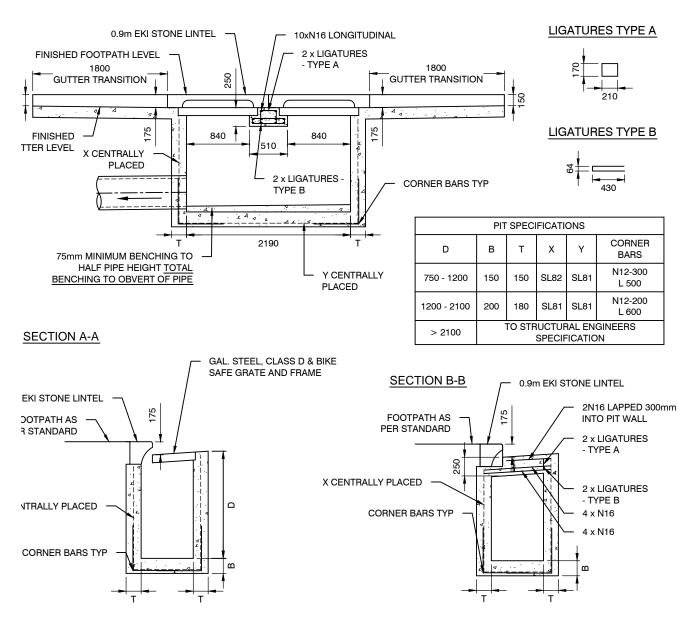


SECTION C-C

NOTES:

7.

- ALL LIGATURES TO BE R6 WITH DIMENSIONS 1. AS SPECIFIED.
- ALL REINFORCEMENT TO COMPLY WITH 2. AS1302, 1303 & 1304.
- COMPRESSIVE STRENGTH OF CONCRETE 3. AT 28 DAYS TO BE 32MPa.
- 75mm MINIMUM BENCHING TO HALF PIPE 4 HEIGHT TOTAL BENCHING TO OBVERT OF PIPE.
- 100mmØ SUBSOIL DRAINAGE PIPE 3.0m 5. LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES
- PROVIDE STEP IRONS WHERE PIT IS 6. DEEPER THAN 1 0m AT 300mm CENTRES
 - PITS OVER 2.1m IN DEPTH TO BE DESIGNED BY STRUCTURAL ENGINEER.
- 8. GRATES SHALL BE BICYCLE SAFE AND HAVE MAXIMUM INLET CAPACITY. ALL GRATES MUST BE APPROVED BY THE CITY'S REPRESENTATIVE.
 - DRAINAGE PIPE TO BE MINIMUM 375Ø CLASS 4 REINFORCED CONCRETE PIPE



Single inlet pit with granite lintel



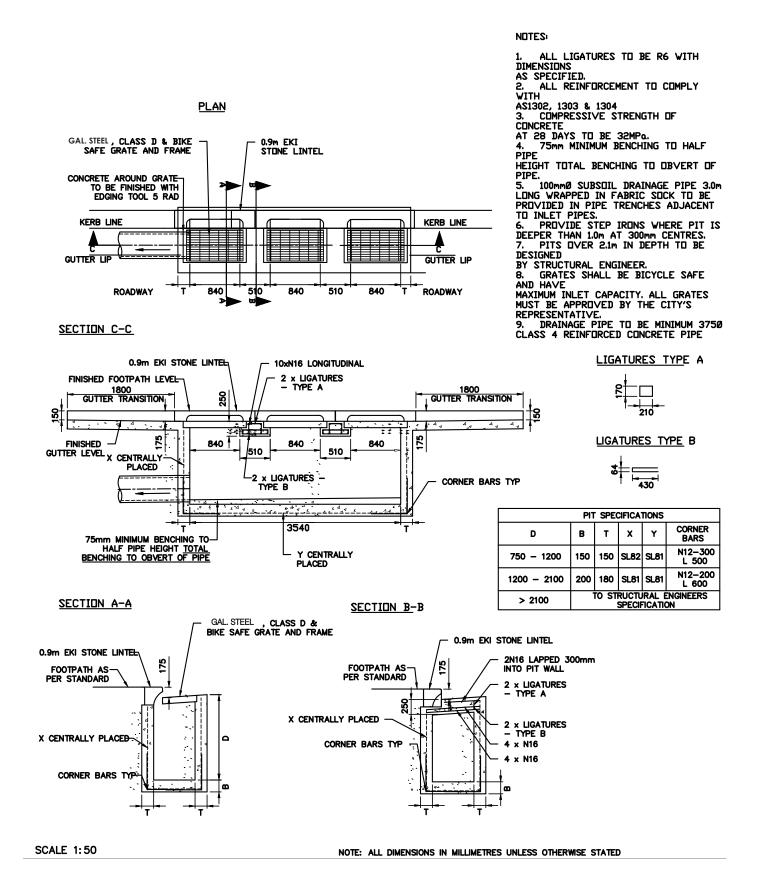
Typical Granite Stone Kerb and Concrete Gutter

Double inlet pit with granite lintel



Typical Granite Stone Kerb and Concrete Gutter

High flow inlet pit with granite lintel (3 or more grated inlet pits)



High flow inlet pit with granite lintel (3 or more grated inlet pits)

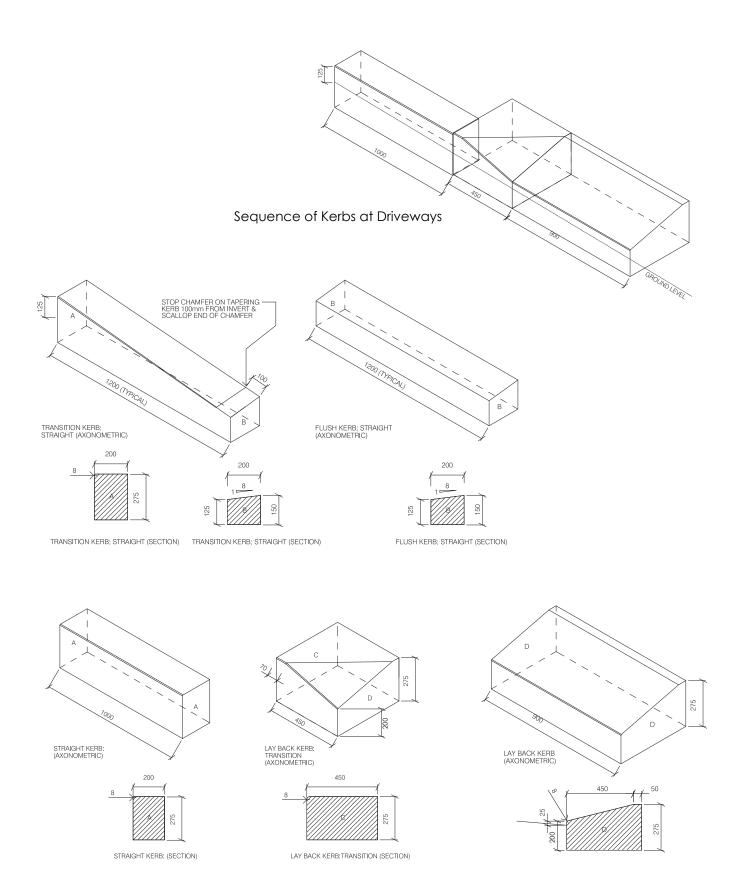


Typical Granite Stone Kerb and Concrete Gutter

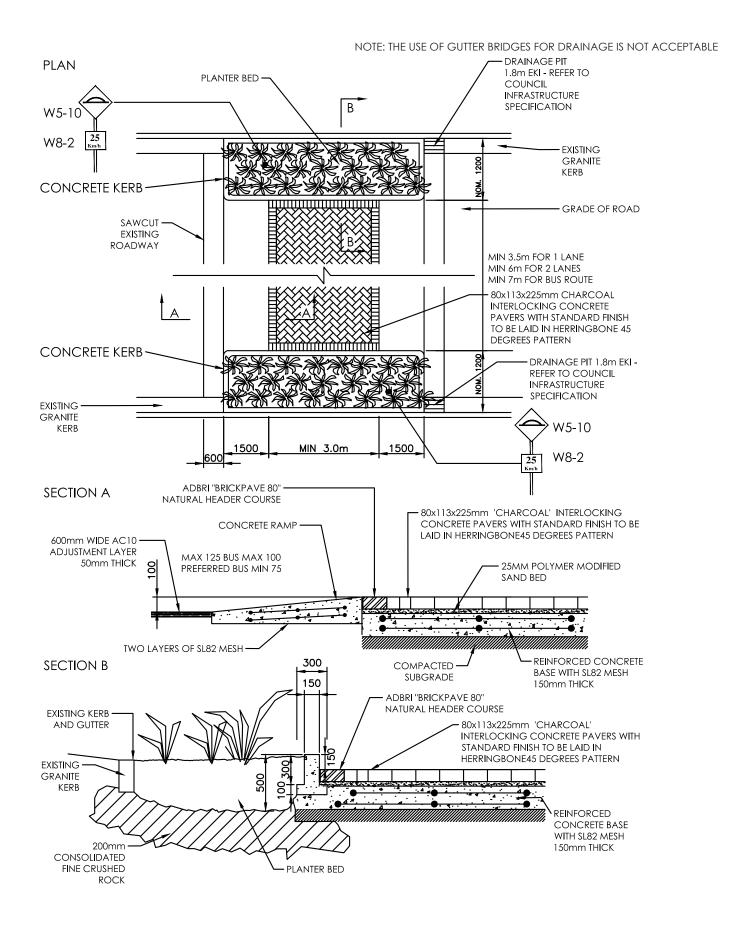


Typical Granite Stone Kerb and Concrete Gutter

Stone Kerb, Layback Kerb and Layback Kerb Transition



Typical threshold with concrete ramps and interlocking paving



Typical threshold with concrete ramps and interlocking paving

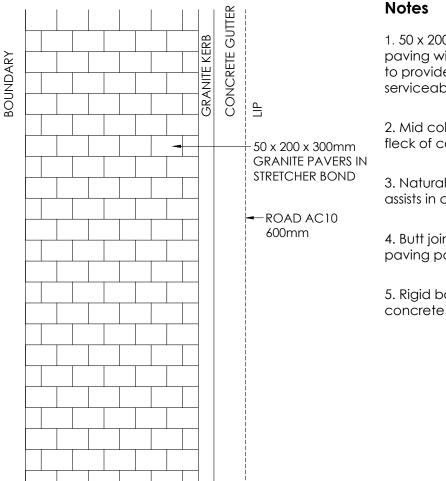


Additional banding for optional cycleway shown



Laneway

Typical footpath paving in laneways



Notes

1. 50 x 200 x 300mm granite paving with an exfoliated finish to provide a hard wearing and serviceable finish.

2. Mid coloured paving with a fleck of colour for warmth.

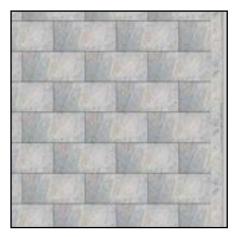
3. Natural variation in granite assists in concealing marks.

4. Butt jointed, stretcher bond paving pattern with no header.

5. Rigid base - reinforced concrete slab.

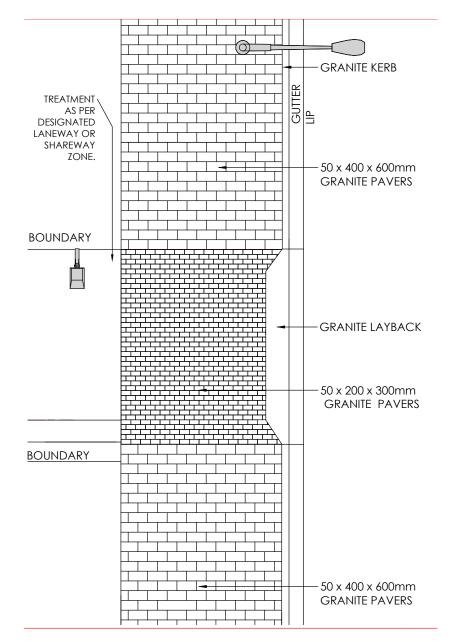


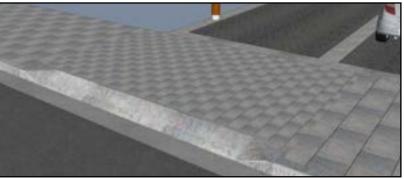
"Bruce" Rock (Austral Juperana) granite



"Bruce" Rock (Austral Juperana) granite in stretcher bond pattern

Typical Raised Crossing at Entry to Laneway and Shared Zone (footpath continuation)





Typical driveway treatment

"Bruce" Rock (Austral Juperana) granite

Notes

1. Main footpath 50 x 400 x 600mm granite paving with an exfoliated finish to provide a hard wearing and serviceable finish.

2. Laneway and shared zone crossing 50 x 200 x 300mm granite paving with an exfoliated finish to provide a hard wearing and serviceable finish.

3. Mid coloured paving with a fleck of colour for warmth.

4. Natural variation in granite assists in concealing marks.

5. Butt jointed, stretcher bond paving pattern with no header.

6. Rigid base - reinforced concrete slab for granite pavement.

7. Laneway and shared zone crossing on Parex Streetscape System mortar bed and joining to manufacturer's specification

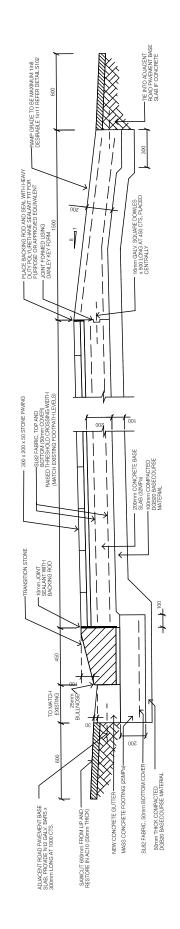
8. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

9. All open joints shall be sealed with Bostik "Seal 'N'
Flex 1" in accordance with the manufacturer's recommendations
this includes boundaries, back of kerb and lintels, utility pits, construction joints etc

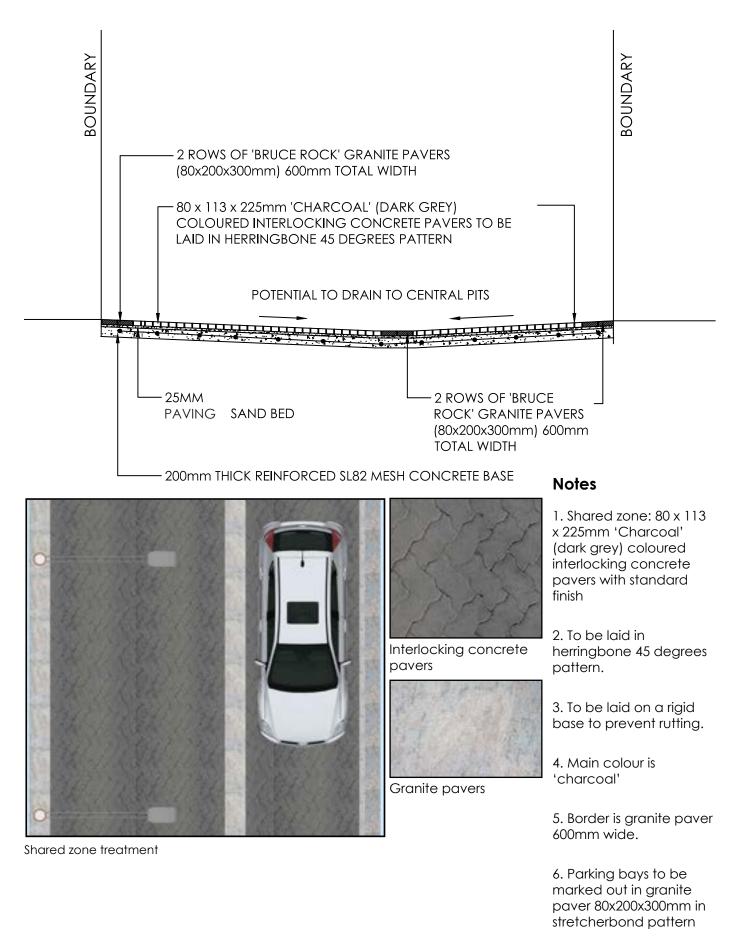


Laneway

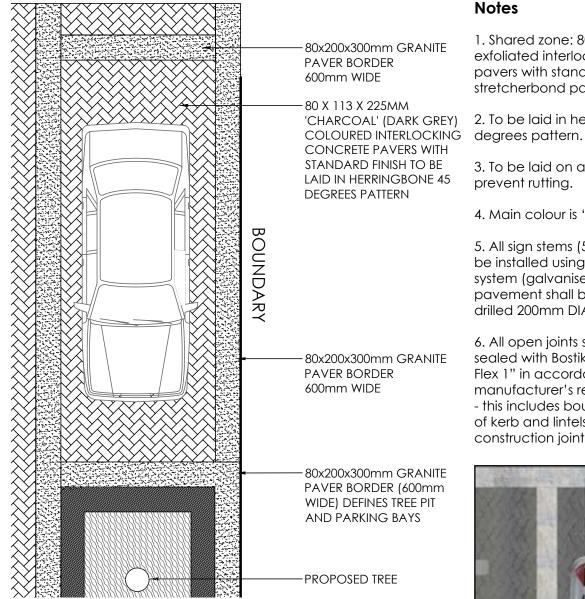
New Laneway Crossing

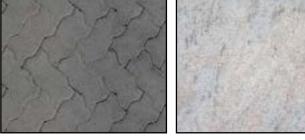


Typical laneway and shared zone section



Typical parking demarcation in granite - shared zone only





Interlocking concrete pavers

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Granite pavers

Shared zone treatment

1. Shared zone: 80 x 200 x 300mm exfoliated interlocking concrete pavers with standard finish in stretcherbond pattern.

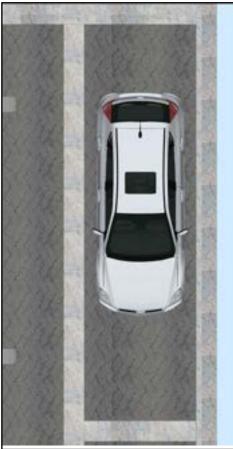
2. To be laid in herringbone 45

3. To be laid on a rigid base to

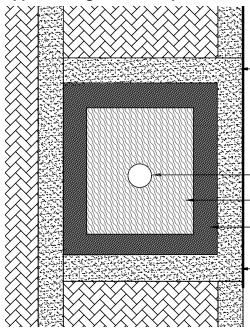
4. Main colour is 'charcoal'

5. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

6. All open joints shall be sealed with Bostik "Seal 'N' Flex 1" in accordance with the manufacturer's recommendations - this includes boundaries, back of kerb and lintels, utility pits, construction joints etc



Typical at grade tree pit in shared zone - plan and section



80x200x300mm GRANITE PAVER BORDER (600mm WIDE) DEFINES TREE PIT AND PARKING BAYS

PROPOSED TREE

PROPOSED MASS PLANTING

200x400mm RAISED GRANITE **KERB SURROUND**

80x200x300mm GRANITE PAVER BORDER (600mm WIDE) DEFINES TREE PIT AND PARKING BAYS



Tree Pit with optional Fixed bollard

Notes

1. Shared zone: 80 x 113 x 225mm 'Charcoal' coloured interlocking concrete pavers with standard finish to be laid in herrinabone 45 degrees pattern and on a rigid base to prevent rutting.

2. Interlocking to be laid on a paving sand layer (Coarse Paving Sand)

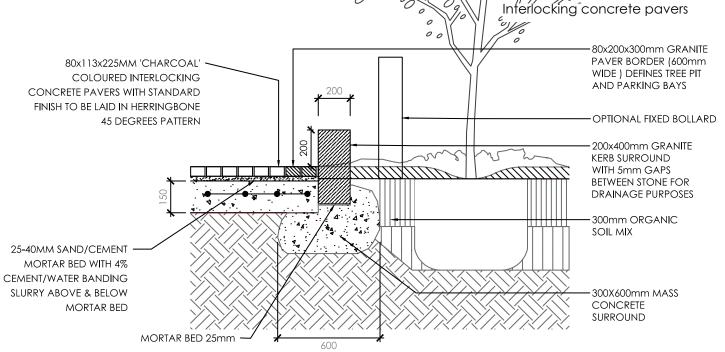
3. Granite to be laid on Parex Streetscape System motor bed and joining with Sikaflex high performance polyurethane sealant

4. Granite to be sealed



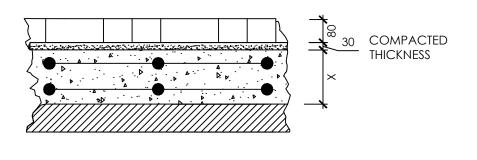
Granite pavers





04 North Sydney Centre

Typical road pavers interlocking including concrete base



Notes

1. 'X' Is to be 250mm for bus bays and 200mm for driveways, reinforced with SL82 reinforcement top and bottom.

2. Interlocking pavers to be 'charcoal' colour. Highlight colour shall be 'Natural' 'Brickpave 80'.

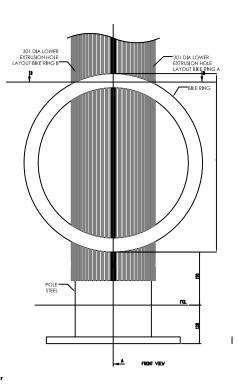


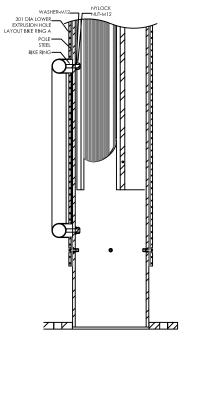
NOM. 30mm SAND BEDDING (COARSE PAVING SAND)

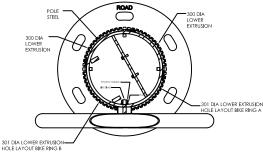
REINFORCED CONCRETE SUB-BASE WITH SL82 MESH

SUBGRADE

Typical bicycle parking - bike hoop







Notes

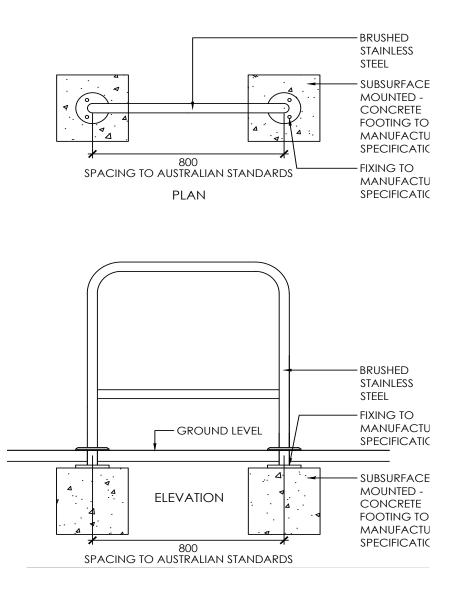
1. Bike hoops to be HUB bike ring assembly or approved equivalent.

- 2. Bike rings to be fixed to Multi-Purpose Poles (MPPs).
- 3. Brushed stainless steel (integral finish).

4. Ideally bike racks shall be located in areas where footpaths are widened. Bike racks should also be located where there is a change in transport type - for instance at ferry terminals, bus stops and train stations. They should also be located along cycleways and at cycle destinations.



Typical bicycle parking - bike rack



Notes

1. Subsurface mounted where possible.

2. Brushed stainless steel (brushed finish).

3. Ideally bike racks shall be located in areas where footpaths are widened. Bike racks should also be located where there is a change in transport type - for instance at ferry terminals, bus stops and train stations. They should also be located along cycleways and at cycle destinations.



Stainless steel bike racks

Typical seat with back











Notes

- 1. Timber battens with hidden fixings.
- 2. Stainless steel frame.
- 3. Angular, contemporary form.
- 4. Seat with back

5. Three person seats approximately 1850mm long.

- 6. To be sub-surface fixed where possible.
- 7. Stainless steel anti-tamper fixings.

8. Seat to be Rondo seat by StraBe or equal and approved. Image and details indicative of style only.

9. Timber to be weathered for 6 months and treated prior to installation.

10. Maximum grade at which seats can be installed 8.6%. Min seat height 380mm; max seat height 540mm.

Typical bench seat



Optional handrails shown









Notes

- 1. Timber battens with hidden fixings.
- 2. Stainless steel frame.

3. Angular, contemporary form.

4. Three person seats approximately 1850mm long.

5. To be sub-surface fixed where possible.

6. Stainless steel anti-tamper fixings.

7. Seat to be Rondo seat by StraBe or equal and approved. Image and details indicative of style only.

8. Timber to be weathered for 6 months and treated prior to installation.

9. Maximum grade at which seats can be installed 8.6%. Min seat height 380mm; max seat height 540mm.

10. Optional handrails available

Typical parking meter



Notes

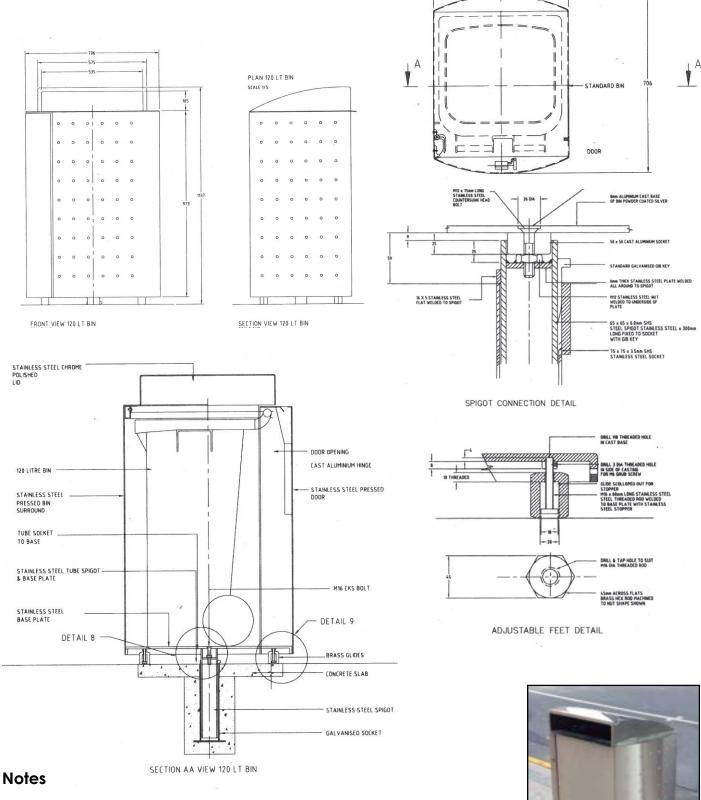
1. Parking meter 1.3m high

2. Situated 600mm from back of kerb

3. Where finished footpath surface levels do not match existing, contact Council's parking meter services division for further details about footing requirements and repositioning of meter stem.

Parking meter

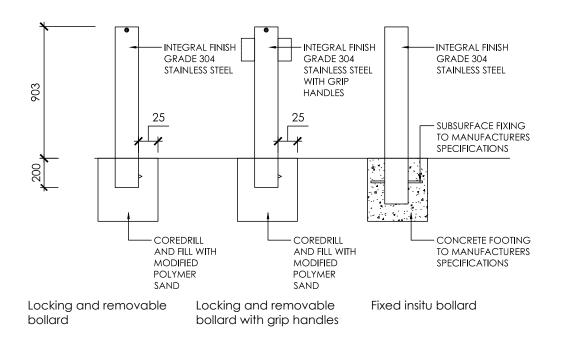




- 1. All dimensions in mm.
- 2. Stainless steel finish.
- 3. Bins are to be sub-surface mounted as shown.



Typical 125mm and 150mm bollard - Fixed and removable



Notes

3. Finish: Linished.

reflective tape.

4. Optional handles and

1. Integral finish grade 304 stainless steel.

2. Bollards are to be subsurface fixed.

168mm Bollard - Automatic retractable



Notes

1. Integral finish grade 304 stainless steel.

- 2. Finish: Linished.
- 3. Optional reflective tape.
- 4. 168mm dia. 600mm high.
- 5. 6mm wall thickness automatic retractable bollard.

(with optional grip handles)

Automatic retractable bollard with optional reflective tape





Typical bus shelter



Notes

1. Urban / Contemporary bus shelter.

2. Bus shelter to incorporate advertising material and information panels.

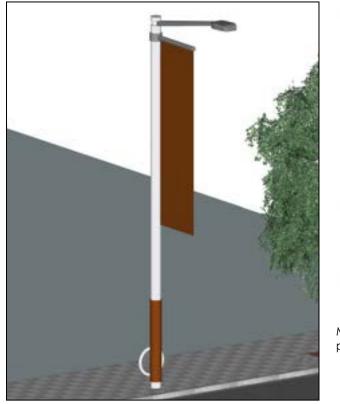
3. Size to vary to suit location and demand.

4. Bus shelters are to be installed as per the specification from North Sydney Council's current bus shelter supplier.





Typical post top light (Main Street)





Notes

1. LED Luminaire with P.E. cells

2. Lighting design to comply with Australian Standards.

3. Anodised finish.

4. Foundation cage cast into 32 MPa concrete footing in subgrade.

5. Poles are to be assembled and erected in accordance with manufacturers specifications.

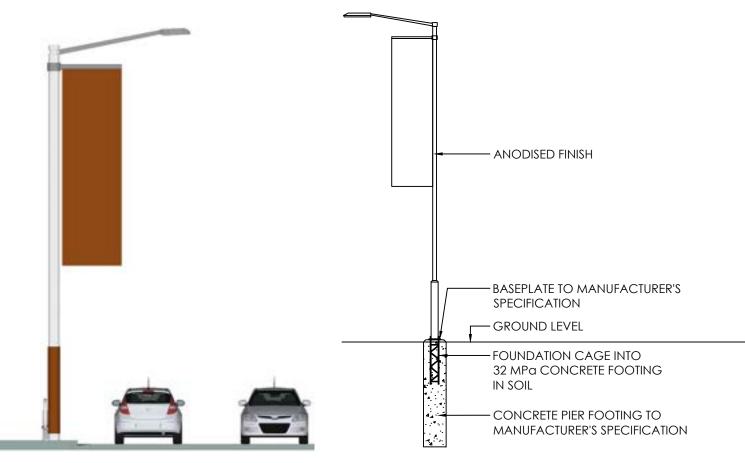
6. Pole Height: 9.5m

7. Luminaire outreach arm: 3m

8. Spacing of poles to be determined by lighting design.

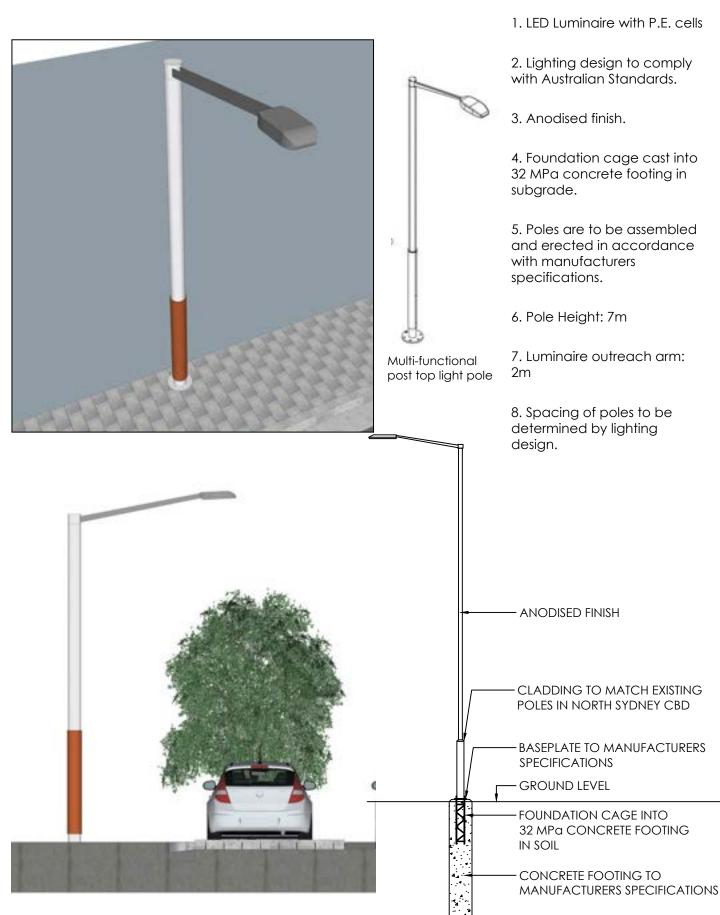
9. Banner outreach arm: 2m

10. Provision of two mini-hubs



Typical post top light - default option 1 (Laneways and shared zones)

Notes

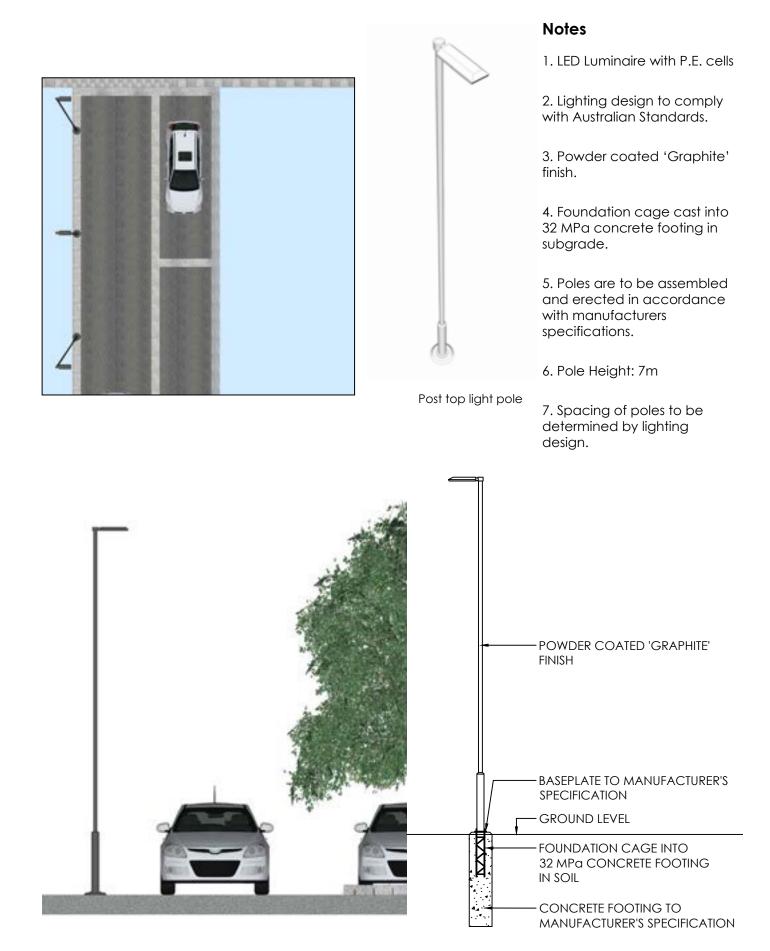


North Sydney Council

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Furniture and Fixtures

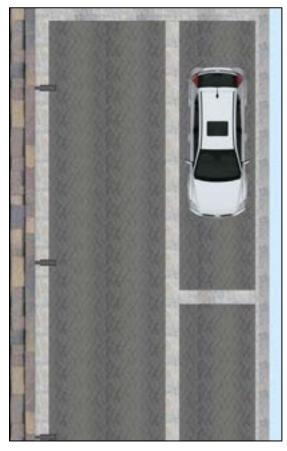
Typical post top light - option 2 (Laneways and shared zones)



04 North Sydney Centre

Furniture and Fixtures

Typical wall mounted light (Laneways and shared zones)



FIX MOUNTING PLATE WITH ENCLOSED OR ANY OTHER SUITABLE FIXING MATERIAL ONTO THE WALL Wall mounted LED light

Notes

1. A consistent light colour warmth across fittings.

2. A consistent palette of light fittings for different applications.

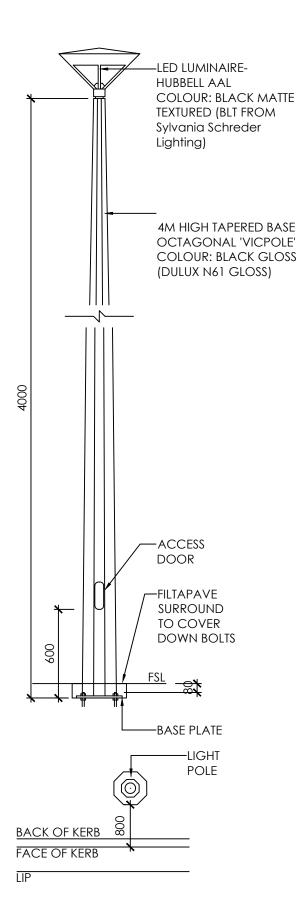
3. Powdercoated 'Graphite'.

4. Lead mains supply cable through the cable entry of the mounting plate.

5. Fix the mounting plate with enclosed or any other suitable fixing material onto the mounting surface.



Typical octagonal light pole (Public plazas and spaces)



Notes

1. For installation detail. Refer to manufacturer's specification.

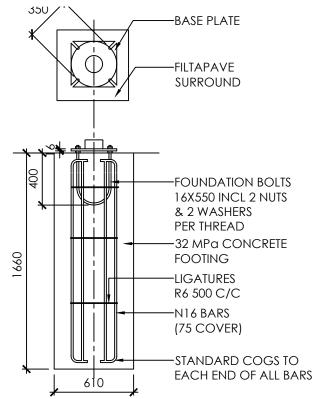
2. Allow for grout packing between the concrete footing and the base plate of the light pole to achieve a vertical alignment when erecting the pole. The grout pack shall have a minimum strength of 32MPa at 7 days. The maximum tolerance for vertical misalignment will be 30mm from the vertical.

3. Light colour warmth to match other fittings.

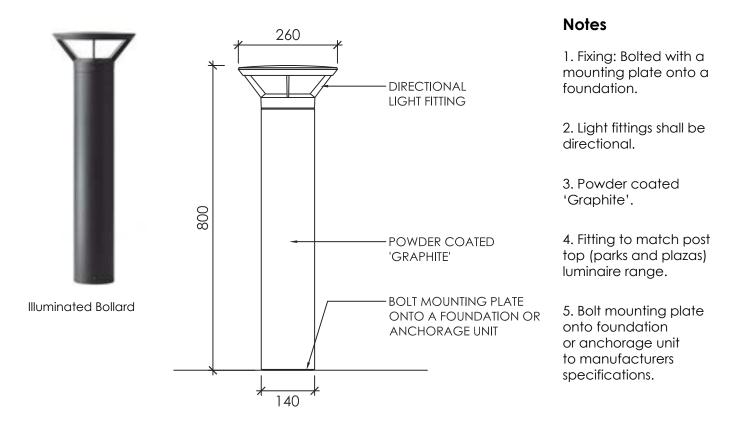
4. Painted in Matte Black (MTB).



Post top LED light



Typical illuminated bollard





Typical handrail lighting



Notes

1. Lighting to be housed within a stainless steel handrail.

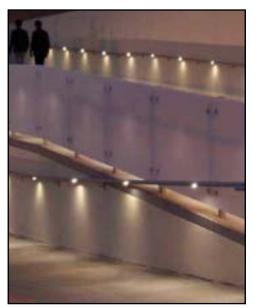
2. Point source lighting at a regular interval directed to the adjacent path of travel.

3. Light fittings to be easy to replace over time and to not be on a single circuit.

4. Light fitting must not protrude from handrail.

5. Stainless Steel fixture.

6. Lighting to be installed as per specification from Planet Lighting.



Indicative handrail lighting

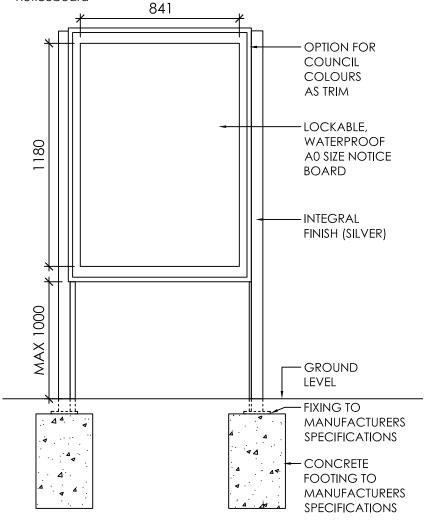
04 North Sydney Centre

Furniture and Fixtures

Typical community notice board - free standing



Indicative illustration of free standing community noticeboard



Notes

1. Integral finish (silver) to frame.

2. Option for council colours as a trim.

3. Lockable.

4. Waterproof.

5. Internal size A0 (1180 x 841mm).

6. Noticeboard - portrait orientation.

7. Base of noticeboard maximum 1m from ground level.

8. Weather proof seals.

9. Stainless steel hinges incorporated into the swing door.

10. Manual or gas struts door stays.

11. 3mm poly carbonate or acrylic cover.

12. Optional anti-graffiti film applied to cover.

13. Sign frame finishes range from anodised matt silver to standard powder coat colours.

Typical community noticeboard - wall mounted



Indicative illustration of wall mounted noticeboard in village bus stop (portrait)



Example of A0 noticeboard (landscape)

Notes

1. Integral finish (silver) to frame.

2. Option for council colours as a trim.

3. Lockable.

4. Waterproof.

5. Internal size A0 (1180 x 841mm).

6. Noticeboard - portrait orientation.

7. Base of noticeboard maximum 1m from ground level.

8. Wall mounted.

9. Weather proof seals.

10. Stainless steel hinges incorporated into the swing door.

11. Manual or gas struts door stays.

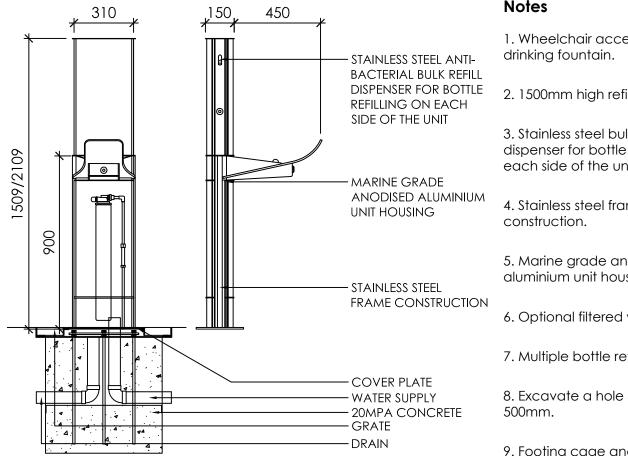
12. All fixings to be concealed.

12. 3mm Poly carbonate or acrylic cover.

13. Optional anti-graffiti film applied to cover.

14. Sign frame finishes range from anodised matt silver to standard powder coat colours.

Typical bottle refill station with drinking fountain



Bottle refilling station with drinking fountain

Notes

1. Wheelchair accessible

2. 1500mm high refill station.

3. Stainless steel bulk refill dispenser for bottle refilling each side of the unit.

4. Stainless steel frame

5. Marine grade anodised aluminium unit housing.

6. Optional filtered water unit.

7. Multiple bottle refill points.

8. Excavate a hole 440 x 730 x

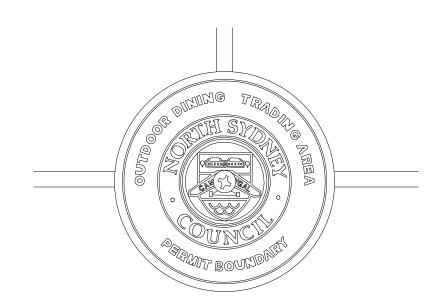
9. Footing cage and drainage tray installed with the top of the drainage tray flush with ground level.

10. Connect plumbing for drainage and water supply.



Bottle refilling station with drinking fountain

Typical alfresco demarcation line



Notes

1. Alfresco demarcation plaques are to be nailed to the pavement along the extent of licenced outdoor dining trading area.

2. Plaques are to be nailed into joints between pavers if possible.

3. Plaques are to be located in a consistent line at an interval appropriate to the scale of the space.

4. Plaques are to be supplied by council and are to have the North Sydney logo.

5. Plaques are brass and are epoxy fixed along with a central pin.





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4.9 Materials palette

(Approved equal alternative product may also be used)

NORTH SYDNEY CENTR	E MATERIALS PALETTE				
ITEM	MAIN STREET	LANEWAY	SHARED ZONE		
FOOTPATH AND ROAD WORKS DRAWINGS / PAVING DRAWINGS					
KERB AND GUTTER	Gutter Material:	Gutter Material:	Not Applicable		
	Concrete	Concrete			
	Finish:	Finish:			
	Finished with a steel trowel	Finished with a steel trowel			
	Kerb & Lintel Material: "Bruce" Rock (Coffee) Granite kerb stone	Kerb & Lintel Material: "Bruce" Rock (Coffee) Granite kerb stone			
	Finish: exfoliated finish to top face; sawn finish to front face.	Finish: exfoliated finish to top face; sawn finish to front face.			
PAVING - FOOTPATH	Material:	Material:	Not Applicable		
	Granite	Granite			
	Finish:	Finish:			
	Exfoliated	Exfoliated			
	Size:	Size:			
	50 x 400 x 600mm	50 x 200 x 300mm			
	Pattern:	Pattern:			
	Stretcher bond	Stretcher bond			
	Colour:	Colour:			
	Natural stone integral	Natural stone integral finish			
	finish	Base:			
	Base:	Rigid base - Reinforced concrete slab			
	Rigid base - Reinforced concrete slab (130mm	Granite equal or equivalent			
	thick)	to "Bruce" Rock (Austral			
	Granite equal or equivalent to "Bruce"	Juperana).			
	Rock (Austral Juperana).	Joint sealant:			
	Joint sealant:	Sikaflex - High Performance Polyurethane Joint Sealant			
	Sikaflex - High Performance Polyurethane Joint Sealant (Grey)	(Grey)			
	Paver sealant:	Dry Treat Stain Proof with			
	Dry Treat Stain Proof with Intensifia and wet look sealant	Infensifia and wet look sealant			

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FOOTPATH AND ROAD	WORKS DRAWINGS / PAVING	G DRAWINGS	·
PAVING - FOOTPATH - TACTILES	Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428	Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428	Not Applicable
	Size:	Size:	
	Individual tactile studs	Individual tactile studs	
	Pattern:	Pattern:	
	As per A\$1428.4.1	As per A\$1428.4.1	
	Colour:	Colour:	
	Black top silver sides	Black top silver sides	
	Fixing:	Fixing:	
	Drill and pressure fit or drill and glue	Drill and pressure fit or drill and glue	
	Equal or equivalent to DTAC tactile terraced black top (Stainless Steel (316)	Equal or equivalent to DTAC tactile terraced black top (Stainless Steel (316)	
UTILITY PIT	Material:	Material:	Not Applicable
SURROUNDS (IN FOOTPATH PAVING)	Coloured concrete - 'Chicory' by Sydney Decorative Concrete Warehouse	Coloured concrete - 'Chicory' by Sydney Decorative Concrete Warehouse	
	Mortar mix - Lanko 702 Durabed available from Bunnings Warehouse	Mortar mix - Lanko 702 Durabed available from Bunnings Warehouse	

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
PARKING DRAWINGS			
PAVING - VEHICULAR	Material:	Material:	Material:
CROSS OVER / SHARED ZONE ROAD PAVING	Granite Finish:	Precast concrete interlocking paving	Precast concrete interlocking paving
	Exfoliated	Colour:	Colour:
	Size:	Charcoal	Charcoal
	50 x 200 x 300mm	Size:	Size:
	Pattern:	80x112.5x225mm	80x112.5x225mm
	Stretcher bond	Bedding:	Bedding:
	Colour:	Paving sand	Paving sand
	Natural stone integral	(Coarse Paving Sand)	(Coarse Paving Sand)
	finish	Granite	Granite
	Base:	Finish:	Finish:
	Rigid base - Reinforced	Exfoliated	Exfoliated
	concrete slab (200mm thick)	Size:	Size:
	Material	80 x 200 x 300mm	80 x 200 x 300mm
	Granite equal or	Pattern:	Pattern:
	equivalent to "Bruce"	Stretcher bond interlocking	Stretcher bond interlocking
	Rock (Austral Juperana)	Colour:	Colour:
	Mortar:	Natural stone integral finish	Natural stone integral
	Parex Streetscape System mortar bed and	Base:	finish
	joining to manufacturer's specification	Rigid base - Reinforced concrete slab	Base:
	Joint sealant:	Material	Rigid base - Reinforced concrete slab
	Sikaflex - High Performance Polyurethane	Granite equal or equivalent to "Bruce" Rock (Austral	Material
	Joint Sealant (Grey)	Juperana)	Granite equal or equivalent to "Bruce"
	Paver sealant:	Mortar:	Rock (Austral Juperana)
	Dry Treat Stain Proof with Intensifia and wet look	Parex Streetscape System mortar bed and	Mortar:
	sealant	joining to manufacturer's specification	Parex Streetscape
		Joint sealant:	System mortar bed and joining to manufacturer's
		Sikaflex - High Performance	specification
		Polyurethane Joint Sealant	Joint sealant:
		(Grey)	Sikaflex - High
		Paver sealant:	Performance Polyurethane Joint
		Dry Treat Stain Proof with Intensifia and wet look	Sealant (Grey)
		sealant	Paver sealant:
			Dry Treat Stain Proof with Intensifia and wet look sealant

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
PARKING DRAWINGS			
KERB RAMPS	Material:	Material:	Not Applicable
	Granite	Granite	
	Finish:	Finish:	
	Exfoliated	Exfoliated	
	Granite equal or equivalent to "Bruce" Rock (Austral Juperana).	Granite equal or equivalent to "Bruce" Rock (Austral Juperana).	
	Base:	Base:	
	Rigid Base	Rigid Base	
PARKING METERS / PARKING LINES	North Sydney standard electronic parking meter. Yellow line markings (thermoplastic)	North Sydney standard electronic parking meter. Yellow line markings	North Sydney standard electronic parking meter. Contrasting granite line markings
			Material:
			Granite
			Finish:
			Exfoliated
			Size:
			80 x 200 x 300mm
			Pattern:
			Stretcher bond
			Colour:
			Natural stone integral finish
			Base:
			Rigid base - Reinforced concrete slab
			Granite equal or equivalent to "Bruce" Rock (Austral Juperana)
			Mortar:
			Parex Streetscape System mortar bed and joining to manufacturer's specification
			Joint sealant:
			Sikaflex - High Performance Polyurethane Joint Sealant
			Paver sealant:
			Dry Treat Stain Proof with Intensifia and wet look sealant

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
PAVING DRAWINGS			
PAVING - RECYCLED	Material:	Material:	Not Applicable
RUBBER SURFACING AT HOTEL LOADING	EPDM rubber surfacing	EPDM rubber surfacing	
ZONES	Base:	Base:	
	50mm crushed concrete aggregate.	50mm crushed concrete aggregate.	
	Colour Mixture:	Colour Mixture:	
	40% Brown, 40% Grey, 15% Beige and 5% Black	40% Brown, 40% Grey, 15% Beige and 5% Black	
	Base:	Base:	
	Rigid base - Reinforced concrete slab	Rigid base - Reinforced concrete slab	
LANDSCAPE DRAWING	S		
TREE PIT BASE TREATMENTS - EXISTING TREE	Existing CBD tree site with Filtapave porous paving surround	Not Applicable	Not Applicable
	Colour:		
	Cinnamon		
	Paving surround		
	Material:		
	Granite		
	Exfoliated		
	Size:		
	50 x 200 x 300mm		
	Pattern:		
	As per detail / butt jointed		
	Colour: Natural stone integral finish		
	Equal or equivalent to "Bruce" Rock (Austral Juperana)		
	Joint sealant:		
	Sikaflex - High Performance Polyurethane Joint Sealant (Grey)		
	Paver sealant:		
	Dry Treat Stain Proof with Intensifia and wet look sealant		
	Finish:		
	Base:		
	Rigid concrete base		
	Edge:		
	Steel edge with root barrier		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
UTILITY PIT SURROUND (IN FOOTPATH PAVING)	Material: concrete colour – Chicory from Sydney Decorative Concrete Warehouse; mortar mix – Lanko 702 Durabed from Bunnings Warehouse.	Material: concrete colour – Chicory from Sydney Decorative Concrete Warehouse; mortar mix – Lanko 702 Durabed from Bunnings Warehouse.	Not Applicable
PAVING DRAWINGS / L	ANDSCAPE DRAWINGS		
TREE PIT BASE TREATMENTS - PROPOSED TREE	Tree pit with steel edge min. 1m x1.6m tree pit. No header treatment Material:	Tree pit in road level granite kerb blister surround - refer to detail on page 66	Tree pit in road level granite kerb blister surround - refer to detail on page 66
	Filtapave porous paving		
	Colour:		
	Cinnamon		
	Paving surround		
	Material:		
	Granite		
	Equal or equivalent to "Bruce" Rock (Austral Juperana)		
	Joint sealant:		
	Sikaflex - High Performance Polyurethane Joint Sealant		
	Paver sealant:		
	Dry Treat Stain Proof with Intensifia and wet look sealant		
	Finish:		
	Exfoliated		
	Size:		
	50 x 200 x 300mm		
	Pattern:		
	As per detail, butt jointed		
	Colour: Natural stone integral finish		
	Base:		
	Rigid concrete base		
	Edge:		
	Steel edge with root barrier		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
BICYCLE RACKS	Material:	Material:	Material:
	Stainless steel	Stainless steel	Stainless steel
	Fixing:	Fixing:	Fixing:
	Circular Rings: Equal or equivalent to stainless steel bike ring assembly by HUB	Circular Rings: Equal or equivalent to stainless steel bike ring assembly by HUB	Circular Rings: Equal or equivalent to stainless steel bike ring assembly by HUB
	Inground Racks: Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage	Inground Racks: Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage	Inground Racks: Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage
SEATING	Timber seat approx. 1850 mm long with back rest.	Timber seat approx. 1850 mm long with back rest.	Not Applicable
	Bench seat approx. 1800mm long.	Bench seat approx. 1800mm long.	
	Stainless steel legs/frame.	Stainless steel legs/frame.	
	Spotted gum battens weathered for 6 months prior to installation.	Spotted gum battens weathered for 6 months prior to installation.	
	Fixing:	Fixing:	
	Seats and benches are to be subsurface fixed. Stainless steel anti- tamper fixing	Seats and benches are to be subsurface fixed. Stainless steel anti- tamper fixing	
	Equal or equivalent to Rondo seat by StraBe	Equal or equivalent to Rondo seat by StraBe	
RUBBISH BINS	North Sydney standard bin		
	Fixing:		
	Bins are to be subsurface fixed.		
	Spigot and socket mounted.		
	Equal or equivalent bin designed by lan Dryden of Dryden Crute Design Victoria/JC Brown.		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
125mm or 150mm BOLLARDS - FIXED	(Fixed, removable, automatic retractable)	Not Applicable	(Removable, automatic retractable)
INSITU, REMOVEABLE, AUTOMATIC	900mm high stainless steel		Removable Bollard
RETRACTABLE	bollard Finish:		900mm high stainless steel bollard
	Linished		Finish:
	Optional reflective tape		Linished
	Removable Bollard:		Optional reflective tape
	Socket and cap for when		Fixed Bollard
	bollard is removed		Removable Bollard:
	Fixed Bollard Fixing:		Socket and cap for when bollard is removed
	Bollards are to be subsurface fixed with		Automatic retractable Bollard:
	mass concrete footings. 125mm or 150mm equal		600mm high stainless steel bollard
	or equivalent to Leda		168mm diameter
	Slimline bollard (Fixed or removable (Locking and		125mm or 150mm
	removable))		equal or equivalent to Leda Slimline bollard
	Equal or equivalent to 168mm dia, 600mm high, 6mm wall thickness Advantage automatic retractable bollard by Leda		(removable (Locking and removable))
BUS SHELTER	Contemporary bus shelter.	Not Applicable	Not Applicable
	Glass awning		
	Advertising and signage panels if specified		
	Approx. 1800mm long timber seating with backrest		
	Equal or equivalent to JCDecaux 'Cox' bus shelter		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
STREET LIGHTING	Post Top LED with node	Post Top LED with node	Post Top LED with node
	Luminaire: IZYLUM 3 5304	Luminaire: IZYLUM 3 5307	Luminaire: IZYLUM 3 5307
	Wattage: 107W LED or as	40 LH351C 550mA	40 LH351C 550mA
	per commissioned lighting design	Wattage: 68W LED or as per commissioned lighting design	Wattage: 68W LED or as per commissioned lighting design
	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved	Sylvania Schreder Lighting or approved
	Multifunctional Pole	equivalent	equivalent
	Steel core Steel core – 220mm DIA	Multifunctional Pole Steel core – 168mm DIA	Multifunctional Pole Steel core – 168mm DIA
	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion
	Cladding: Rimex	Cladding: Rimex Height:	Cladding: Rimex Height:
	Height: 9.5m with single	7m	7m
	3.0m light outreach arm Banner arm: 2m outreach	Assembly: All fixtures	Assembly: All fixtures
	Assembly: All fixtures	(caps, grub screws, rag bolt system/cage etc)	(caps, grub screws, rag bolt system/cage etc)
	(caps, grub screws, rag bolt system/cage etc) Footing: As per manufacturer's specification	Footing: As per manufacturer's specification	Footing: As per manufacturer's specification
	North Sydney Hub Street Pole 9.5m (HUB-NSP- SL95-S3) or approved equivalent	North Sydney Hub Street Pole 7m (HUB-HUB- NSP-SL70) or approved equivalent	North Sydney Hub Street Pole 7m (HUB-HUB- NSP-SL70) or approved equivalent
PEDESTRIAN LIGHTING	Post Top LED with node	Post Top LED with node	Post Top LED with node
- (OPTION 1) PREFERRED OPTION UNLESS APPROVED	Luminaire: IZYLUM 3 5307 40 LH351C 550mA	Luminaire: IZYLUM 3 5307 40 LH351C 550mA	Luminaire: IZYLUM 3 5307 40 LH351C 550mA
OTHERWISE BY NORTH SYDNEY COUNCIL)	Wattage: 68W or as per commissioned lighting design	Wattage: 68W or as per commissioned lighting design	Wattage: 68W or as per commissioned lighting design
Refer to HUB Australasia for further details	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent
	Multifunctional Pole Steel	Multifunctional Pole Steel	Multifunctional Pole Steel
	core – 168mm DIA	core – 168mm DIA	core – 168mm DIA
	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion
	Height: 5m	Height: 5m	Height: 5m
	Assembly: All fixtures (caps, grub screws, rag	Assembly: All fixtures (caps, grub screws, rag	Assembly: All fixtures (caps, grub screws, rag
	bolt system/cage etc) Footing: As per manufacturer s specification	bolt system/cage etc) Footing: As per manufacturers specification	bolt system/cage etc) Footing: As per manufacturer s specification
	North Sydney Hub Street Pole 5m (HUB-NSP-PL50) or approved equivalent	North Sydney Hub Street Pole 5m (HUB-NSP-PL50) or approved equivalent	North Sydney Hub Street Pole 5m (HUB-NSP-PL50) or approved equivalent

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ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE	<u>,</u>	1	
PEDESTRIAN LIGHTING - (Option 2)	Post top LED luminaire on octagonal Vicpole	Post top LED luminaire on octagonal Vicpole	Post top LED luminaire on octagonal Vicpole
POST TOP LIGHT	Colour:	Colour:	Colour:
	Refer to drawings	Refer to drawings	Refer to drawings
	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.
PEDESTRIAN LIGHTING	Not Applicable	Wall luminaire LED	Wall lumingire LED
WALL MOUNTED		Finish:	Finish:
LIGHT		Powdercoated	Powdercoated
(Laneways and Shared Zones)		Colour:	Colour:
Sildred Zolles)		Graphite	Graphite
		Equal or equivalent to BEGA LED Wall luminaire.	Equal or equivalent to BEGA LED Wall luminaire.
PEDESTRIAN LIGHTING - POST TOP LIGHT	Post top LED luminaire on octagonal Vicpole	Not Applicable	Not Applicable
(Park / Plaza locations)	Colour:		
	Refer to drawings		
	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.		
PEDESTRIAN LIGHTING	LED 800mm high	LED 800mm high	LED 800mm high
- ILLUMINATED	illuminated bollard	illuminated bollard	illuminated bollard
BOLLARD	Finish:	Finish:	Finish:
	Powdercoated	Powdercoated	Powdercoated
	Colour:	Colour:	Colour:
	Graphite Fixing:	Graphite	Graphite Fixing:
	Bollards are bolted with a mounting plate onto a	Fixing: Bollards are bolted with a mounting plate onto a	Bollards are bolted with a mounting plate onto a
	foundation. Light fittings shall be directional.	foundation. Light fittings shall be directional.	foundation. Light fittings shall be directional.
	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED
PEDESTRIAN LIGHTING - HANDRAILS	LED integrated handrail lighting system	Not Applicable	Not Applicable
	Equal or equivalent to Planet Lighting HLS GEN4 LED integrated handrail lighting system.		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
MISCELLANEOUS COMMUNITY NOTICE BOARDS	Colour: Silver frame with option	Not Applicable	Not Applicable
Free standing community notice	for council colours to be incorporated as a trim		
board / Outdoor wall mounted notice	Key features:		
board	Lockable Waterproof		
	A0 (1180 x 841mm) internal dimension		
	Portrait orientation		
	Option for anti-graffiti film on notice board		
	Poly carbonate or acrylic cover		
	Equal or equivalent to HD1 Harsh Duty Outdoor Lockable Notice Board by Arrow Alpha		
	Equal or equivalent to MD6 Keyless Secure Notice Board by Arrow Alpha		
MISCELLANEOUS FIXTURES -FURNITURE	1500mm high refill station with drinking fountain	Not Applicable	Not Applicable
Bottle refill station with drinking fountain	Stainless steel bulk refill dispenser for bottle refilling each side of the unit		
	Marine grade anodised aluminium unit housing		
	Optional filtered water unit		
	Multiple bottle refill points		
	Changeable panels		
	Stainless steel drinking bowl		
	Stainless steel frame construction		
	Fixing:		
	Stainless steel base plate with drainage pit		
	Equal or equivalent to Aquafill product Type C 1500mm high refill station with drinking fountain by Arrow-Alpha Industries		
PAVING - ALFRESCO DINING AREAS	Outdoor dining - trading area permit boundary markers with North Sydney logo	Not Applicable	Not Applicable
	Material:		
	Brass		
	Fixing:		
	Epoxy fix with central pin		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
BANNER POLE	6063T6 Untapered high tensile aluminium	Not Applicable	Not Applicable
	Powdercoat finish		
	Equal or equivalent to Abel Elegance range banner pole		

05 Village Centres & Activity Strips

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Active & lively shopping strips and village centres with shops, restaurants, cafes and galleries. Characterised by smaller scale built form, more intimate character, street level activity & pedestrian activity.



LEGEND

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Village Centre / Activity Strip

05 Village Centres and Activity Strips

Villages and activity strips within North Sydney LGA include:

- Wollstonecraft and Waverton railway station activity strips (Category 1 Paving)
- Blues Point Road activity strip (Category 1 Paving)
- Union Street activity strip (Category 1 Paving)
- Milsons Point / Kirribilli Villages (Category 1 Paving)
- Cammeray village (Category 1 Paving)
- Cammeray Road activity strip (Category 1 Paving)
- Neutral Bay village (Category 1 Paving)
- Cremorne village (Category 1 Paving)
- Hayes Street Wharf activity strip (Category 1 Paving)
- Clark Road activity strip (Category 1 Paving)
- Crows Nest bordered by Alexander Lane, Chandos Street and the Pacific Highway. (Category 2 Paving)

The villages of North Sydney are located on the north of Sydney Harbour. Many have views across to Sydney city and the harbour. Most are located at high points along ridge lines.

Villages and activity strips within the North Sydney LGA vary in size and use and are spread across the LGA. The extent of a village or activity strip is largely defined by its zoning; commercial and retail. Activity strips are generally located on Main streets.

In terms of built form villages generally have a building height of two stories with some exceptions of taller commercial or residential buildings. A consistent series of awnings are also often in place improving the comfort level for pedestrians below. Villages in North Sydney have a smaller scale and more intimate character than North Sydney Centre or St Leonards.

Villages generally contain main streets and laneways. In some instances Shared Zones may be incorporated in high pedestrian use areas.

Parks within villages shall be treated in the 'Parks and open space' section of this manual. Villages shall have a higher quality finish to pavements and street furniture than adjacent local / residential areas. Villages differ to local / residential areas in that they have continuous pavements from kerb to boundary line/ building line. Residential areas will have a grassed verge in most areas, villages will also have a greater provision of street furniture.

Consistency in materials is critical in village centres as it ensures they read as part of North Sydney, however it is also important that each village and activity strip has its own distinct character; and therefore have some elements that differ. This is achieved through the use of suburb / village logos, public art, street tree species and through the preservation of existing built form character.



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5.1 Materials palette objectives

The village centre public domain materials palette should respond to the more intimate character and smaller scale of village areas.

The materials palette should reflect and reinforce local character, heritage and place.

The incorporation of suburb logos provides an opportunity for branding and identity that is distinct to the suburb. Logos can be incorporated in street furniture such as bollards, seating and pedestrian barriers.

Materials selection should have longevity and proven performance under high usage.

Contents

Main Street

- Main Street (Category 1 Paving)
 - Typical footpath paving pattern design plan
 - Module A Paving typical paving design
 - Module B Paving typical transition module between Module-A and Type-1 (lighter) paving
 - Module C Paving typical transition module between Module-A and Type-2 (darker) paving
 - Typical footpath paving pattern plan and crosssection
 - Typical driveway treatment
 - Typical precast concrete paving edge restraint concrete haunch, concrete strip, steel edge
 - Typical existing tree site porous rubber surround
 - Typical new tree site formation
- Main Street Category 2 Paving
 - Typical footpath paving pattern design plan
 - Typical driveway treatment
 - Typical precast concrete paving edge restraint concrete haunch, concrete strip, steel edge
 - Typical existing tree site porous rubber surround
 - Typical new tree site formation
 - Typical kerb ramp
 - Typical kerb ramp configuration
 - Typical kerb and gutter
- Main Street (Category 2 Paving)
 - Typical kerb ramp

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- Typical kerb ramp configuration
- Typical kerb and gutter

- Typical threshold with planting and unit paving
- Main Street Typical rubber paver at "hotel" loading zones

Laneway

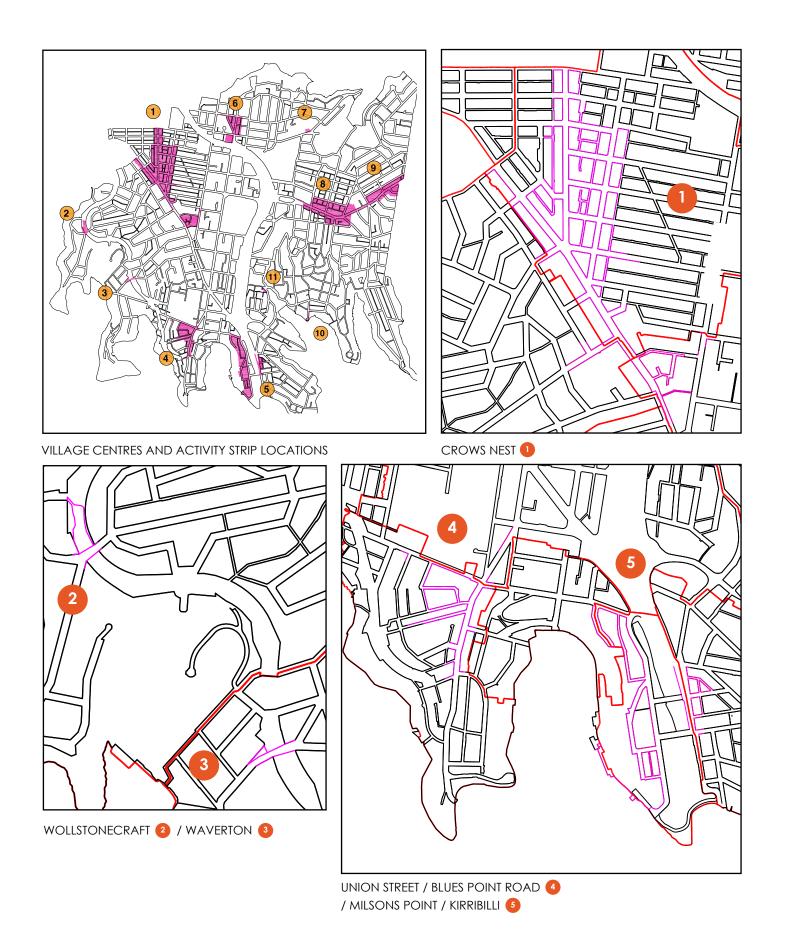
• Typical footpath paving in laneways

Shared zone

- Typical raised crossing at entry to shared zone (footpath continuation) Category 1 Paving
- Typical raised crossing at entry to shared zone (footpath continuation) Category 2 Paving
- Typical shared zone section
- Typical parking demarcation in pavers shared zone only
- Typical road pavers interlocking including concrete base
- Typical tree pit at grade in shared zone plan and section

Furniture and Fixtures

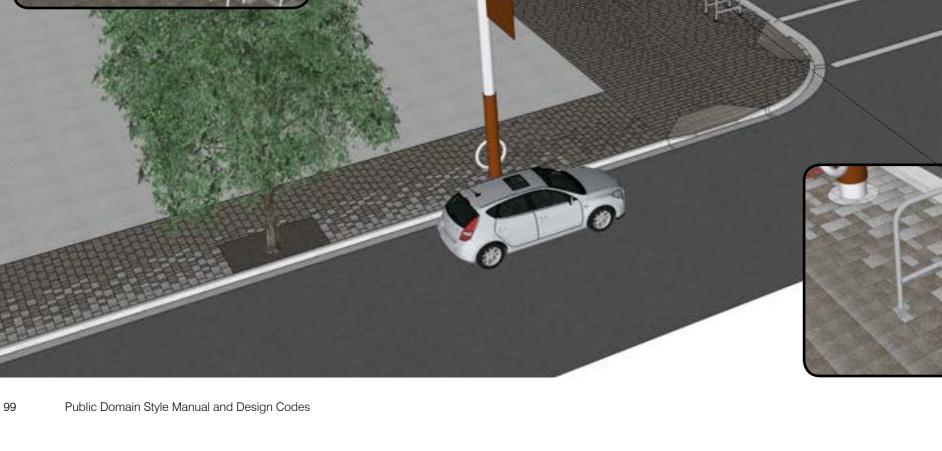
- Typical seating with back
- Typical bench
- Typical metal bin installation detail
- Typical 125mm and 150mm bollard fixed and removable
- Typical parking meter
- Typical bicycle parking
- Typical bus shelter
- Typical alfresco demarcation line
- Typical post top light (Main Street)
- Typical post top light default option 1 (Laneways and shared zones)
- Typical post top light option 2 (Laneways and shared zones)
- Typical wall mounted light (Laneways and shared zones)
- Typical octagonal light pole (Public plazas and spaces)
- Typical illuminated bollard
- Typical handrail lighting
- Typical modified RMS Pedestrian Fences barriers
- Typical community notice board free standing
- Typical community noticeboard wall mounted
- Typical community notice board free standing open
- Typical bottle refill station with drinking fountain



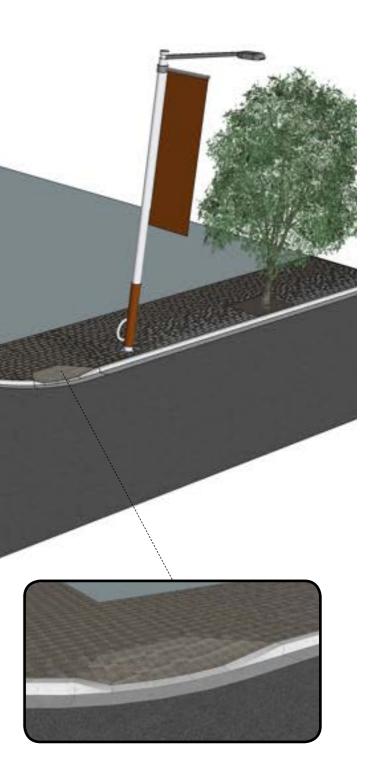


5.2 Main streets - perspective view (Category 1 Paving) - applicable to all areas except Crows Nest Village





05 Village Centres and Activity Strips



5.3 Main streets - plan and section view (Category 1 Paving) - applicable to all areas except Crows Nest Village



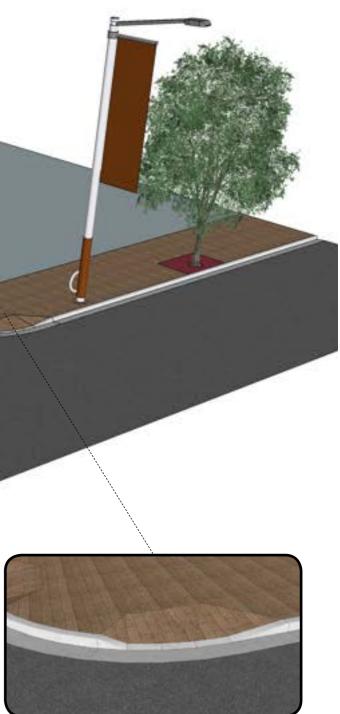


5.4 Main streets - perspective view (Category 2 Paving) - Crows Nest Village Only



05 Village Centres and Activity Strips





5.5 Main streets - plan and section view (Category 2 Paving) - Crows Nest Village Only



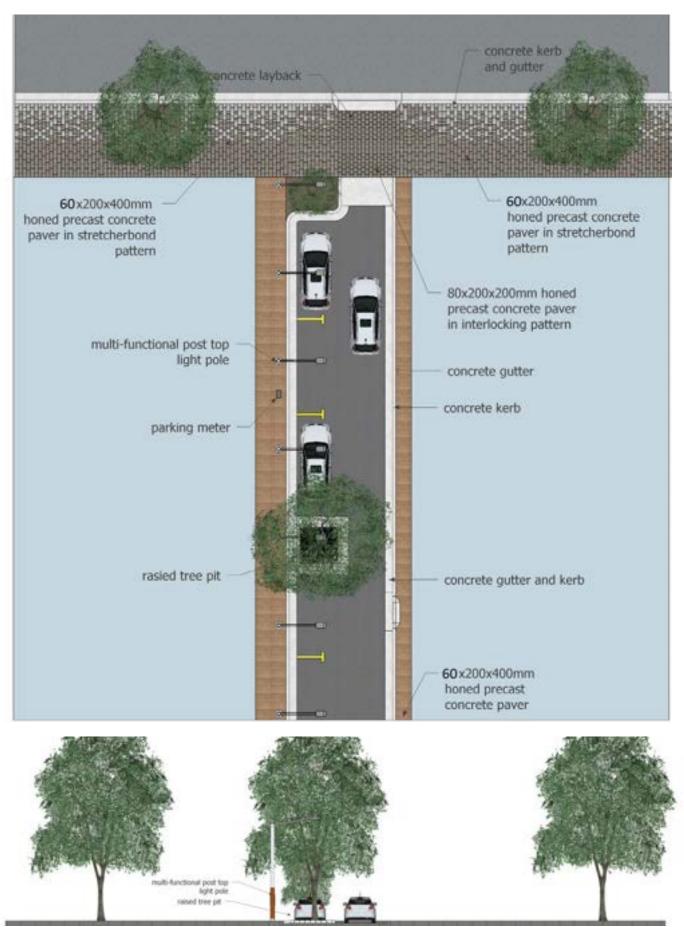




05 Village Centres and Activity Strips

North Sydney Council

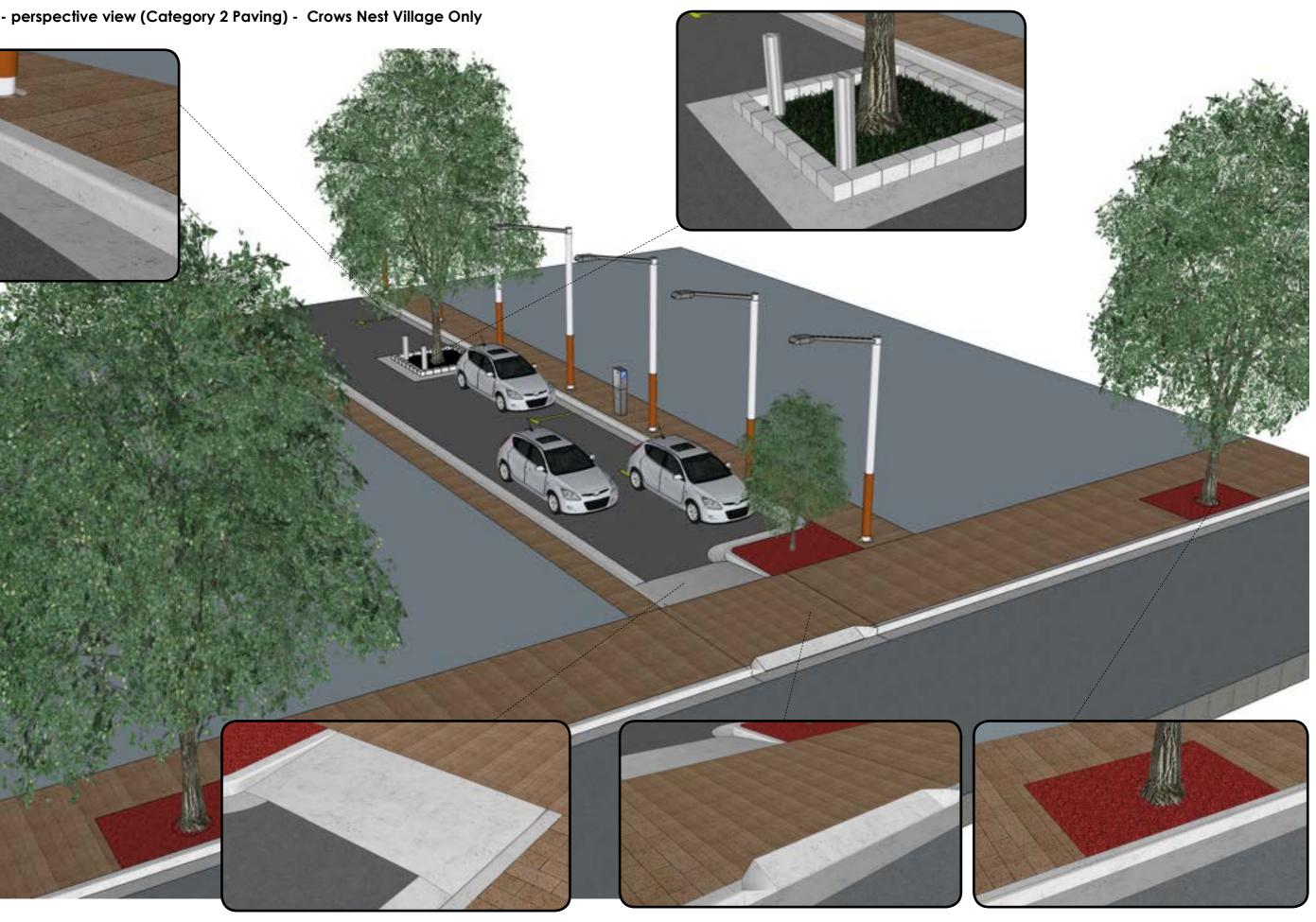
5.7 Laneways - plan and section view (Category 1 Paving) - applicable to all areas except Crows Nest Village



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5.8 Laneways - perspective view (Category 2 Paving) - Crows Nest Village Only

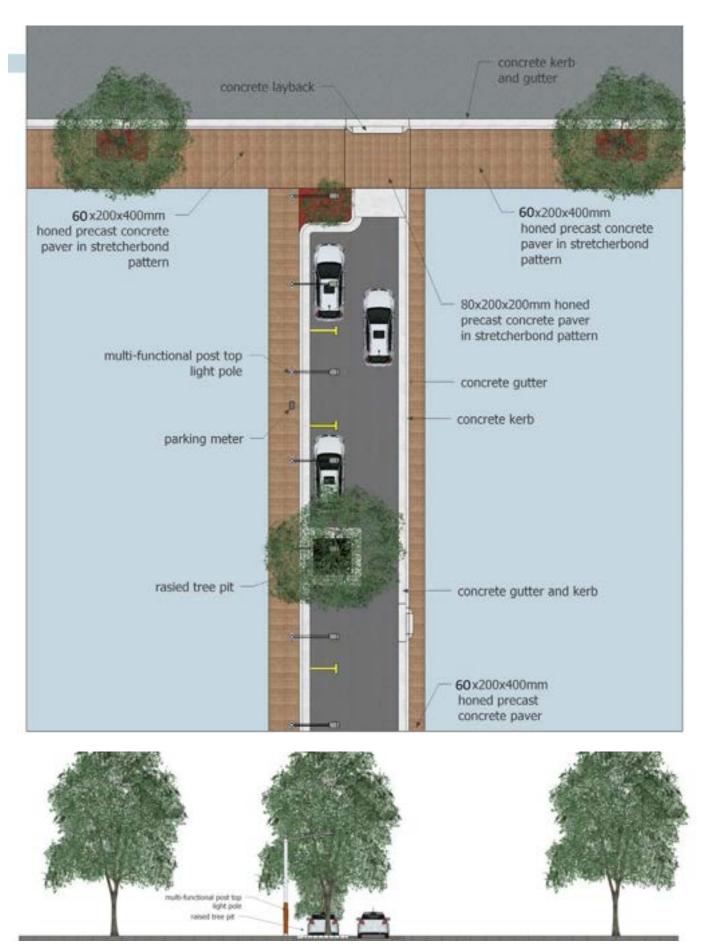




05 Village Centres and Activity Strips

North Sydney Council

5.9 Laneways - plan and section view (Category 2 Paving) - Crows Nest Village Only

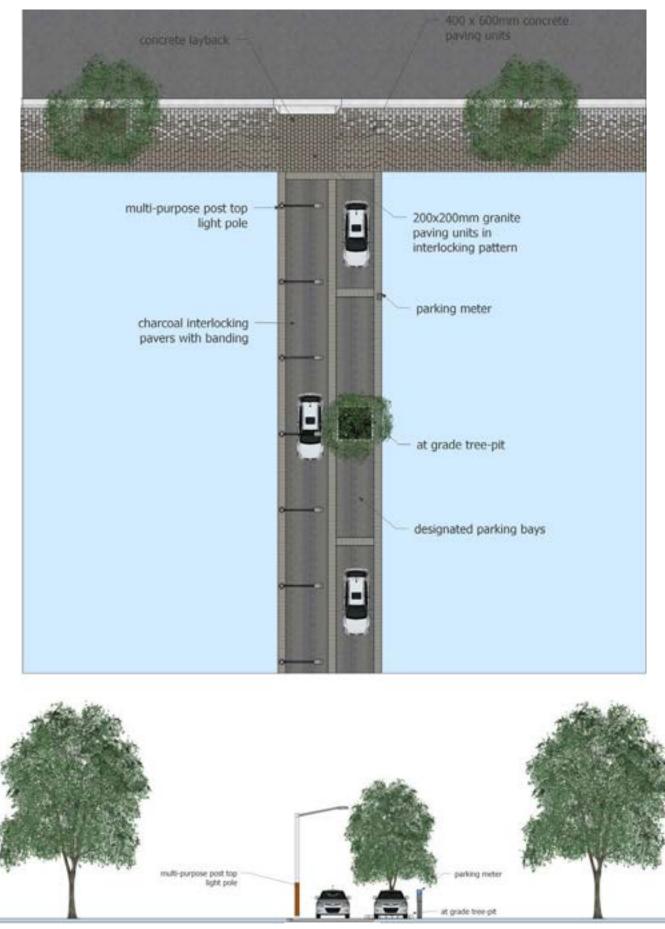


Public Domain Style Manual and Design Codes



05 Village Centres and Activity Strips

5.11 Shared zone - plan and section view (Category 1 Paving) - applicable to all areas except Crows Nest Village

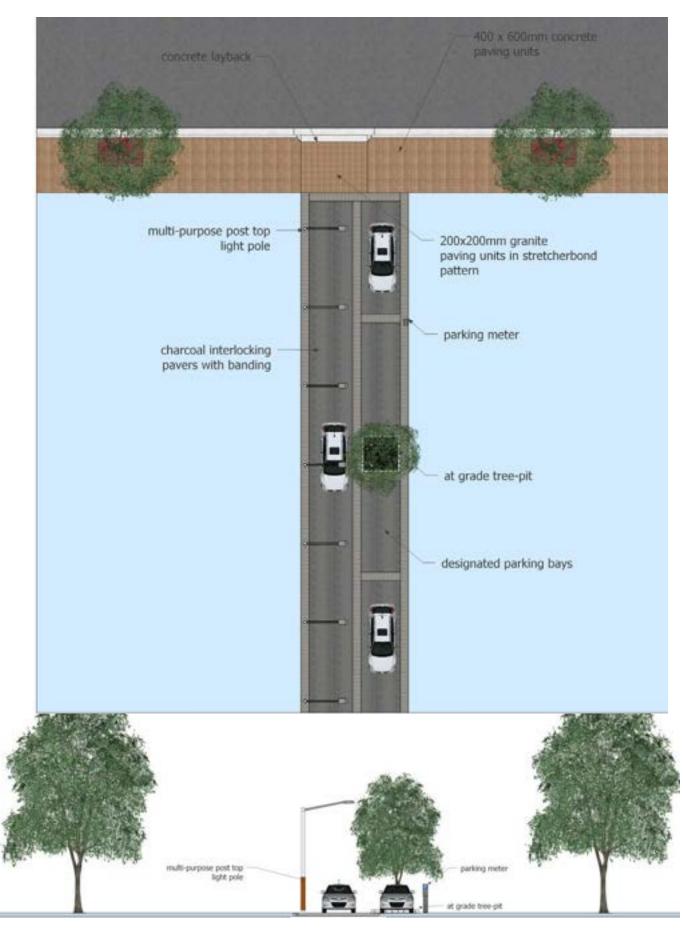




05 Village Centres and Activity Strips

North Sydney Council

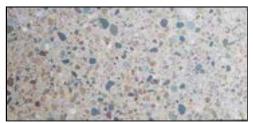
5.13 Shared zone - plan and section view (Category 2 Paving) - Crows Nest Village Only



5.14 Indicative Materials and Furniture



Typical footpath paving pattern design plan



Precast concrete unit paver - type 1 (refer below for more information)

Paving Unit Sizes

1. Paving Type A: 60 x 200 x 400mm

- 2. Paving Type B: 60 x 200 x 300mm
- 3. Paving Type C: 60 x 200 x 200mm
- 4. Paving Type D: 60 x 200 x 100mm

Paving Unit Types

- 1. Paving Type 1: PPX540: 35D
- 2. Paving Type 2: PPX1837: 35D

3. Paving Type 3: Cut to size as per site requirement

NOTE: PPX540 : **RD** and PPX1837: **RD** Rough Diamond(RD) finish may be used where higher slip resistance is desirable.

Paving Module Types

Module A - (2400x3500mm) - Typical random two-tone pattern

Module B - (2400x3500mm) - Typical transition module between existing paving and typical module A.

Module C - (2400x3500mm) - Typical transition zone



Precast concrete unit paver - type 2 (refer below for more information)

Paving Design Notes

1. Precast concrete unit pavers as per 180917-North Sydney Combine Paving Details 2019.

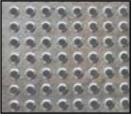
2. Precast concrete unit paver with a honed finish laid in a stretcherbond pattern on a rigid base.

3. Mid coloured precast concrete paving with a fleck of colour for warmth. Pavers are to have a prominent but small sized aggregate to add warmth to the paver.

4. Butt jointed, stretcher bond paving pattern with no header or banding.

5. Kerb ramp located in alignment with boundary.

6. Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428



Stainless Steel Tactile Ground Surface Indicators

7. All existing service pits within the footpath shall be replaced with concrete lids. Telstra service pits may be plastic or concrete.

8. Where finished footpath surface levels do not match existing, contact Council's parking meter services division for further details about footing requirements and repositioning of meter stem.

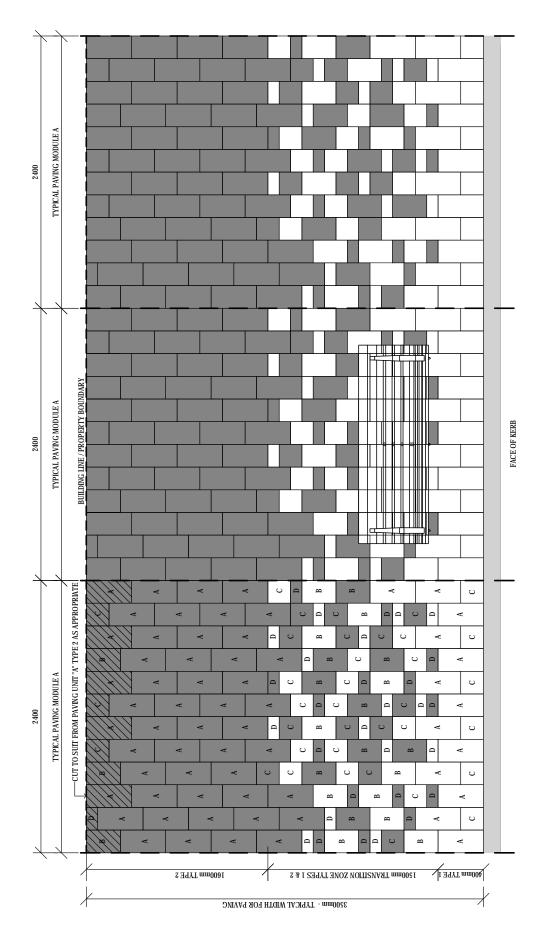
9. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

10. All open joints shall be sealed with Bostik "Seal 'N' Flex 1" Black colour in accordance with the manufacturer's recommendations - this includes boundaries, back of kerb and lintels, utility pits, construction

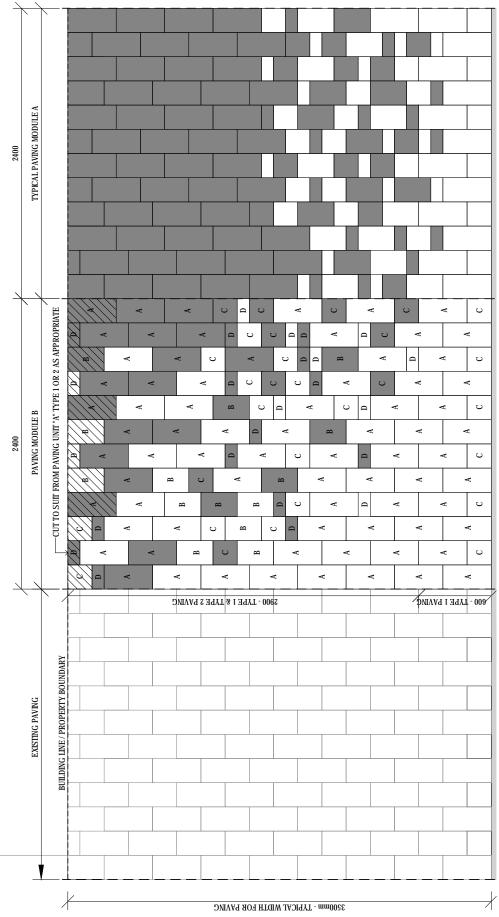
joints etc. (Colour Black)



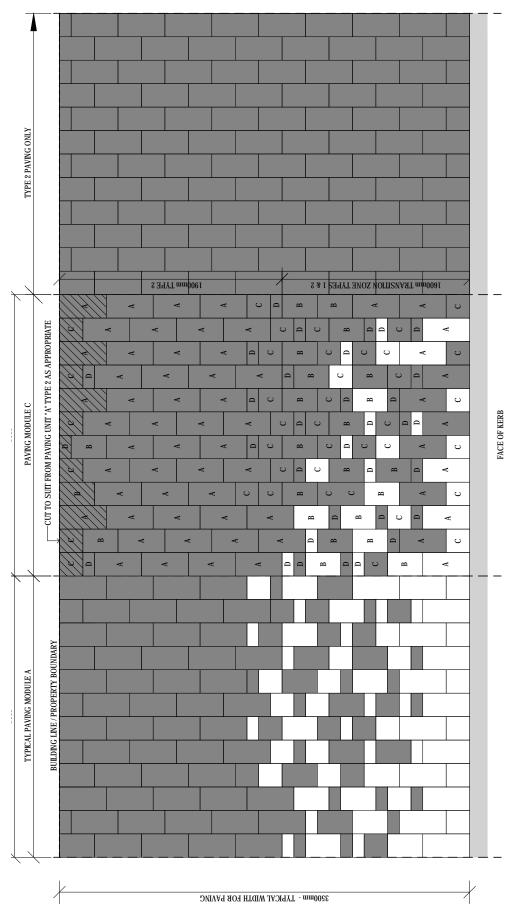
Module A Paving - typical paving design



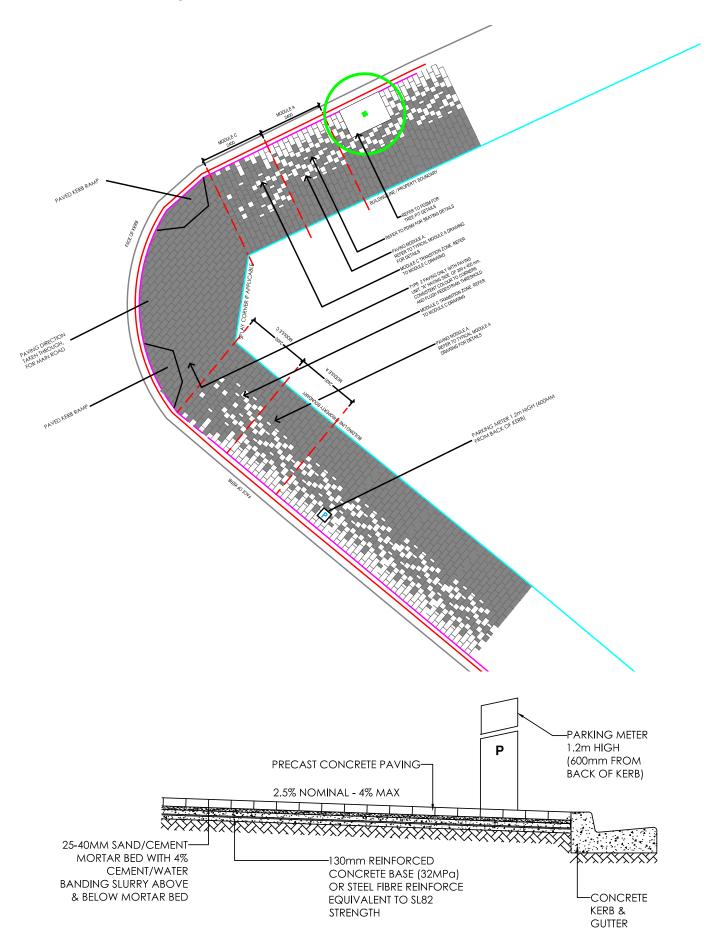
Module B Paving - typical transition module between Module-A and Type-1 (lighter) paving



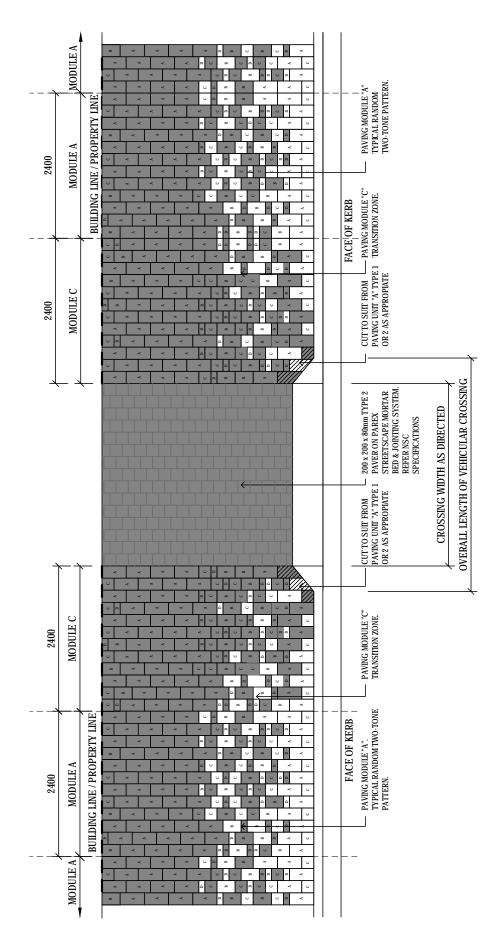
Module C Paving - typical transition module between Module-A and Type-2 (darker) paving



Typical footpath paving pattern plan and cross-section

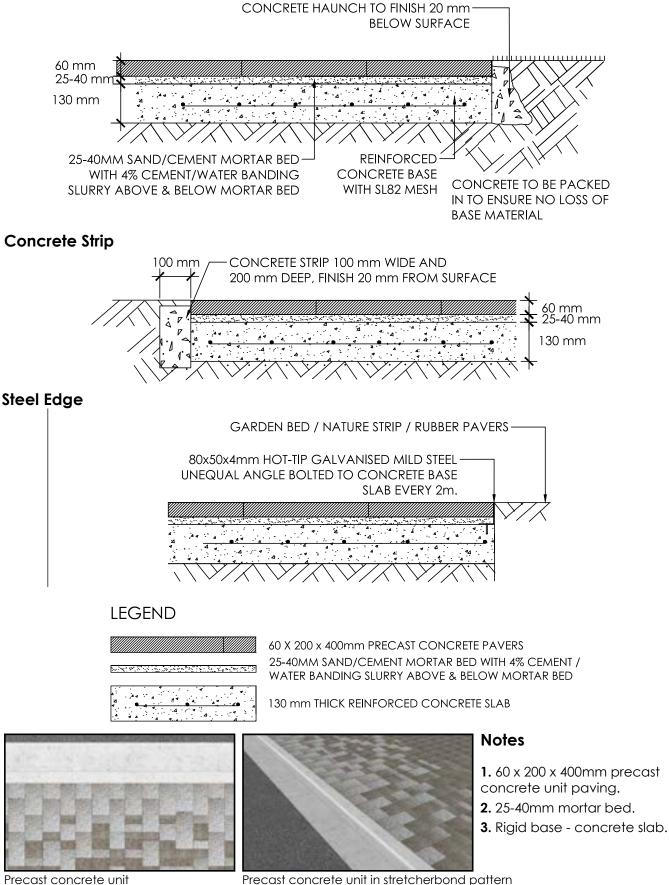


Typical driveway treatment



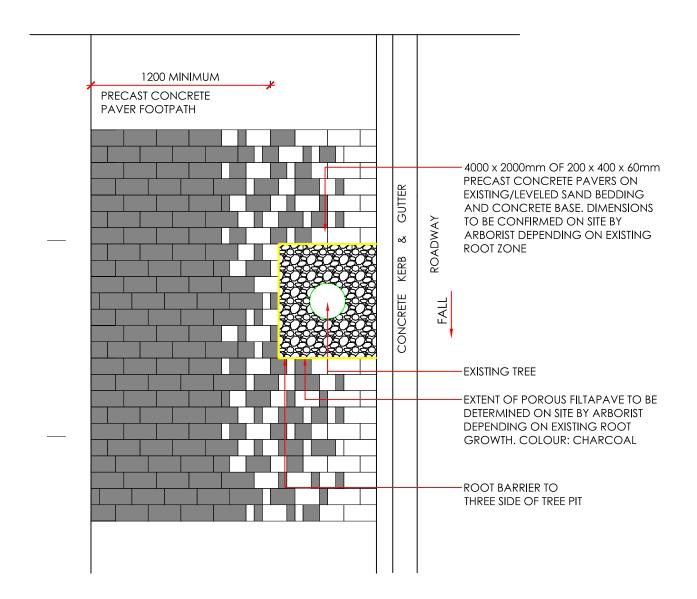
Typical precast concrete paving edge restraint - concrete haunch, concrete strip, steel edge

Concrete haunch



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Typical existing tree site porous rubber surround





Notes

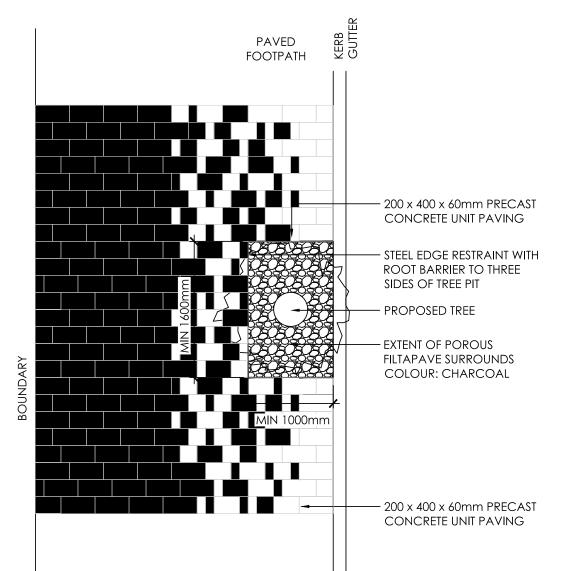
1. Existing tree site with FILTAPAVE porous surround.

2. Colour: Charcoal.

3. 60 x 200 x 400mm precast concrete unit paver with a honed finish, laid in a butt jointed, stretcherbond pattern shown on the detail.

4. Existing base or rigid base to paving surround.

Typical new tree site formation



Notes

1. Tree site formed in paving pattern.

2. Edge restraint as per 'Typical precast concrete paving edge restraint' details.

3. 60 x 200 x 400mm precast concrete unit paver with a honed finish.

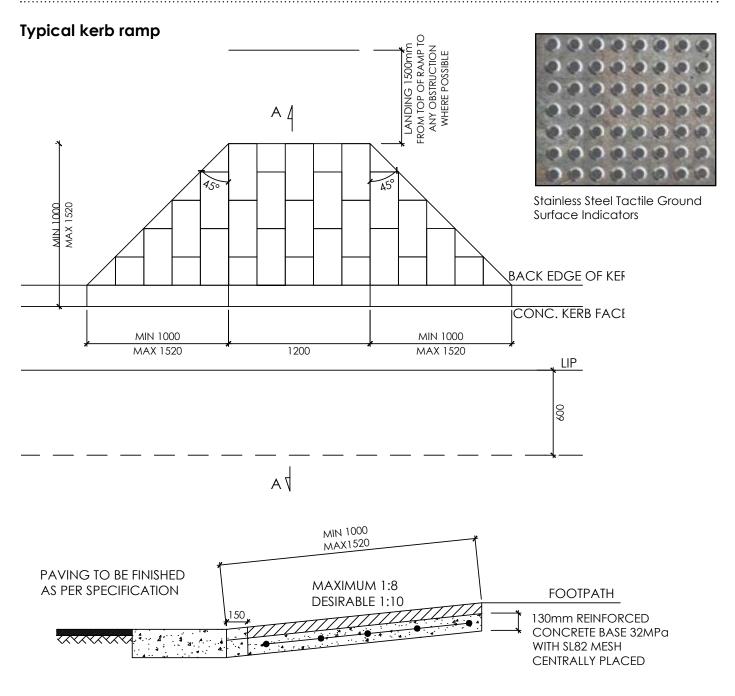
4. Tree pit min 1m x 1.6m with FiltaPave rubber surround. Colour: Charcoal



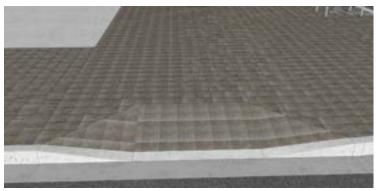
Tree site paving pattern (New tree)

05 Village Centres and Activity Strips

Main Street (Category 1 Paving) - all areas except Crows Nest Village



SECTION A-A



Typical kerb ramp

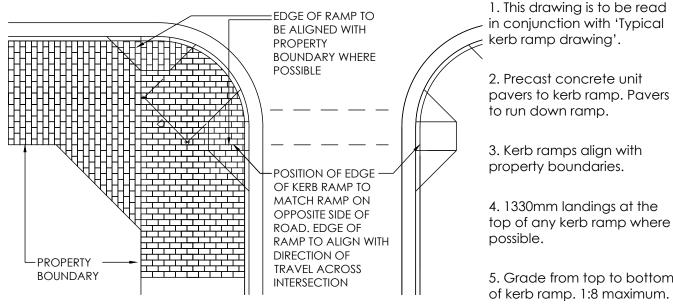
Notes

1. All kerb ramps shall be constructed in precast concrete pavers 60 x 200 x 400mm.

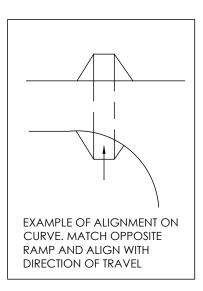
2. For ramps greater than 1520mm, maximum grade is 1 in 14. Ramps typically 1:10 grade, max 1:8.

3. Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428

Typical kerb ramp configuration



PLAN



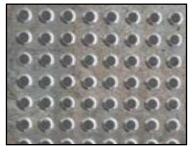
Notes

5. Grade from top to bottom of kerb ramp. 1:8 maximum.

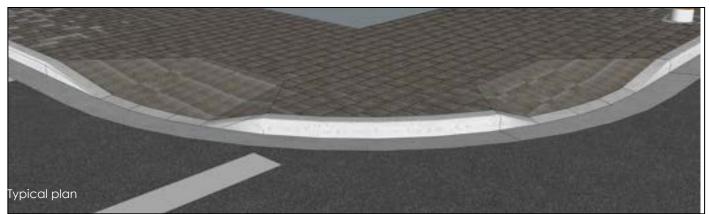
6. Kerb ramp to finish flush with adjacent paving.

7. Kerb ramps to comply with AS1428.1.

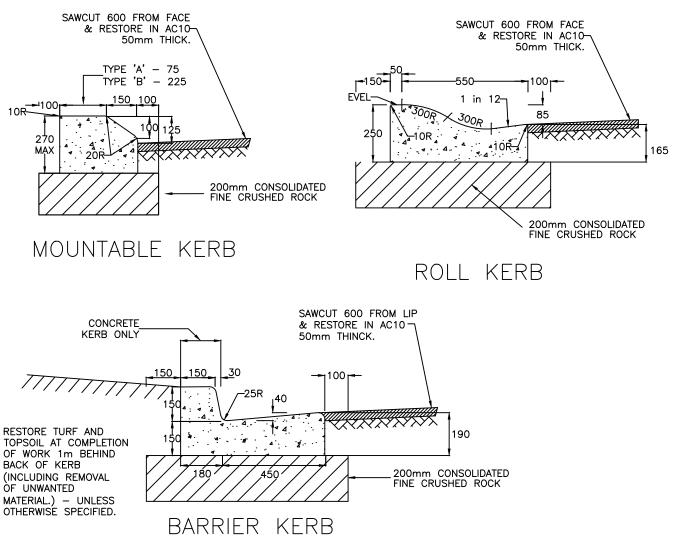
8. Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428



Stainless Steel Tactile Ground Surface Indicators



Typical kerb and gutter



Notes

1. Base course - Consolidated fine crushed rock to councils specification.

2. Concrete finish

A. All edges shall be tool finished with 12mm rad. 50mm wide edging tool.

B. Gutter and layback shall be finished with a steel trowel.

C. Driveway slab to be Cove finish.

3. Expansion joints

Expansion joints shall be placed at 6m intervals.

4. All plan dimensions are in millimetres.

5. AC10mm adjustment. Provide 600mm wide AC10 correction course layer 50mm thick as shown.



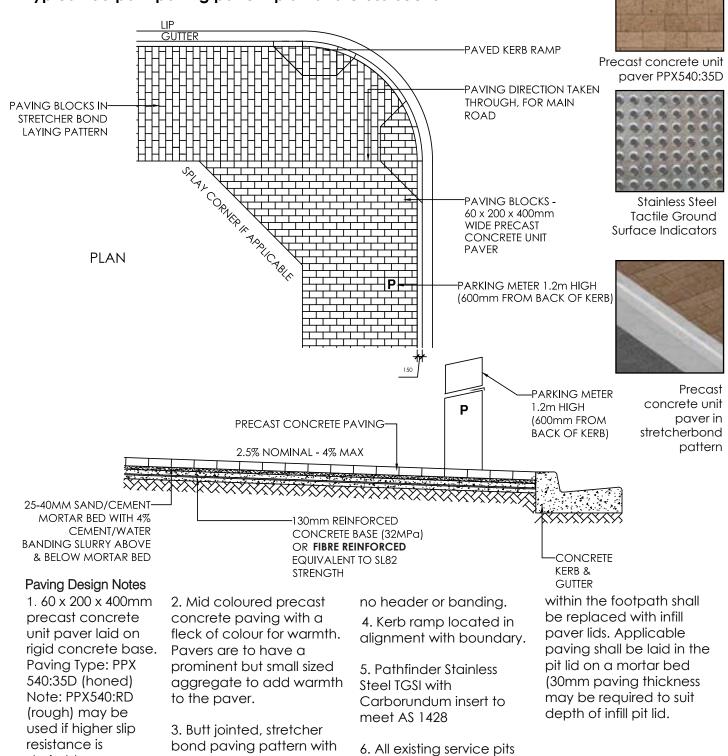
Kerb and gutter treatment - Category 1 Paving

Existing kerb and gutter treatment Category 2 Paving



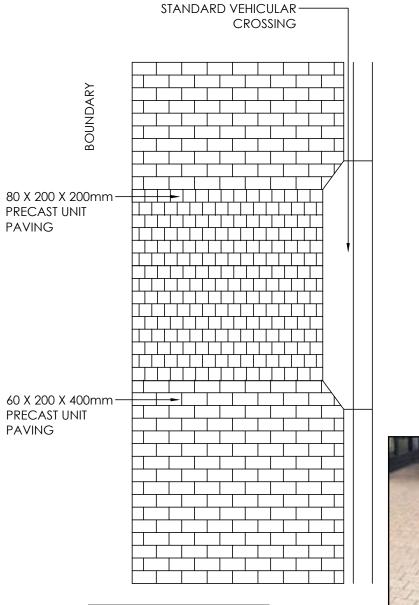


Typical footpath paving pattern plan and cross-section





Typical driveway treatment





1. To be laid in stretcherbond pattern on a rigid base to prevent rutting.

2. Parex Streetscape System mortar bed and joining.



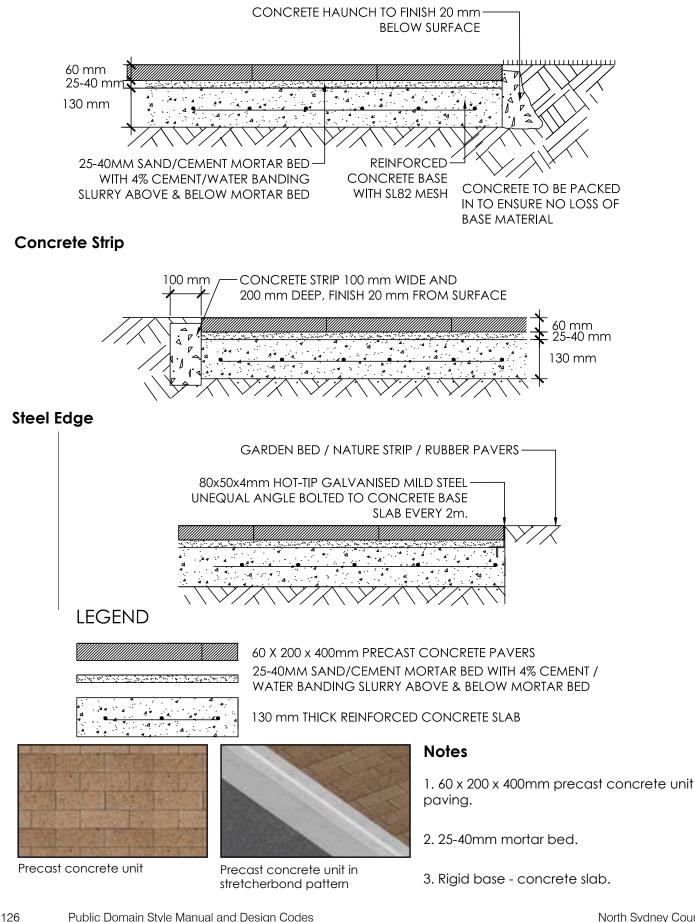
Concrete Pavers



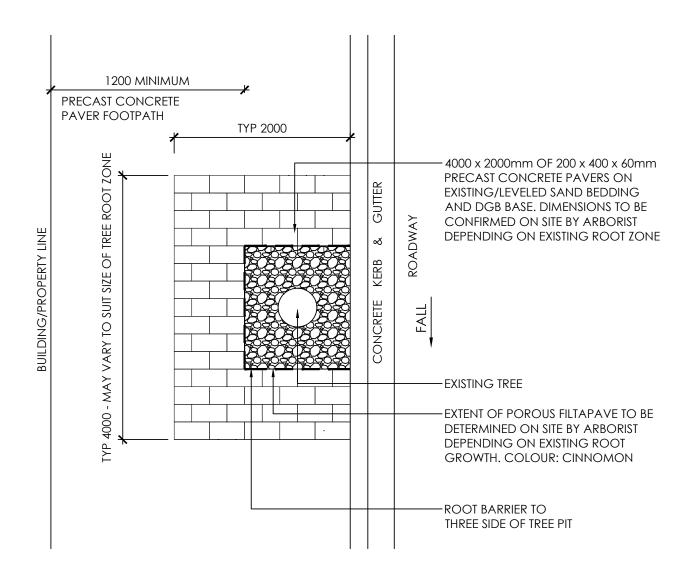
Typical driveway treatment

Typical precast concrete paving edge restraint - concrete haunch, concrete strip, steel edge

Concrete haunch



Typical existing tree site porous rubber surround





Notes

1. Existing tree site with FILTAPAVE porous surround.

2. Colour: Cinnamon.

3. 60 x 200 x 400mm precast concrete unit paver with a honed finish, laid in a butt jointed, stretcherbond pattern shown on the detail.

4. Existing base or rigid base to paving surround.

Typical new tree site formation

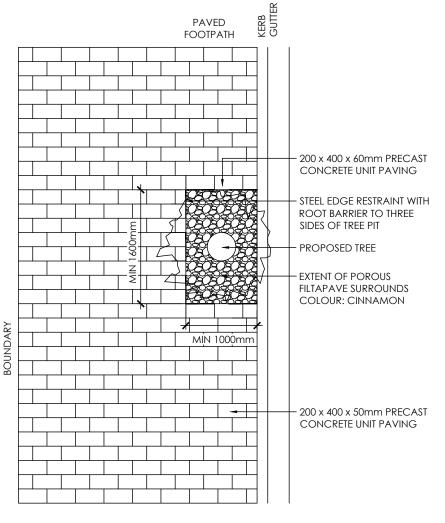
Notes

1. Tree site formed in paving pattern.

2. Edge restraint as per 'Typical precast concrete paving edge restraint' details.

3. 60 x 200 x 400mm precast concrete unit paver with a honed finish.

4. Tree pit min 1m x 1.6m with FiltaPave rubber surround. Colour: Cinnamon





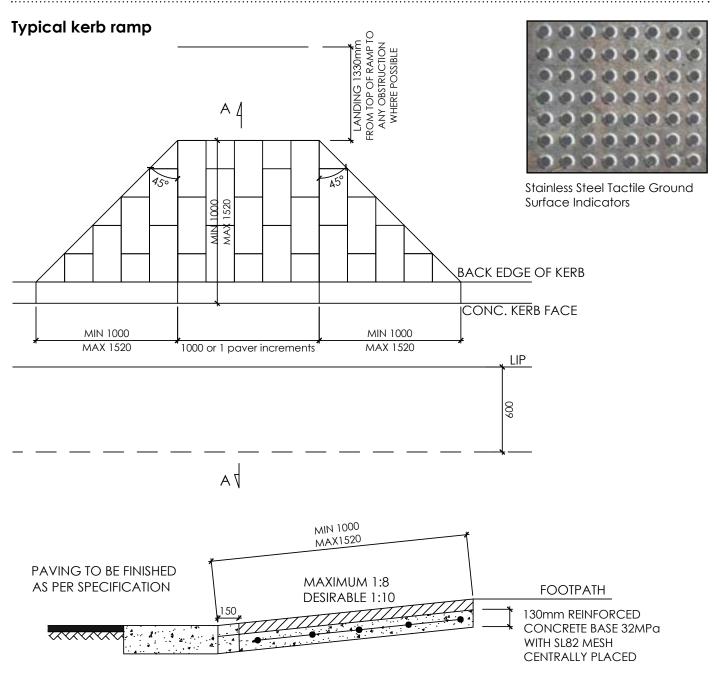
Tree pit



Tree site paving pattern (New tree)

05 Village Centres and Activity Strips

Main Street - Category 2 Paving - Crows Nest Village Only



SECTION A-A



Typical kerb ramp

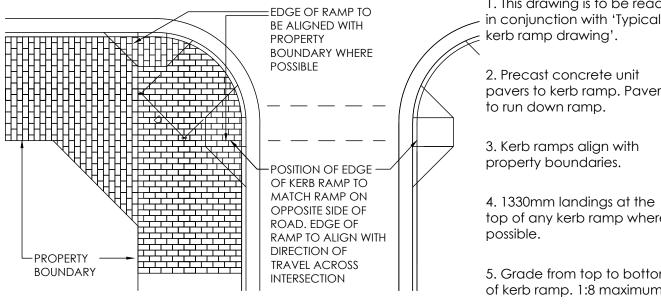
Notes

1. All kerb ramps shall be constructed in precast concrete pavers 60 x 200 x 400mm.

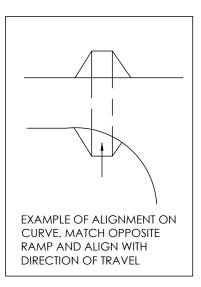
2. For ramps greater than 1520mm, maximum grade is 1 in 14. Ramps typically 1:10 grade, max 1:8.

3. Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428

Typical kerb ramp configuration



PLAN



Notes

1. This drawing is to be read in conjunction with 'Typical

pavers to kerb ramp. Pavers

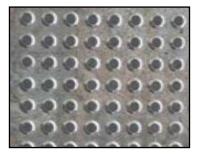
top of any kerb ramp where

5. Grade from top to bottom of kerb ramp. 1:8 maximum.

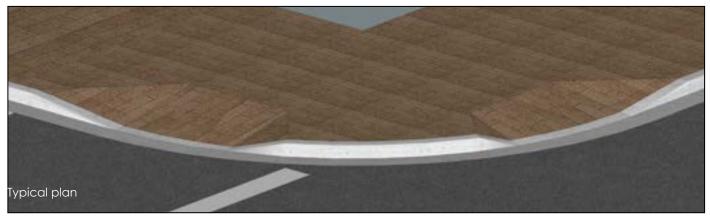
6. Kerb ramp to finish flush with adjacent paving.

7. Kerb ramps to comply with AS1428.1.

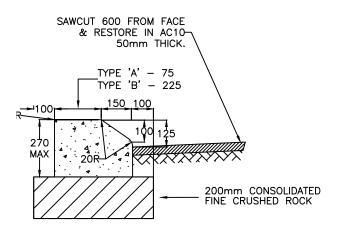
8. Pathfinder Stainless Steel **TGSI** with Carborundum insert to meet AS 1428



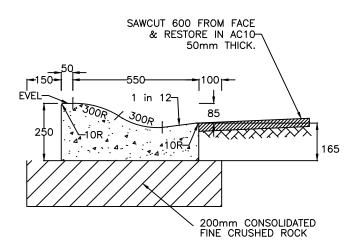
Stainless Steel Tactile Ground Surface Indicators



Typical kerb and gutter



MOUNTABLE KERB



ROLL KERB

CONCRETE

KERB ONLY

Notes

1. Base course

Consolidated fine crushed rock to councils specification.

2. Concrete finish

A. All edges shall be tool finished with 12mm rad. 50mm wide edging tool.

B. Gutter and layback shall be finished with a steel trowel.

C. Driveway slab to be Cove finish.

3. Expansion joints

Expansion joints shall be placed at 6m intervals.

4. All plan dimensions are in millimetres.

5. AC10mm adjustment. Provide 600mm wide AC10 correction course layer 50mm thick as shown.





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200mm CONSOLIDATED FINE CRUSHED ROCK

SAWCUT 600 FROM LIP

& RESTORE IN AC10

50mm THINCK.

100



Existing kerb and gutter treatment

RESTORE TURF AND TOPSOIL AT COMPLETION OF WORK 1m BEHIND BACK OF KERB (INCLUDING REMOVAL OF UNWANTED MATERIAL.) – UNLESS OTHERWISE SPECIFIED.

131

ΤΠΠ

BARRIER

<u>3</u>0

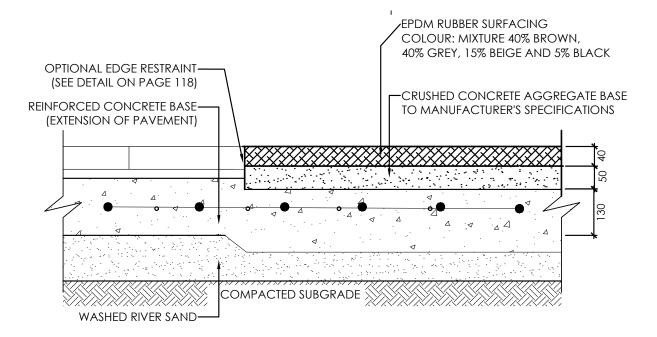
25R

40

KERB

Main Street

Typical rubber paver at "hotel" loading zones



Notes

1. EPDM rubber surfacing. Colour: 40% brown, 40% grey, 15% beige and 5% black

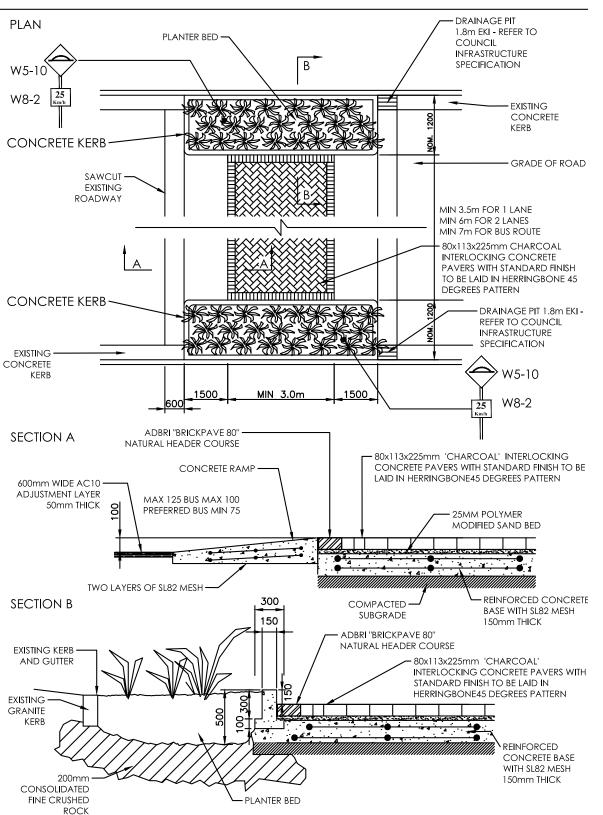
- 2. Base to be 50mm crushed concrete aggregate.
- 3. Rigid base Reinforced concrete slab 32MPA with SL82 central mesh



Recycled rubber surfacing

Main Street

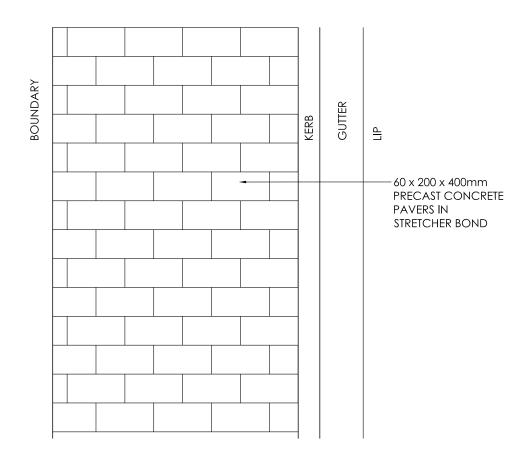
Typical threshold with planting and unit paving



NOTE: THE USE OF GUTTER BRIDGES FOR DRAINAGE IS NOT ACCEPTABLE

Laneway

Typical footpath paving in laneways





Precast concrete unit



Precast concrete unit in stretcherbond pattern

Notes

1. 60 x 200 x 400mm precast concrete unit paver with a honed finish. Laid in stretcherbond pattern on a rigid base.

2. Mid coloured precast concrete paving with a fleck of colour for warmth. Pavers are to have a prominent but small sized aggregate to add warmth to the paver.

3. Butt jointed, stretcher bond paving pattern with no header or banding.

Shared zone - Category 1 Paving - all areas except Crows Nest Village

Typical raised crossing at entry to shared zone (footpath continuation)



Shared Zone Interlocking concrete pavers



Shared Zone Interlocking concrete pavers with soldier course



Precast concrete unit paver - type 1



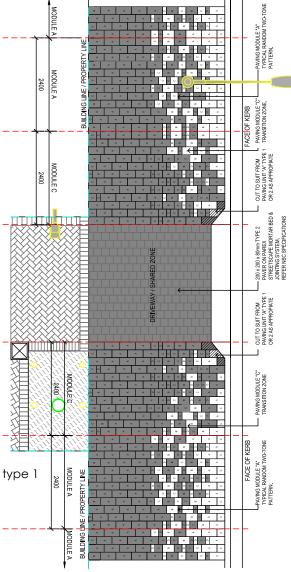
Precast concrete unit paver - type 2



Driveway treatment



Driveway treatment - detail



1. Footpath: 60 x 200 x 400mm precast concrete unit paver with a honed finish laid in a stretcherbond pattern on a rigid base.

Notes

2. Footpath: Mid coloured precast concrete paving with a fleck of colour for warmth. Pavers are to have a prominent but small sized aggregate to add warmth to the paver.

3. Footpath: Butt jointed, stretcher bond paving pattern with no header or banding.

4. Shared zone: 80 x 113 x 225mm 'Charcoal' (dark grey) coloured interlocking concrete pavers with standard finish. To be laid in herringbone 45 degrees pattern on a concrete base to prevent rutting.

5. Cross over: 200 x 200 x 80mm paver in stretcher bond.

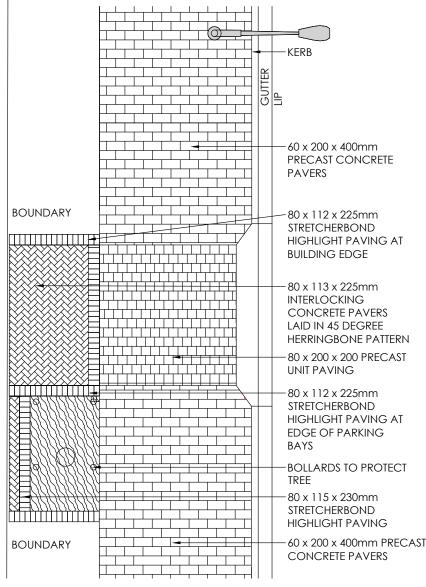
Colour to match adjacent footpath. Parex Streetscape System mortar bed and joining to manufacturer's specification.

6. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

7. All open joints shall be sealed with Bostik "Seal 'N' Flex 1" in accordance with the manufacturer's recommendations - this includes boundaries, back of kerb and lintels, utility pits, construction joints etc

Shared zone - Category 2 Paving - Crows Nest Village Only

Typical raised crossing at entry to shared zone (footpath continuation)



Precast concrete unit

1. Footpath: 60 x 200 x 400mm precast concrete unit paver with a honed finish laid in a stretcherbond pattern on a rigid base.

2. Footpath: Mid coloured precast concrete paving with a fleck of colour for warmth. Pavers are to have a prominent but small sized aggregate to add warmth to the paver.

3. Footpath: Butt jointed, stretcher bond paving pattern with no header or banding.

4. Shared zone: 80 x 113 x 225mm 'Charcoal' (dark grey) coloured interlocking concrete pavers with standard finish. To be laid in herringbone 45 degrees pattern on a concrete base to prevent rutting.

5. Cross over: 200 x 200 x 80mm paver in stretcher bond.

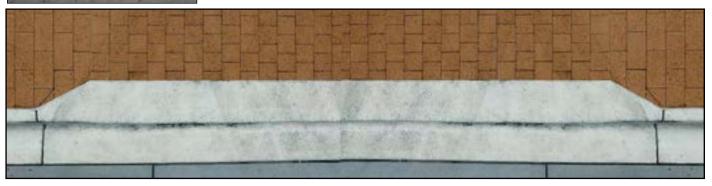
Colour to match adjacent footpath.

Parex Streetscape System mortar bed and joining to manufacturer's specification.

6. All sign stems (50mm NB) shall be installed using V-Loc + wedge system (galvanised). Footpath pavement shall be neatly core drilled 200mm DIA.

NUCL7. All open joints shall be sealed80 x 115 x 230mm7. All open joints shall be sealedSTRETCHERBONDwith Bostik "Seal 'N' Flex 1" inHIGHLIGHT PAVINGaccordance with the manufacturer's60 x 200 x 400mm PRECASTrecommendations - this includesCONCRETE PAVERSboundaries, back of kerb and lintels,
utility pits, construction joints etc

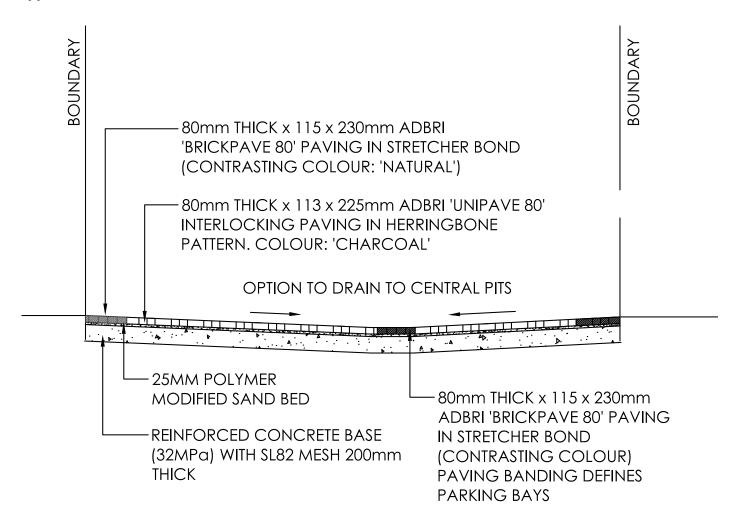




Interlocking concrete pavers

Driveway treatment

Typical shared zone section



Notes

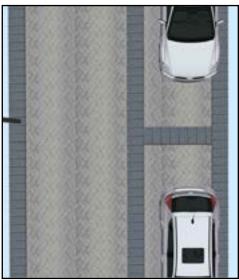
1. 225 x 113 x 80mm 'Charcoal' (dark grey) coloured interlocking concrete pavers with standard finish.

2. To be laid in herringbone 45 degrees pattern on a concrete base to prevent rutting.

3. Parking bays to be marked out in highlight colour paver 'Natural' 225 x 112 x 80mm.

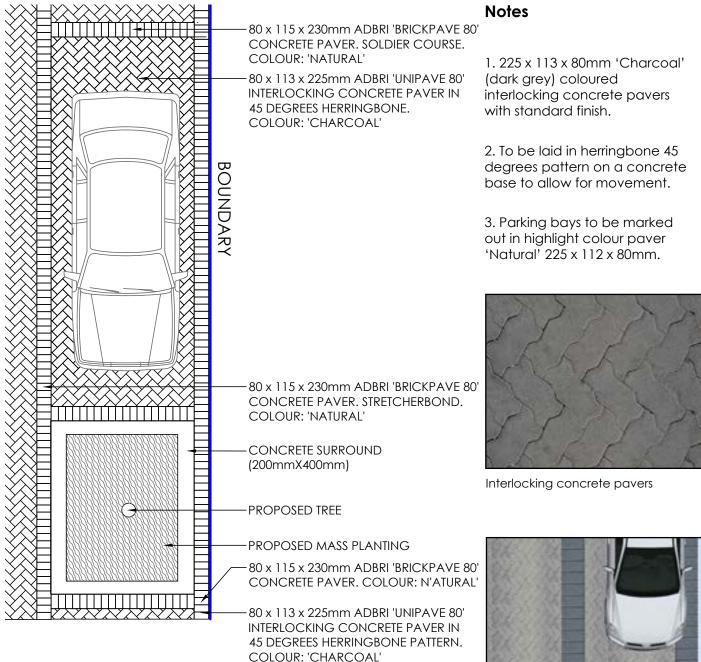


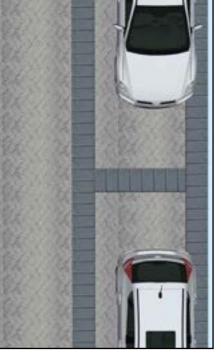
Interlocking concrete pavers



Shared Zone treatment

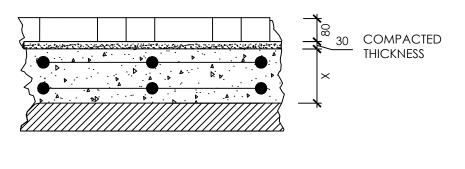
Typical parking demarcation in pavers - shared zone only





Shared Zone treatment

Typical road pavers interlocking including concrete base



Notes

1. 'X' Is to be 250mm for bus bays and 200mm for driveways, reinforced with SL82 reinforcement top and bottom.

2. Interlocking pavers to be 'charcoal' colour. Highlight colour shall be 'Natural' 'Brickpave 80'.

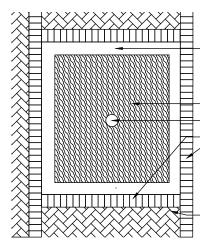


NOM. 30mm SAND BEDDING (COARSE PAVING SAND)

REINFORCED CONCRETE SUB-BASE WITH SL82 MESH

🖉 SUBGRADE

Typical tree pit at grade in shared zone - plan and section



-CONCRETE SURROUNDS (200mm X 400mm)

-PROPOSED MASS PLANTING -PROPOSED TREE

>80mm THICK x 115 x 230mm 'ADBRI BRICKPAVE 80' PAVING COLOUR: 'NATURAL'

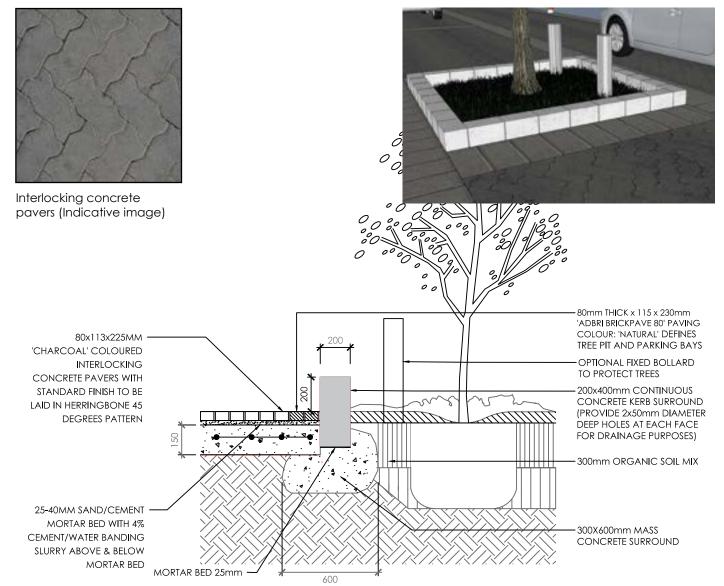
80mm THICK x 113 x 225mm 'ADBRI UNIPAVE 80' INTERLOCKING PAVING IN HERRINGBONE PATTERN. COLOUR: 'CHARCOAL'

Notes

1. 225 x 113 x 80mm 'Charcoal' (dark grey) coloured interlocking concrete pavers with standard finish. To be laid on a rigid base to prevent rutting. Laid in 45 degrees herringbone pattern.

2. Highlight paver 'Brickpave 80' 'Natural' defines edge of tree pit and parking bays.

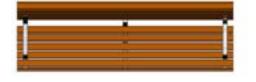
3. Optional fixed bollards protect trees.



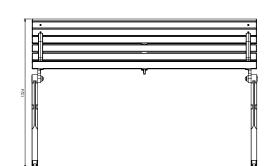
Typical seating with back











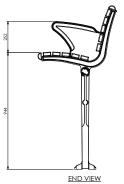
ISOMETRIC

PLANK O/

PLAN VIEW



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Notes

1. Timber battens with hidden fixings.

2. Galvanised or powdercoated finish to supports and frame. Aluminium arm rests.

3. Curved form.

4. Seat with backrests and arm rests.

5. Three person seats. Approximately 2000mm long.

6. Seats are to be subsurface fixed where possible.

141 Public Domain Style Manual and Design Codes

Typical bench



Notes

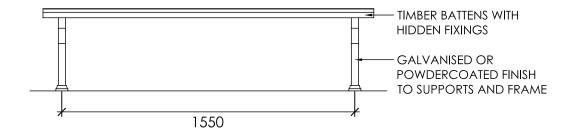
1. Timber battens with hidden fixings.

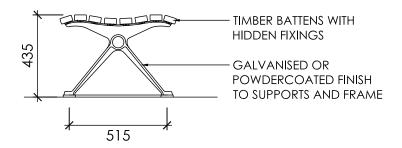
2. Galvanised or powdercoated finish to supports and frame. Aluminium arm rests.

3. Curved form.

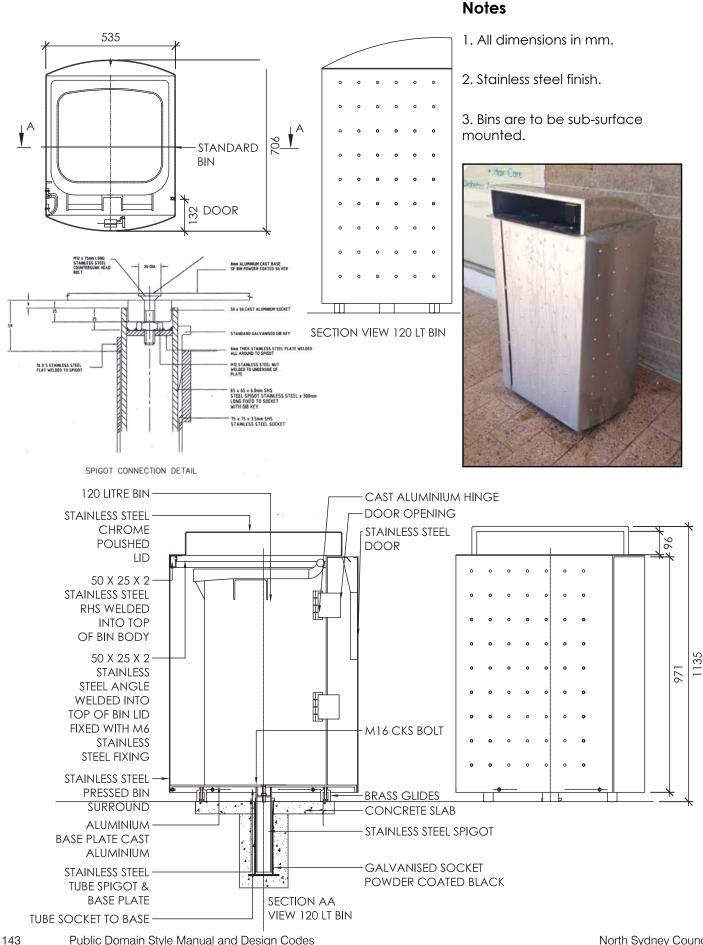
4. Three person bench. Approximately 1800mm long.

6. Benches are to be subsurface fixed where possible.



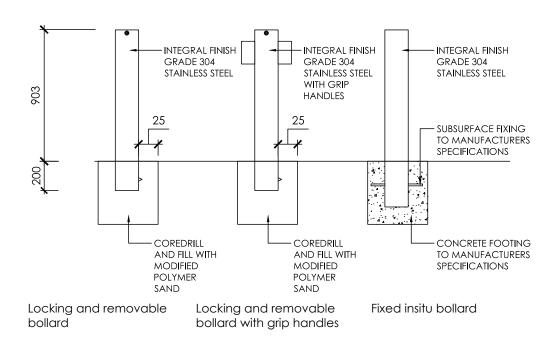


Typical metal bin installation detail



Public Domain Style Manual and Design Codes

Typical 125mm and 150mm bollard - fixed and removable



Notes

1. Integral finish grade 304 stainless steel.

2. Bollards are to be subsurface fixed.

3. Finish: Linished.

4. Optional reflective tape.



Typical parking meter



Parking meter

144

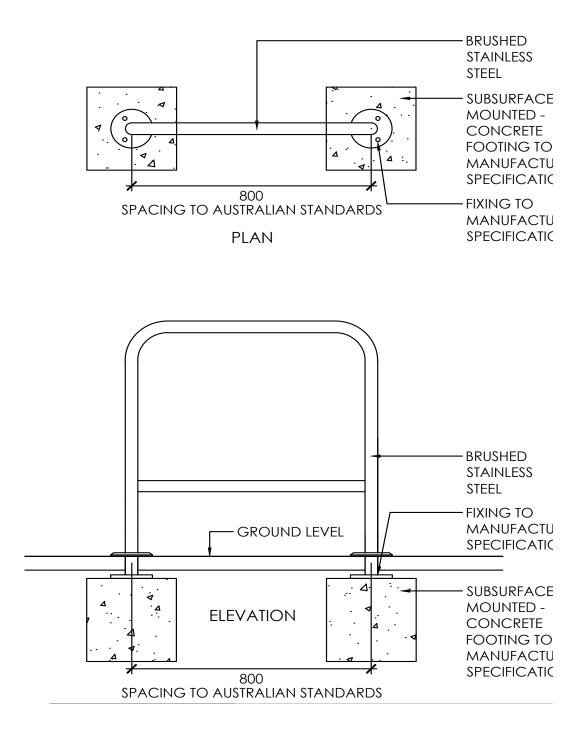
Notes

1. Parking meter 1.2m high

2. Situated 600mm from back of kerb

3. Where finished footpath surface levels do not match existing, contact Council's parking meter services division for further details about footing requirements and repositioning of meter stem. Locking and removable bollard / Fixed insitu bollard (With optional grip handles)

Typical bicycle parking



Notes

1. Subsurface mounted where possible.

2. Brushed stainless steel (brushed finish).

3. Ideally bike racks shall be located in areas where footpaths are widened. Bike racks should also be located where there is a change in transport type - for instance at ferry terminals, bus stops and train stations. They should also be located along cycleways and at cycle destinations.



Stainless steel bike racks

Typical bus shelter



Notes

1. Existing bus shelters to remain in village areas.

2. Seating to be updated to match current manual.

3. Bus shelter to incorporate advertising material and information panels.

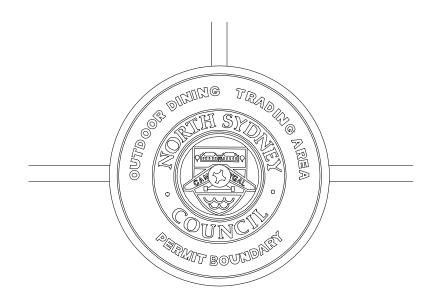
4. Size to vary to suit location and demand.

Existing bus stop - Neutral Bay



Existing bus stop - Cammeray

Typical alfresco demarcation line



Notes

1. Alfresco demarcation plaques are to be nailed to the pavement along the extent of licenced outdoor dining trading area.

2. Plaques are to be nailed into joints between pavers if possible.

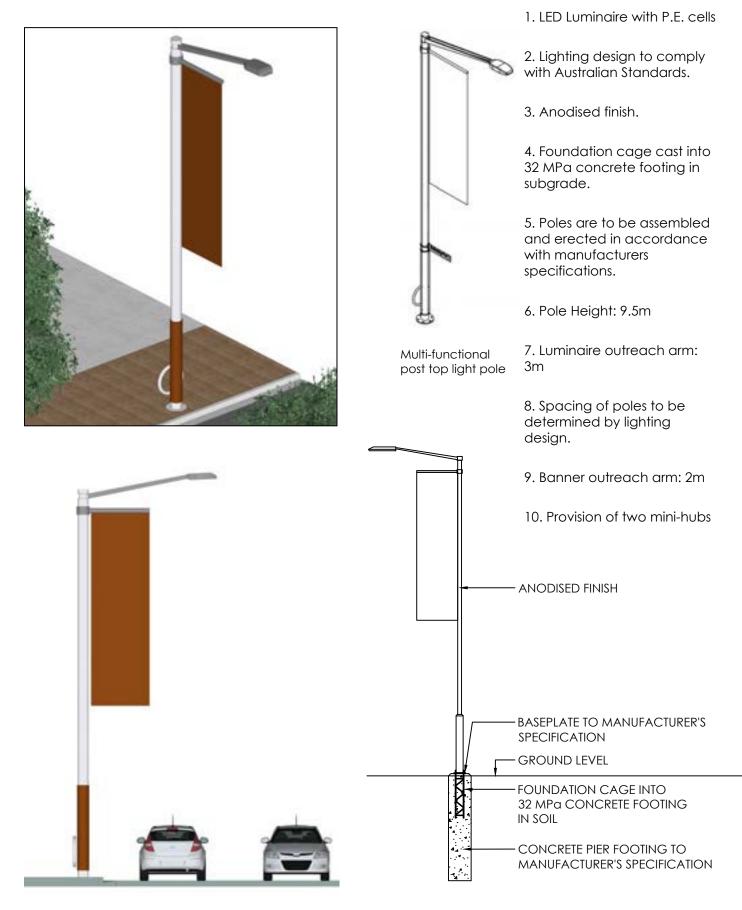
3. Plaques are to be located in a consistent line at an interval appropriate to the scale of the space.

4. Plaques are to be supplied by council and are to have the North Sydney logo.

5. Plaques are brass and are epoxy fixed along with a central pin.



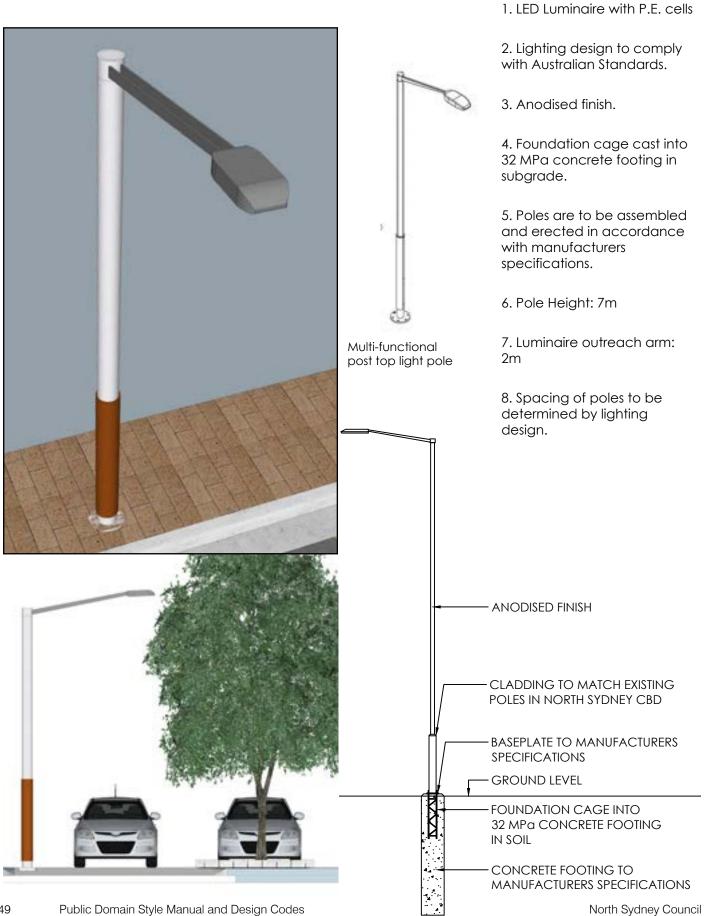
Typical post top light (Main Street)



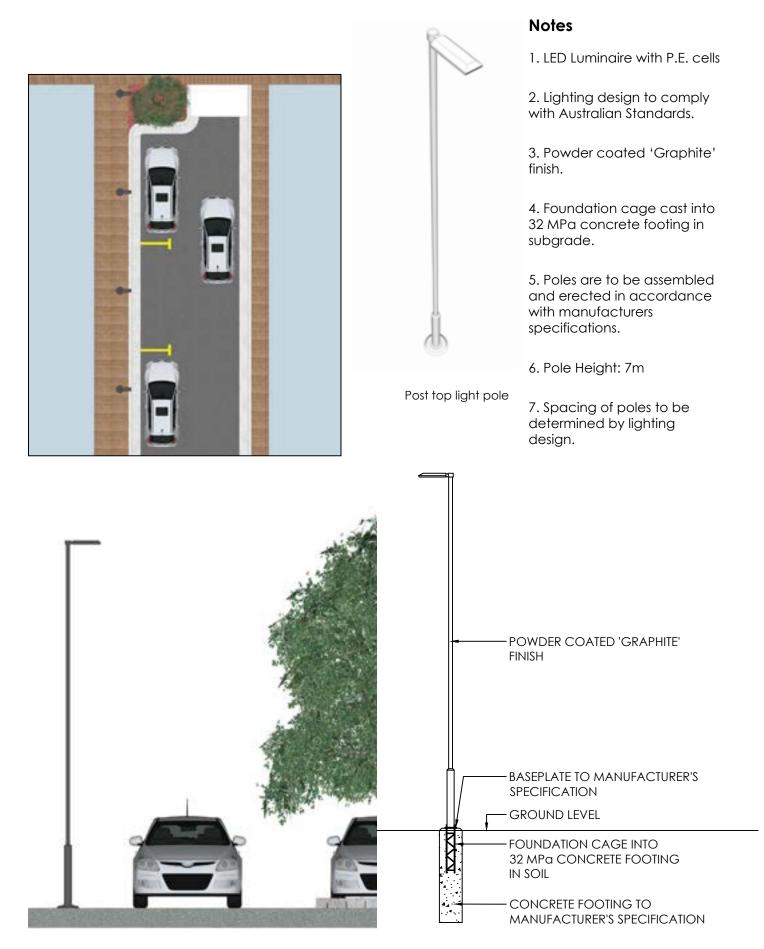
Notes

Typical post top light - default option 1 (Laneways and shared zones)

Notes



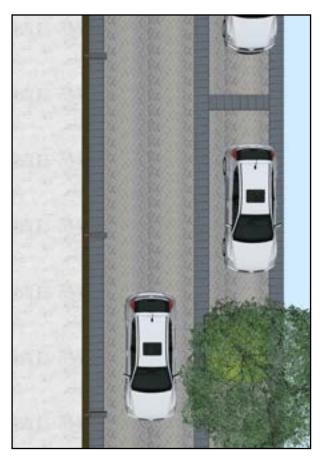
Typical post top light - option 2 (Laneways and shared zones)



05 Village Centres and Activity Strips

Furniture and Fixtures

Typical wall mounted light (Laneways and shared zones)



Notes

1. A consistent light colour warmth across fittings.

2. A consistent palette of light fittings for different applications.

3. Powdercoated 'Graphite'.

4. Lead mains supply cable through the cable entry of the mounting plate.

5. Fix the mounting plate with enclosed or any other suitable fixing material onto the mounting surface.



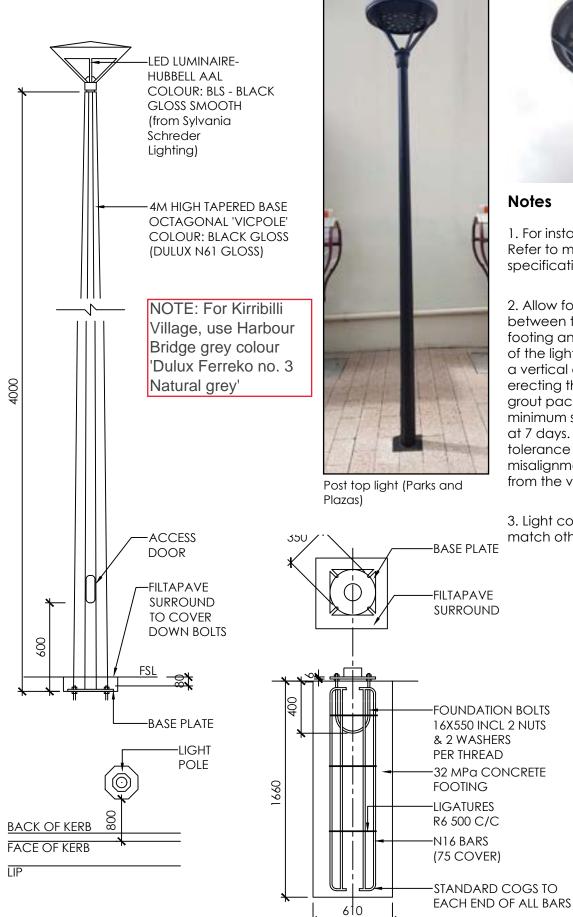
POWDER COATED 'GRAPHITE' FINISH

Wall mounted light

FIX MOUNTING PLATE -WITH ENCLOSED OR ANY OTHER SUITABLE FIXING MATERIAL ONTO THE WALL



Typical octagonal light pole (Public plazas and spaces)





Notes

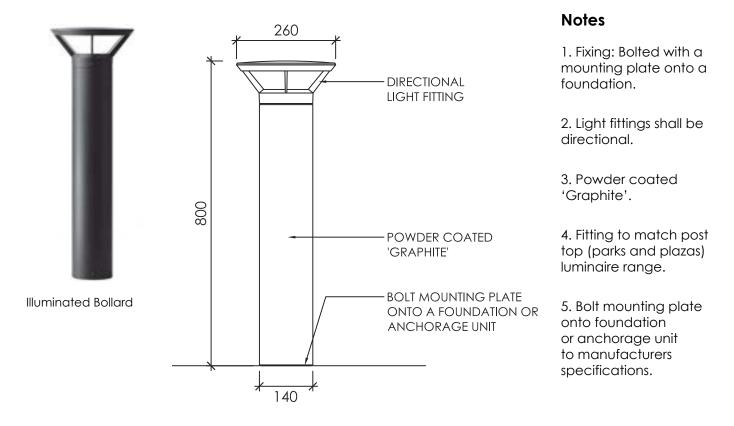
1. For installation detail. Refer to manufacturer's specification.

2. Allow for grout packing between the concrete footing and the base plate of the light pole to achieve a vertical alignment when erecting the pole. The grout pack shall have a minimum strength of 32MPa at 7 days. The maximum tolerance for vertical misalignment will be 30mm from the vertical.

3. Light colour warmth to match other fittings.

North Sydney Council

Typical illuminated bollard





Typical handrail lighting



Notes

1. Lighting to be housed within a stainless steel handrail.

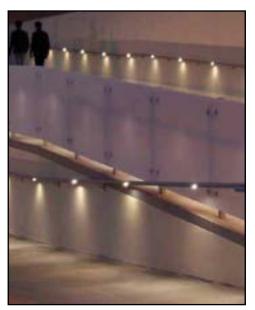
2. Point source lighting at a regular interval directed to the adjacent path of travel.

3. Light fittings to be easy to replace over time and to not be on a single circuit.

4. Light fitting must not protrude from handrail.

5. Stainless steel fixture.

6. Lighting to be installed as per specification from Planet Lighting.



Indicative handrail lighting

Typical modified RMS Pedestrian Fences - barriers



Planting adjacent to fence line



Suburb logo in fence (Crows Nest)



Pedestrian barrier (Cammeray)

Notes

- 1. North Sydney standard pedestrian barrier.
- 2. Suburb logo to be incorporated in village pedestrian fences.
- 3. Painted to match existing.

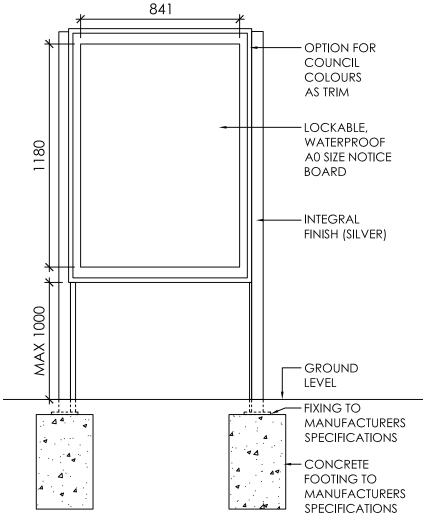


Suburb logo in fence (Neutral Bay)

Typical community notice board - free standing



Indicative illustration of free standing community noticeboard



Notes

1. Integral finish (silver) to frame.

2. Option for council colours as a trim.

3. Lockable.

4. Waterproof.

5. Internal size A0 (1180 x 841mm).

6. Noticeboard - portrait orientation.

7. Base of noticeboard maximum 1m from ground level.

8. Weather proof seals.

9. Stainless steel hinges incorporated into the swing door.

10. Manual or gas struts door stays.

11. 3mm poly carbonate or acrylic cover.

12. Optional anti-graffiti film applied to cover.

13. Sign frame finishes range from anodised matt silver to standard powder coat colours.

Typical community noticeboard - wall mounted



Indicative illustration of wall mounted noticeboard in village bus stop (portrait)



Example of A0 noticeboard (landscape)

Notes

1. Integral finish (silver) to frame.

2. Option for council colours as a trim.

3. Lockable.

4. Waterproof.

5. Internal size A0 (1180 x 841mm).

6. Noticeboard - portrait orientation.

7. Base of noticeboard maximum 1m from ground level.

8. Wall mounted.

9. Weather proof seals.

10. Stainless steel hinges incorporated into the swing door.

11. Manual or gas struts door stays.

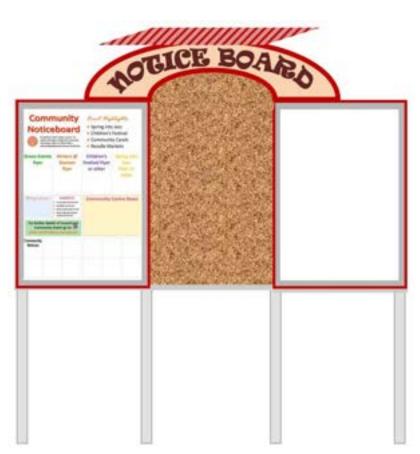
12. All fixings to be concealed.

12. 3mm poly carbonate or acrylic cover.

13. Optional anti-graffiti film applied to cover.

14. Sign frame finishes range from anodised matt silver to standard powder coat colours.

Typical community notice board - free standing open



Indicative illustration of free standing open community noticeboard

Notes

1. Integral finish (silver) to frame.

2. Option for council colours as a trim.

3. Lockable.

4. Waterproof.

5. Internal size A0 (1180 x 841mm).

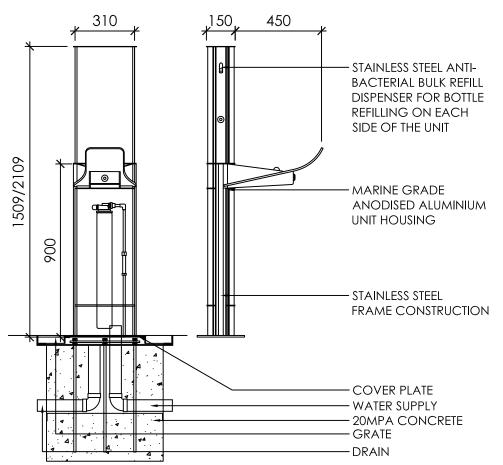
6. Noticeboard - portrait orientation.

7. Base of noticeboard maximum 1m from ground level.

8. Open cork board in the middle. A0 format.

9. Awning over open area.

Typical bottle refill station with drinking fountain





Bottle refilling station with drinking fountain

Bottle refilling station with drinking fountain

Notes

1. Wheelchair accessible drinking fountain.

2. 1500mm high refill station.

3. Stainless steel bulk refill dispenser for bottle refilling each side of the unit.

4. Stainless steel frame construction.

5. Marine grade anodised aluminium unit housing.

6. Optional filtered water unit.

7. Multiple bottle refill points.

8. Excavate a hole 440 x 730 x 500mm.

9. Footing cage and drainage tray installed with the top of the drainage tray flush with ground level.

10. Connect plumbing for drainage and water supply.



Indicative view: Waters Road, Neutral Bay



Crows Nest

5.15 Materials palette

(Approved equal alternative product may also be used)

VILLAGE CENTRES AND	VILLAGE CENTRES AND ACTIVITY STRIPS MATERIALS PALETTE				
ITEM	MAIN STREET	LANEWAY	SHARED ZONE		
FOOTPATH AND ROAD	FOOTPATH AND ROAD WORKS DRAWINGS				
KERB AND GUTTER	Material:	Material:	Material:		
	Concrete	Concrete	Concrete. If kerbing is		
	Finish:	Finish:	approved within a shared zone		
	Finished with a steel trowel	Finished with a steel trowel	Finish:		
			Finished with a steel trowel		
ITEM	MAIN STREET	LANEWAY	SHARED ZONE		
PAVING - FOOTPATH	Category 1 Paving: All areas except Crows Nest Village				
	Material:				
	Precast concrete unit paver				
	Finish:				
	Honed				
	Size:				
	Paving A:				
	60 x 200 x 400mm				
	Paving B:				
	60 x 200 x 300mm				
	Paving C:				
	60 x 200 x 200mm				
	Paving D:				
	60 x 200 x 100mm				
	Pattern:				
	Butt jointed, Stretcherbond				
	Colour:				
	Typ 1: PPX:540:35.D				
	Typ 2: PPX:1837:35 D Base:				
	Rigid base				
	Supplier:				
	Equal or equivalent to Pebblecrete				
	Paver sealant:				
	Dry Treat Stain Proof with Intensifia and wet look sealant				

PAVING - FOOTPATH	Category 2 Paving:	Material:	Not Applicable
	Crows Nest Only	Precast concrete unit paver	
	Material:	Finish:	
	Precast concrete unit	Honed	
	paver	Size:	
	Finish:	60 x 200 x 400mm	
	Honed	Pattern:	
	Size:	Butt jointed, Stretcherbond	
	60 x 200 x 400mm	Colour:	
	Pattern:	PPX:540:35.D	
	Butt jointed, Stretcherbond	Base:	
	Colour:	Rigid base	
	PPX:540:35.D	Supplier:	
	Base:	Equal or equivalent to	
	Rigid base	Pebblecrete	
	Supplier:	Paver sealant:	
	Equal or equivalent to Pebblecrete	Dry Treat Stain Proof with Intensifia and wet look	
	Paver sealant:	sealant	
	Dry Treat Stain Proof with Intensifia and wet look sealant		

05 Village Centres and Activity Strips

ITEM	MAIN STREET	LANEWAY	SHARED ZONE			
FOOTPATH AND ROAD	FOOTPATH AND ROAD WORKS DRAWINGS / PAVING DRAWINGS / LANDSCAPE DRAWINGS					
FOOTPATH AND ROAD PAVING - VEHICULAR CROSS OVER / SHARED ZONE ROAD PAVING	Material: Precast concrete unit paver Finish: Honed Size: 80 x 200 x 200mm Pattern: Butt jointed, Stretcherbond Colour:	DRAWINGS / LANDSCAPE DR Material: Precast concrete unit paver Finish: Honed Size: 80 x 200 x 200mm Pattern: Butt jointed, Stretcherbond Colour: PPX:540:35.D	AWINGS Material: Precast concrete unit paver Finish: Honed Size: 80 x 200 x 200mm Pattern: Butt jointed, Stretcherbond Colour:			
	PPX:540:35 D (Type 1 Zones) PPX:1837:35 D (Type 2 Zones) Base: Rigid base Mortar: Parex Streetscape System mortar bed and joining to manufacturer's specification Supplier: Equal or equivalent to Pebblecrete Paver sealant: Dry Treat Stain Proof with Intensifia and wet look sealant	Base: Rigid base Mortar: Parex Streetscape System mortar bed and joining to manufacturer's specification Supplier: Equal or equivalent to Pebblecrete Paver sealant: Dry Treat Stain Proof with Intensifia and wet look sealant	PPX:540:35.D Base: Rigid base Mortar: Parex Streetscape System mortar bed and joining to manufacturer's specification Supplier: Equal or equivalent to Pebblecrete Paver sealant: Dry Treat Stain Proof with Intensifia and wet look sealant			
PAVING - FOOTPATH - TACTILES	Pathfinder Stainless Steel TGSI with Carborundum insert to meet AS 1428 Size: Individual tactile studs Pattern: As per AS1428.4.1 Colour: Black top silver sides Fixing: Drill and pressure fit or drill and glue Equal or equivalent to DTAC tactile terraced black top (Stainless Steel (316)	Not Applicable	Not Applicable			

ITEM	MAIN STREET	LANEWAY	SHARED ZONE		
FOOTPATH AND ROAD	OOTPATH AND ROAD WORKS DRAWINGS / PAVING DRAWINGS				
PAVING - RECYCLED RUBBER SURFACING AT HOTEL LOADING ZONES	Material: EPDM rubber surfacing Base: 50mm crushed concrete aggregate. Colour Mixture: 40% Brown, 40% Grey, 15% Beige and 5% Black Base: Rigid base - Reinforced concrete slab	Material: EPDM rubber surfacing Base: 50mm crushed concrete aggregate. Colour Mixture: 40% Brown, 40% Grey, 15% Beige and 5% Black Base: Rigid base - Reinforced concrete slab	Not Applicable		
KERB RAMPS	Material: Precast concrete unit paver Finish: Honed Size: 60 x 200 x 400mm Pattern: Butt jointed, Stretcherbond Colour: PPX:1837:35 D (Type 2) Base: Rigid Base Equal or equivalent to Pebblecrete	Material: Precast concrete unit paver Finish: Honed Size: 60 x 200 x 400mm Pattern: Butt jointed, Stretcherbond Colour: PPX:540:35.D Base: Rigid Base Equal or equivalent to Pebblecrete	Not Applicable		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
LANDSCAPE DRAWING	GS	•	•
TREE PIT BASE TREATMENTS -	Existing tree site with porous rubber surround.	Not Applicable	Not Applicable
EXISTING TREE	Material:		
	FiltaPave porous rubber surround		
	Colour:		
	Cinnamon (Crows Nest)		
	Charcoal (All other areas)		
	Material:		
	Precast concrete unit pavers		
	Finish:		
	Honed		
	Size:		
	60 x 200 x 400mm		
	Colour:		
	PPX:540:35 D (Type 1)		
	PPX:1837:35 D (Type 2)		
	Pattern:		
	Refer to detail		
	Base: Rigid base		
	Equal or equivalent to Pebblecrete		
	Edge:		
	Steel edge with root barrier		
PARKING DRAWINGS	•	ł	•
PARKING METERS / PARKING LINES	North Sydney standard electronic parking meter Yellow line markings	North Sydney standard electronic parking meter Yellow line markings	North Sydney standard electronic parking meter highlight paving line markings.
			Highlight paver:
			Concrete paver
			Finish:
			Standard finish
			Size:
			80 x 112 x 225mm
			Highlight colour:
			Steel (light grey)
			Base:
			Rigid base
			Pattern: Stratcharband / Saldiar
			Stretcherbond / Soldier course
			Equal or equivalent to Adbri Brickpave 80.

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
PAVING DRAWINGS	•	•	•
TREE PIT BASE TREATMENTS - PROPOSED TREE	Tree pit with paving banding. Tree pit min. 1m x1.6m tree pit.	Not applicble	Tree pit in road level concrete kerb blister surrounds - refer to detail
	Material:		on page 151
	FiltaPave porous rubber surround		
	Colour:		
	Cinnamon (Crows Nest)		
	Charcoal (All other areas)		
	Material:		
	Precast concrete unit pavers		
	Finish:		
	Honed		
	Size:		
	60 x 200 x 400mm		
	Colour:		
	PPX:540:35.D (Type 1)		
	PPX:1837:35.D (Type 2)		
	Pattern:		
	Refer to detail		
	Base:		
	Rigid base		
	Equal or equivalent to Pebblecrete		
	Edge:		
	Steel edge with root barrier		
FIXTURES - FURNITURE			
SEATING	Seat with backing	Not Applicable	Not Applicable
	Approx. 2000mm long with armrest		
	Equal or equivalent to Stoddart Part No: SPTP- SSE10-T3-SS-AR2-2000.		
	Bench seat		
	Approx. 1800mm long.		
	Fixing:		
	Bench is to be subsurface fixed.		
	Equal or equivalent to 'Bench seat' by SFA.		

RUBBISH BINS	North Sydney standard bin	Not Applicable	Not Applicable
	Fixing:		
	Bins are to be subsurface fixed.		
	Spigot and socket mounted		
	Equal or equivalent bin designed by lan Dryden of Dryden Crute Design Victoria/JC Brown.		
ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
125mm or 150mm	(Fixed or removable)	Not Applicable	(Removable only)
BOLLARDS - FIXED INSITU AND REMOVEABLE	900mm high stainless steel bollard		900mm high stainless steel bollard
	Finish:		Finish:
	Linished		Linished
	Removable Bollard:		Fixed Bollard
	Socket and cap for when bollard is removed		Removable Bollard:
	Fixed Bollard		Socket and cap for when bollard is removed
	Fixing:		125mm or 150mm
	Bollards are to be subsurface fixed with mass concrete footings.		equal or equivalent to Leda Slimline bollard (removable (Locking and removable))
	125mm or 150mm equal or equivalent to Leda Slimline bollard (Fixed or removable (Locking and removable))		
BICYCLE RACKS	Material:	Material:	Material:
	Stainless steel	Stainless steel	Stainless steel
	Fixing:	Fixing:	Fixing:
	Bicycle stands are to be subsurface fixed with mass concrete footings.	Bicycle stands are to be subsurface fixed with mass concrete footings.	Bicycle stands are to be subsurface fixed with mass concrete footings.
	Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage	Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage	Equal or equivalent to the GM850 (modified to include bottom rail) by Bikestorage
BUS SHELTER	Retain existing bus shelters	Not Applicable	Not Applicable
PAVING - ALFRESCO DINING AREAS	Outdoor dining - trading area permit boundary markers with North Sydney logo	Not Applicable	Not Applicable
	Material:		
	Brass		
	Fixing:		
	Epoxy fix with central pin		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
STREET LIGHTING	Post Top LED with node	Post Top LED with node	Post Top LED with node
	Luminaire: IZYLUM 3 5304	Luminaire: IZYLUM 3 5307	Luminaire:
	80	40 LH351C 550mA	IZYLUM 3 5307 40 LH351C 550mA
	Wattage: 107W LED or as per commissioned lighting design	Wattage: 68W LED or as per commissioned lighting design	Wattage: 68W LED or as per commissioned lighting design
	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent
	Multifunctional Pole	Multifunctional Pole Steel	Multifunctional Pole Steel
	Steel core Steel core – 220mm DIA	core – 168mm DIA Colour: Anodised	core – 168mm DIA
	Colour: Anodised aluminium extrusion	aluminium extrusion	Colour: Anodised aluminium extrusion
	Cladding: Rimex	Cladding: Rimex Height:	Cladding: Rimex Height:
	Height: 9.5m with single	7m	7m
	3.0m light outreach arm Banner arm: 2m outreach	Assembly: All fixtures (caps, grub screws, rag boottingstats (care etc)	Assembly: All fixtures (caps, grub screws, rag
	Assembly: All fixtures	manufacturer's	bolt system/cage etc)
	(caps, grub screws, rag boothingtens/coarge etc)	specification North Sydney Hub Street	Footing: As per manufacturers specification
	manufacturer's specification	Pole 7m (HUB-HUB- NSP-SL70) or approved	North Sydney Hub Street
	North Sydney Hub Street Pole 9.5m (HUB-NSP- SL95-S3) or approved equivalent	equivalent	Pole 7m (HUB-NSP-SL70) or approved equivalent
ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
PEDESTRIAN LIGHTING	Post Top LED with node	Post Top LED with node	Post Top LED with node
- (OPTION 1) PREFERRED OPTION UNLESS APPROVED	Luminaire: IZYLUM 3 5307 40 LH351C 550mA	Luminaire: IZYLUM 3 5307 40 LH351C 550mA	Luminaire: IZYLUM 3 5307 40 LH351C 550mA
OTHERWISE BY NORTH SYDNEY COUNCIL)	Wattage: 68W or as per commissioned lighting design	Wattage: 68W or as per commissioned lighting design	Wattage: 68W or as per commissioned lighting design
	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent	Sylvania Schreder Lighting or approved equivalent
	Multifunctional Pole Steel	Multifunctional Pole Steel	Multifunctional Pole Steel
	core – 168mm DIA	core – 168mm DIA	core – 168mm DIA
	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion	Colour: Anodised aluminium extrusion
	Height: 5m	Height: 5m	Height: 5m
	Assembly: All fixtures (caps, grub screws, rag	Assembly: All fixtures (caps, grub screws, rag	Assembly: All fixtures (caps, grub screws, rag
	bolt system/cage etc) Footing: As per manufacturer s specification	bolt system/cage etc) Footing: As per manufacturers specification	bolt system/cage etc) Footing: As per manufacturer s specification
	North Sydney Hub Street Pole 7m (HUB-NSP-PL50) or approved equivalent	North Sydney Hub Street Pole 5m (HUB-NSP-PL50) or approved equivalent	North Sydney Hub Street Pole 5m (HUB-NSP-PL50) or approved equivalent

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PEDESTRIAN LIGHTING - (Option 2)	Post top LED luminaire on octagonal Vicpole	Post top LED luminaire on octagonal Vicpole	Post top LED luminaire on octagonal Vicpole
POST TOP LIGHT	Colour:	Colour:	Colour:
	Refer to drawings	Refer to drawing	Refer to drawings
	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.	Equal or equivalent to Hubbell AAL Largent LED Post top luminaire.
ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE			
PEDESTRIAN LIGHTING	Not Applicable	Wall luminaire LED	Wall luminaire LED
- WALL MOUNTED		Finish:	Finish:
(Laneways and		Powdercoated	Powdercoated
Shared Zones)		Colour:	Colour:
		Graphite	Graphite
		Equal or equivalent to BEGA LED Wall luminaire.	Equal or equivalent to BEGA LED Wall luminaire.
PEDESTRIAN LIGHTING - POST TOP LIGHT	Post top luminaire LED	Not Applicable	Not Applicable
(Park / Plaza	Finish:		
locations)	Powdercoated		
	Colour:		
	Refer to drawings		
	Light fittings shall be directional.		
	Equal or equivalent to LED Luminaire-Hubbell AAL Post top luminaire (4M high tapered base octagonal 'Vicpole').		
PEDESTRIAN LIGHTING - ILLUMINATED	LED 800mm high illuminated bollard	LED 800mm high illuminated bollard	LED 800mm high illuminated bollard
BOLLARD	Finish:	Finish:	Finish:
	Powdercoated	Powdercoated	Powdercoated
	Colour:	Colour:	Colour:
	Graphite	Graphite	Graphite
	Fixing:	Fixing:	Fixing:
	Bollards are bolted with a mounting plate onto a foundation.	Bollards are bolted with a mounting plate onto a foundation.	Bollards are bolted with a mounting plate onto a foundation.
	Light fittings shall be directional.	Light fittings shall be directional.	Light fittings shall be directional.
	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED	Equal or equivalent to BEGA Illuminated bollard. 800mm high. LED
PEDESTRIAN LIGHTING - HANDRAILS	Integrated handrail lighting system	Not Applicable	Not Applicable
	Lighting to be housed within a stainless steel handrail.		
	Point source lighting at a regular interval.		
	Equal or equivalent to Planet Lighting HLS GEN4 LED integrated handrail lighting system.		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE	•		
MISCELLANEOUS COMMUNITY	Colour:	Not Applicable	Not Applicable
NOTICE BOARDS Free standing community notice	Silver frame with option for council colours to be incorporated as a trim		
board / Outdoor	Key features:		
wall mounted notice board/ Free standing	Lockable Waterproof		
open community notice board	A0 (1180 x 841mm) internal dimension		
	Portrait orientation		
	Option for anti-graffiti film on notice board		
	Poly carbonate or acrylic cover		
	Notice boards to be maximum 1m above ground level at the base when freestanding		
	A0 sized open cork board in the middle of open community notice boards		
	Simple awning to open community notice boards		
	Equal or equivalent to HD1 Harsh Duty Outdoor Lockable Notice Board by Arrow Alpha		
	Equal or equivalent to MD6 Keyless Secure Notice Board by Arrow Alpha		
	Equal or equivalent to HD1 Harsh Duty Outdoor Lockable Notice Board by Arrow Alpha		

ITEM	MAIN STREET	LANEWAY	SHARED ZONE
FIXTURES - FURNITURE	<u>.</u>	<u>-</u>	
MISCELLANEOUS FIXTURES -FURNITURE	1500mm high refill station with drinking fountain	Not Applicable	Not Applicable
Bottle refill station with drinking fountain	Stainless steel bulk refill dispenser for bottle refilling each side of the unit		
	Marine grade anodised aluminium unit housing		
	Optional filtered water unit		
	Multiple bottle refill points		
	Changeable panels		
	Stainless steel drinking bowl		
	Stainless steel frame construction		
	Fixing:		
	Stainless steel base plate with drainage pit		
	Equal or equivalent to Aquafill product Type C 1500mm high refill station with drinking fountain by Arrow-Alpha Industries		
BANNER POLE	Rota-Top Euro Banner Pole	Not Applicable	Not Applicable
	Powdercoat finish		
	By Abel Flags		
PEDESTRIAN FENCES			
PEDESTRIAN BARRIERS	North Sydney standard pedestrian barrier.	Not Applicable	Not Applicable
MISCELLANEOUS			
SIGN POSTS	Sign Posts to have V-Lock g	rips	
	V-Locks to be supplied by council		
POWER POLES	Base of power poles to have	e 50x500x500mm FiltaPave su	rrounds
	Colour: Cinnamon		