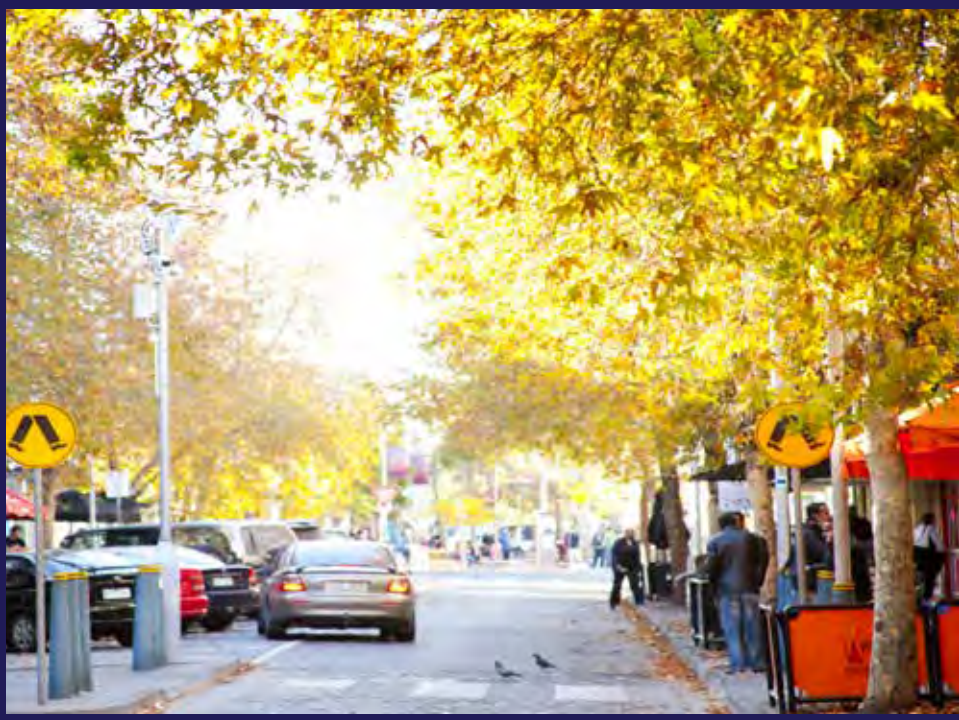
Maribyrnong
CITY COUNCIL

Maribyrnong

City Design Manual



Contents

City Design Manual V2
September 2017

Reference Documents

- Reference 1 MCC Standard Drawings (2015- 2016)
- Reference 2 MCC Interpretive Style Guidelines
- Reference 3 MCC Parks and Gardens Signage Manual

Section 1 Introduction

1.1 Introduction

The City Design Manual is intended to direct the installation and upgrade of street furniture, open space furniture and urban infrastructure within the City of Maribyrnong. The Manual guides the use of furnishings and materials for public works in streets, activity centres and open space within the municipality.

Consistent street furniture elements, urban treatments and open space furniture elements will apply across the majority of the public realm, whilst other specific elements will only be applicable in certain localities. For example Footscray Central Activities Area (CAA) and Yarraville Station Plaza have different furniture styles that relate to specific local character and design themes.

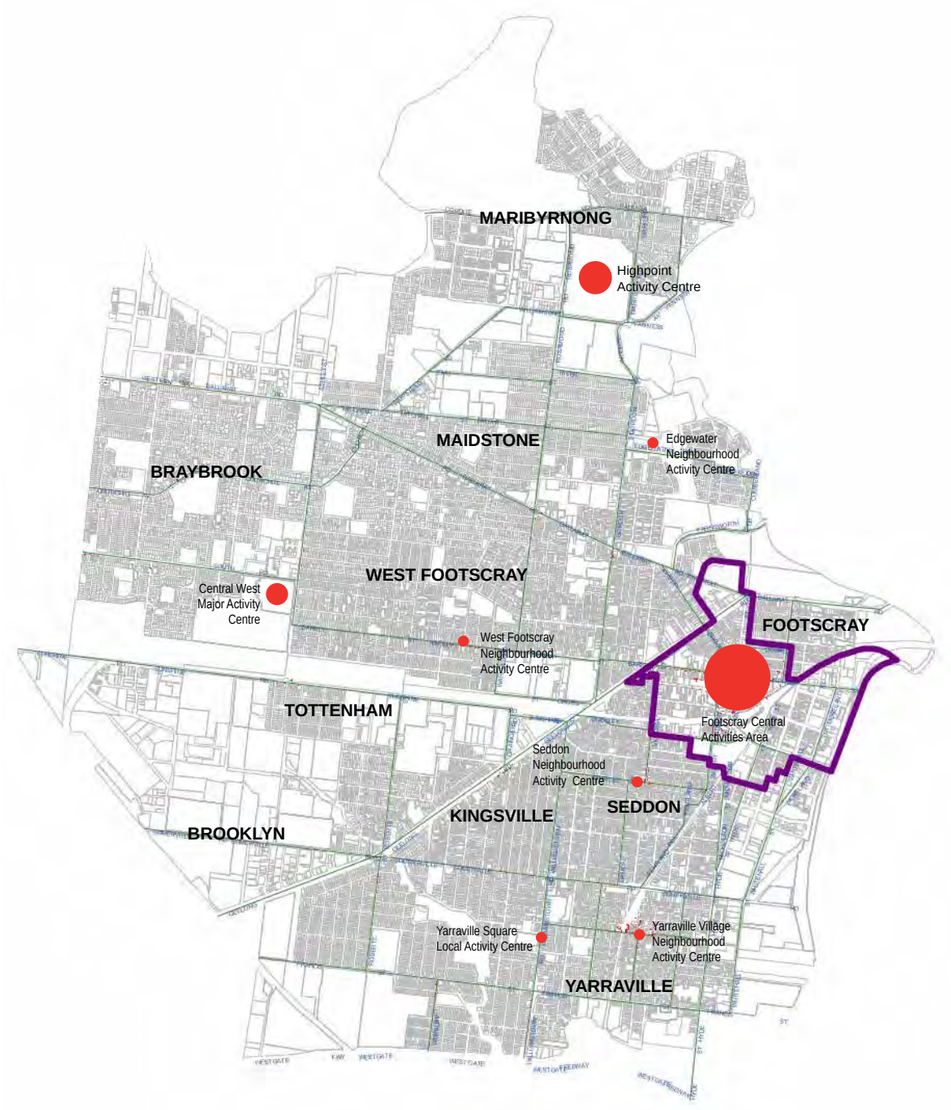


Figure 1. Overall Study Area

Footscray Central Activity Area

Footscray is the major activity centre in the municipality and is one of the seven Central Activity Areas (CAA) identified by the State Government (refer Figure 2 for extents).

Central Activity Centres provide:

• Significant CBD - type jobs and commercial services

• A strong and diverse retail sector

• Specialised goods and services drawing on a large regional catchment

• Significant opportunities for housing redevelopment in and around these centres

• High levels of accessibility for walking, cycling, public transport or car by being located at junctions in the Principal Public Transport Network.

• Vibrant centres of community activity with a range of public facilities.

At the local level, Footscray has undergone major renewal. Projects such as the redevelopment of Maddern Square, Nicholson Street Mall and Leeds Street have made significant improvements to the public realm and signify a major transformation of the centre. This work stems as recommendations from existing strategies undertaken by Council and the State Government. Some of the urban design treatments and elements implemented as part of these projects are proposed to form the basis for a high quality suite of streetscape elements for continued use in the Footscray Central Area. Additionally, Footscray's status as a 'Central Activity Area' has increased pressure on Council to plan for and provide streetscape treatments that encourage walking, cycling and public transport usage, as well as supporting the retail and residential growth of the municipality.

Previous Studies

The City Design Manual has considered and where relevant built on recommendations that have been made as part of previous studies and strategies such as:

- Local Planning Policy Framework (LPPF)
- Footscray Structure Plan (2014)
- Footscray City Edge Masterplan (2012)
- Footscray at Night Strategy (2011);
- Footscray Station Precinct: Planning and Urban Design Framework (2009);
- Footscray Station Precinct: Development Plan (2009);
- Footscray Transit City Access and Mobility Strategy (2008);
- Central West Major Activity Centre Structure Plan (2008);
- Access and Mobility Strategy (2008);
- West Footscray Urban Design Framework (2008);
- Footscray Wayfinding Strategy (2007);
- Greening Footscray (2007);
- Yarraville Village Urban Design & Traffic Management Strategy (2006);
- (re)Visioning Footscray (2005);
- Footscray Station Precinct Development Report (2005);
- Footscray Transit City and Principal Activity Centre Masterplan (2003);
- Footscray PAC Strategic Masterplan (2002);
- Street Furniture Strategy (2002);

Figure 2. Extent of the Footscray CAA in Purple

How To Use This Document

A range of street furniture and urban infrastructure elements are covered in the City Design Manual. The Manual is structured as follows:

Section 1 - Introduction

Provides the strategic context, background, aims and general principles for selection and installation.

Section 2 - Footscray Central Activities Area (CAA)

Includes a summary of the treatment strategy palette and technical details and associated information for each furniture element or treatment for the Footscray CAA.

Section 3 - Local Activity Centres and Wider Municipality

Includes a summary of the treatment strategy palette and technical details and associated information for each furniture element or treatment across Local Activity Centres and broader municipality.

Section 4 - Open Space

Includes a summary of the treatment strategy palette and technical details and associated information for each furniture element or treatment across publicly owned Open Space across the municipality.

The technical details include information on the urban furniture or elements as follows:

- Materials
- Finish
- Installation
- Construction Details
- Maintenance
- Recommended Use and Supplier
- Optional Extra

The supporting technical details, including specific construction details are categorised under the following numerical order:

000 Kerb & Pavement Treatments
100 Tactile Indicators
200 Seats
300 Bins
400 Bicycle Rails
500 Bollards, Fences & Drinking Fountains
600 Tree Surrounds
700 Signage
800 Structures
900 Lighting

Section 5 - Reference Documents

This section contains additional supporting information regarding the existing street furniture elements and urban treatments to assist in the implementation of the palette strategy.

1.1 Aims

The City Design Manual has been developed as a guide and reference for use by all Council Departments and consultants to assist in achieving the progressive and consistent upgrading of public realm treatments within the municipality. From a functional perspective, the Manual will provide a framework to improve the quality, consistency and efficient fit out of the public realm. From an “activation” perspective, the Manual will provide a guide to improve the vibrancy, image and appeal of the City.

The City Design Manual shall;

- Establish a consistent suite of public realm furniture and treatments that relate to the scale, character and intensity of use within the municipality and combine to create positive impressions of the City.
- Create a vibrant and appealing municipality through public realm furniture and treatments that align with the City’s character and neighbourhoods.
- Recognise significant elements such as those protected by Heritage Overlays.
- Aim to eliminate inappropriate and adhoc installations, inappropriate and / or dated furnishings.
- Provide a document that reflects a consensus across relevant Council units in terms of an agreed suite of urban furnishings and treatments.
- Provide a strategy that informs and provides a reference point for future decision making.
- Is considerate of maintenance, replacement and whole of life costs.

From a design and infrastructure planning perspective, the preparation of the City Design Manual and associated guidelines will have a number of strategic benefits including:

- Stream-lining of the furniture selection process;
- Greater asset management control;
- Easier and improved planning for maintenance regimes and resource allocation;
- Better recording of Council’s supply and installation procedures; and
- More consistent application of construction standards and implementation procedures.

Improved selection, installation and maintenance procedures will benefit public and private developments and streetscape projects within the municipality.

These are intended to be guidelines for general use throughout the municipality. Large urban spaces or public realm projects may vary from the standard and therefore warrant special treatments or elements that are particular to the site.

1.2 Design Principles & Considerations

This project offers the opportunity to upgrade public realm furniture and treatments to improve amenity, provide greater consistency and contribute to a more lively and active municipality. Key objectives and considerations in the development of the strategy include:

- Sustainability;
- Aesthetics, ergonomics and functionality;
- Ease of installation and replacement;
- Longevity of installation;
- Suitability for reuse;
- Durability against vandalism;
- Maintenance and whole of life costs; and
- Public safety and compliance with relevant Australian Standards.

Based on these objectives, the following design principles and considerations have been developed to assist in the selection of furniture and treatments within the municipality.

1.2.1 Appropriateness of existing street furniture

There is significant variety in the type and style of the existing public realm furniture across the municipality. Careful consideration needs to be given to what is used at present, whether those elements are suitable and what new or modified treatments are needed.

1.2.2 Appropriateness to the location

The Manual identifies the typical application of the various items of furniture or treatments so that it is clear where they are required and for what purposes, helping to avoid clutter, duplication or the misuse of elements.

1.2.3 Consistency

The use of selected furniture elements within the municipality is an important consideration and will help to unify the public realm. The design of some individual items (such as litter bin receptacles) has already been determined, however it is desirable that new items added to the range have complementary design features, materials or finishes. New furniture items should be simple and contemporary in design to reflect the design qualities, materials and architectural era that they are being manufactured in.

1.2.4 Heritage and Urban Design considerations

The City of Maribyrnong has a wide diversity of streetscapes, with some unique streetscapes, architectural and heritage elements specific only to small ‘villages’. Existing and authentic heritage public realm elements, such as bluestone kerb and channels and other elements of significance, should be preserved and retained. The use of non-original or mock heritage designs for elements should be avoided. New furniture should not dominate or compete with the existing character.

The siting and selection of many elements contained within the City Design Manual guidelines should be individually assessed with regard to heritage considerations and impacts. In particular the selection of furniture and treatments within the municipality should address Heritage Overlay Guidelines. The Heritage Overlay Guidelines, prepared by Heritage Victoria and the Heritage Council of Victoria, aim to encourage high quality conservation, alteration and development of Heritage Places. The Guidelines supplement but do not replace any local heritage guidelines produced by the City of Maribyrnong.

1.2.5 Colour and material

There is currently a wide range of painted furniture elements within the municipality. Most of these are dated elements. Where appropriate and practical, new furniture elements should be left non-painted. The use of stainless steel elements and durable non-painted finishes (such as hardwood timber or composite timber products) should be encouraged to improve durability and minimise maintenance requirements.

1.2.6 Function

Each item should be designed or detailed to achieve the fundamental outcome of being suitable for the intended purpose or application. The design and placement of furniture elements should also consider social behaviour, personal comfort and safety.

1.2.7 Sustainability

Considerations that reduce the ecological impact of furniture elements or urban treatments should be primary to the design and selection process. The design and choice of materials should consider the total impacts and benefits to the environment. This includes the environmental ethics and practices of suppliers; options for the use of recycled materials, plantation timbers, and low embodied energy materials in the production process; use of local and sustainable or plantation timbers; capacity to recycle materials at end of life; use of local suppliers or manufacturers for reduced transport costs etc. These factors should be considered at all levels of the process in order to minimise environmental degradation and wastage.

1.2.8 Design standards, public safety and disability access

The implementation of the City Design Manual will need to address all relevant standards or legislation to ensure that elements do not represent a hazard to either pedestrians or motorists.

1.3 Selection Policies

1.3.1 Australian Standards

The design, selection and placement of streetscape elements shall conform to relevant Australian Standards including but not limited to:

- AS/NZS 1158 (2010) Lighting for Roads and Public Spaces
- AS 1742.15—2007 Manual of uniform traffic control devices—Direction signs, information signs and route numbering.
- AS 1428 Design for access and mobility.
- AS 1428.1 Part 1: General requirements for access—New building work.
- AS 1428.2 Part 2: Enhanced and additional requirements—Buildings and facilities.
- AS 1428.3 Part 3: Requirements for children and adolescents with physical disabilities.
- AS 1428.4.1 Part 4.1: Means to assist the orientation of people with vision impairment—Tactile ground surface indicators.
- AS 1428.5 Part 5: Communication for people who are deaf or hearing impaired.
- AS 2890.3-1993 : Parking facilities - Bicycle parking facilities

1.3.2 Suitability

Furniture elements should be kept simple, contemporary in design and selected to be consistent with the related treatments or furniture elements. The rationalisation of the range of furniture elements will help to create a greater continuity and less clutter in the public realm. Some departures from the standard suite are acceptable for high profile projects (such as Nicholson Street Mall or Madden Square).

1.3.3 Life expectancy and durability

Elements should be selected and designed to consider issues of usage, durability and life expectancy. Highly durable materials may have a higher up front cost but this may be justified by an extended product life expectancy.

1.3.4 Maintenance

The design and material selection should consider maintenance factors including the ease of replacement of the entire unit, the replacements of parts, the capacity to remove graffiti and whether maintenance can be carried out in-situ or off site. Costs and frequency of recurring maintenance should be assessed at the selection phase. The costs of ongoing maintenance may warrant higher initial expenditure to reduce costs over the long term.

1.3.5 Cost

Given the pressures on Council for new assets and asset renewal, the cost effectiveness of furniture elements and public realm treatments is an important consideration. The expenditure on particular elements will vary according to the locality. High profile areas often warrant a special treatment or higher quality and more durable elements, hence the costs may be higher. Cost should be considered in relation to efficiency of manufacturing, production runs, availability and timing and delivery (i.e. the costs of some elements may be lower if ordered in larger quantities).

1.3.6 Supply

To ensure an efficient supply capacity it is preferable that furniture items be commercially available or able to be manufactured locally in a timely manner. Some customised items may be appropriate for high profile projects.

1.3.7 Installation

If furniture cannot be maintained in-situ, it should be installed to facilitate removal space for off site maintenance. Installation and footing details will need to consider a range of situations including varying surface finishes, gradients and sub-surface materials. If furniture is to be removed then any subsequent hazards must be minimised due to potential public liability issues.

1.3.8 Placement and distribution

The standards and rationale for the placement of furniture need to be considered to ensure the appropriate distribution of elements. For example, while there may be a standard notional spacing, the actual number of seats in a particular street may vary according to a range of factors such as the amount of pedestrian traffic, the presence of key facilities, path grades etc.

Note: 60 metre minimum spacing in high use pedestrian environments is adopted as a bench mark

1.3.9 Innovation and sustainability

The development of innovative and sustainable treatments and solutions should be encouraged within the further development of the City Design Manual. As such, new furniture elements and construction details should be prototyped, tested and proven to be successful prior to being adopted as a standard.

1.3.10 Advertising

The current trend to use street furniture as a platform for street advertising and revenue generation has the potential to add significant visual clutter to established streetscapes. Within Maribyrnong the extended use of street furniture advertising (beyond the use on bus shelters on main roads) should be discouraged. Further advertising on street furniture could detract from the overall presentation of the streetscape and potentially compromise the heritage qualities particularly in ‘village’ localities.

1.4 Furniture Placement & Installation

There are a number of issues with the current standards and methods of furniture placement and installation within the City of Maribyrnong. Where possible, specific issues and approaches are identified on individual sheets. The following are some general considerations and principles for placement and installation.

1.4.1 Furniture Placement Principles

These are general principles to be adhered to where it is applicable. In all circumstances careful placement and common sense should prevail.

- Within streetscape areas, street furniture should generally be set parallel to the alignment of the adjacent kerb.
- The minimum offset from the back of kerb for new furniture elements should be typically a minimum of 600mm, and aligned with adjacent elements wherever possible. Individual furniture guidelines include specific details about offsets from adjacent elements.
- In accordance with DDA requirements, a clear path of travel shall be maintained along building lines and frontages. No fixed or removable obstacles such as tables, chairs, pots, A-framed signs, café screens and the like shall be placed within a minimum 1.5m offset from the shop frontage (when footpath is less than 4.5m in width).
- Place street furniture elements where they are most needed. For example seats and bins should be provided near high activity shopping areas or bus stops. High activity areas (such as around train stations) where high numbers of pedestrians congregate may warrant additional furniture provision. The placement of seats close to automatic teller machines (ATMs) should be avoided.
- Seats, bins, bike racks are not to be located outside shop doorways.
- In open space areas, furniture should be offset from paths and desire lines and clear of the roots of existing trees.

1.4.2 Furniture Installation Principles

- Conceal exposed concrete footings where possible in asphalt by continuing the asphalt pavement treatment beneath furniture element (this is particularly relevant to seats, bins and bike hoops).
- When installing furniture elements within existing concrete, core drill or saw cut the existing surface to install the concrete footings and neatly make good pavement with a matching surface. Where concrete footings are exposed, the concrete should be tinted to match the adjacent surface colour.
- Install all elements in accordance with the manufacturer’s or supplier’s instructions and only use materials that are fit for their intended purpose.
- Set furniture elements level (both vertically and horizontally) rather than falling with the slope or ground level (or determined by Council in extreme slope situations).
- Adopt below-ground, non visible fixing methods wherever possible.
- Tamper proof fixings should be used where fixtures are visible or where theft is an issue.
- Wherever possible, fixtures should be of a standard size or of a type carried as standard items by Council’s maintenance staff (or can be ordered without lengthy lead times). Bins and seats should be fixed to facilitate removal for off-site maintenance if desirable.

Section 2
Footscray CAA

Footscray Central Activity Area (CAA)

2.1. Footscray Central Treatment Strategy Palette

The Footscray Central palette has been developed in recognition of the importance of the Footscray as the designated street based Central Activities Area within the City of Maribyrnong. The ongoing development and urban intensification of the Footscray has increased pressure on Council to plan for and provide streetscape treatments that encourage walking, cycling and public transport usage, as well as supporting retail growth.

As part of these projects a number of high quality street furniture elements and treatments have been developed. These are contemporary in style and utilise similar materials and design language. The accompanying images illustrate a consolidated suite of elements, mostly off the shelf items, that have been determined as suitable for general use within Footscray Central.

The accompanying map (Figure 3) indicates the extent of the Footscray CAA. The Footscray Central palette applies to the defined Footscray CAA boundary and immediate surrounds considered to form part of the central Footscray area. Each specific element description also includes a reference to the applicable location.

The development of the high profile Footscray Central suite is intended for general use within the CAA and immediate surrounds. This however does not preclude the adaption or repetition of other streetscape elements that have been developed or used within the Footscray Central area. Where existing streetscape elements or details are proposed to be repeated or modified, the works should be done in consultation with the approval of the original designers.

Additionally, due to the intensity of development proposed for Footscray, it is recognised that future additional elements or details may be required to be developed for specific high profile projects. The design and selection of these elements should consider the design criteria and selection policies outlined in Sections 1.2 and 1.3 of the Design Manual.

The elements are divided across a series of Standard Furniture (SF) explanations and technical details.

Figure 3. Extent of the Footscray CAA in Purple

Footscray Central Activities Area Palette

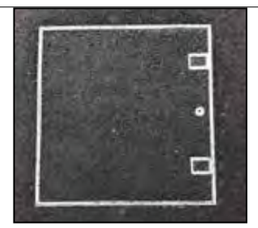
SF 001
Vehicular Crossing
Residential

SF 002
Vehicle Crossing
Commercial
Council Access

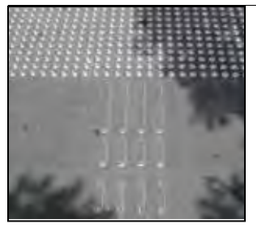
SF 003
Pram Crossing

SF 008
Kerb
Sawn bluestone kerb
and concrete channel

SF 010
Footpath
Asphalt Pavement



SF 016
Service Pit Lid Finish



SF 101
Tactile Indicators
Stainless steel

SF 201
Streetscape Seat

SF 202
Streetscape Bench

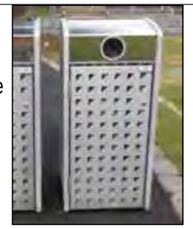
SF 204
Drinking Fountain
Stainless Steel

Footscray Central Activities Area Palette

SF 301
Bin
120 Litre General Litter Receptacle

SF 302
Bin
240 Litre General Litter Receptacle

SF 303
Bin
120 Litre Recycle Receptacle



SF 304
Bin
240 Litre Recycle Receptacle

SF 401
Bike Hoop
Footscray Bike Hoop

SF 501
Bollard
Pedestrian Zone

SF 502
Bollard
Traffic Management

SF 601
WSUD Tree Pit
Kerb entry water inlet with laser cut tree grate

SF 602
Tree Surround
Granitic gravel mulch with bluestone edge

SF 603
Tree Surround
Granitic gravel mulch with timber edge

SF 605
Street Tree Planting Bay

Footscray Central Activities Area Palette

SF 701
Signage
Footscray CAA
Wayfinding suite

SF 801
Bus shelter

SF 901
Standard Local Street Pole ‘luminaire’

SF902
Standard Local Street Pole ‘Luminaire’

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Vehicular Crossing - Residential

DESIGN STATEMENT
The standard Residential Vehicular Crossing detail for Maribyrnong City Council should be used throughout the Municipality.

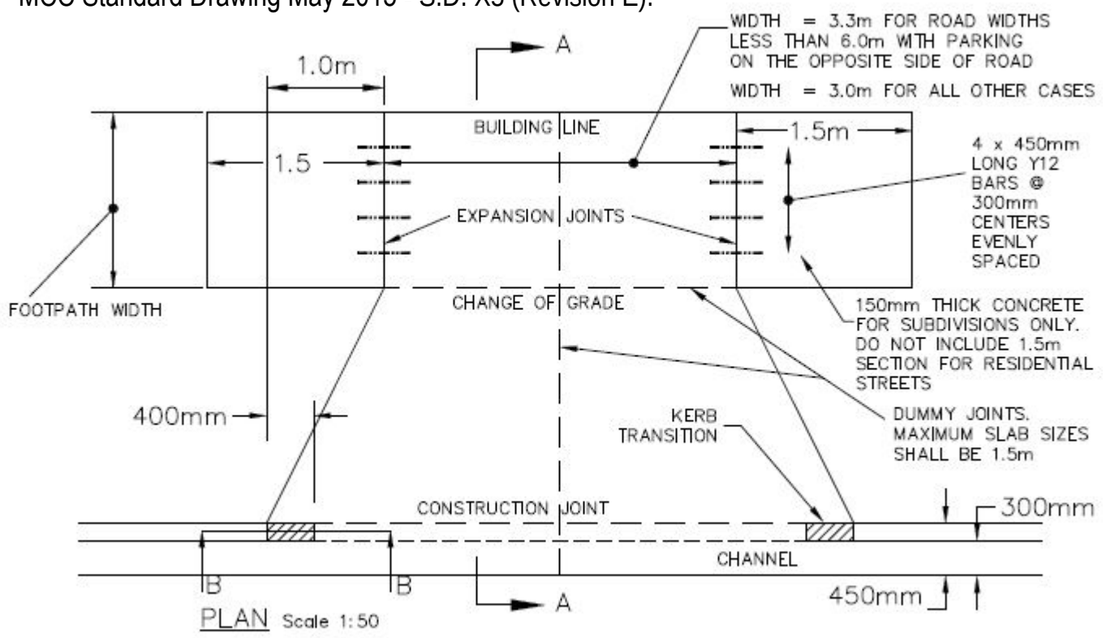
SF 001 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Heritage Sites

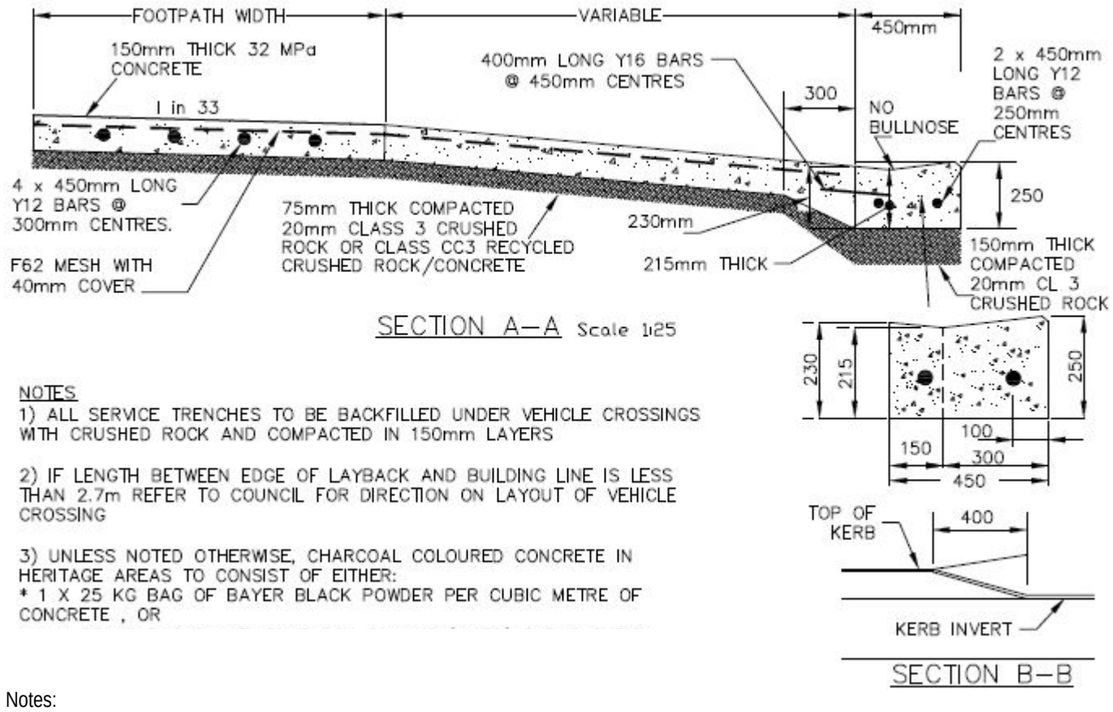
Element	Vehicular Crossing - Residential
Materials	• 150mm depth 32Mpa concrete with SL62 reinforcing. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth Class 3 crushed rock base
Finish	• Brushed concrete finish
Installation	• To Maribyrnong City Council Standard Working Drawings SD.X5 (Rev E).
Maintenance	• Responsibilty of property owner, unless works undertaken by an external third party.
Recommended Use	• To be used throughout the municipality for access to residential properties.
Supplier	• None specified.
Heritage Comments	• This detail may vary according to heritage area. Refer to heritage overlay for more detail.
Optional Extra	• None
Comments	• Install as per MCC Standard Working Drawings 2015- 2016 SD.X5 (Revision E) • Cross reference with site layout drawings.

Vehicular Crossing - Residential

CONSTRUCTION DETAILS

MCC Standard Drawing May 2015 - S.D. X5 (Revision E).





NOTES
1) ALL SERVICE TRENCHES TO BE BACKFILLED UNDER VEHICLE CROSSINGS WITH CRUSHED ROCK AND COMPACTED IN 150mm LAYERS

2) IF LENGTH BETWEEN EDGE OF LAYBACK AND BUILDING LINE IS LESS THAN 2.7m REFER TO COUNCIL FOR DIRECTION ON LAYOUT OF VEHICLE CROSSING

3) UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:
* 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE , OR

Notes:
1. Detail not to scale
2. Indicative only

Vehicular Crossing - Commercial & Council Access

DESIGN STATEMENT

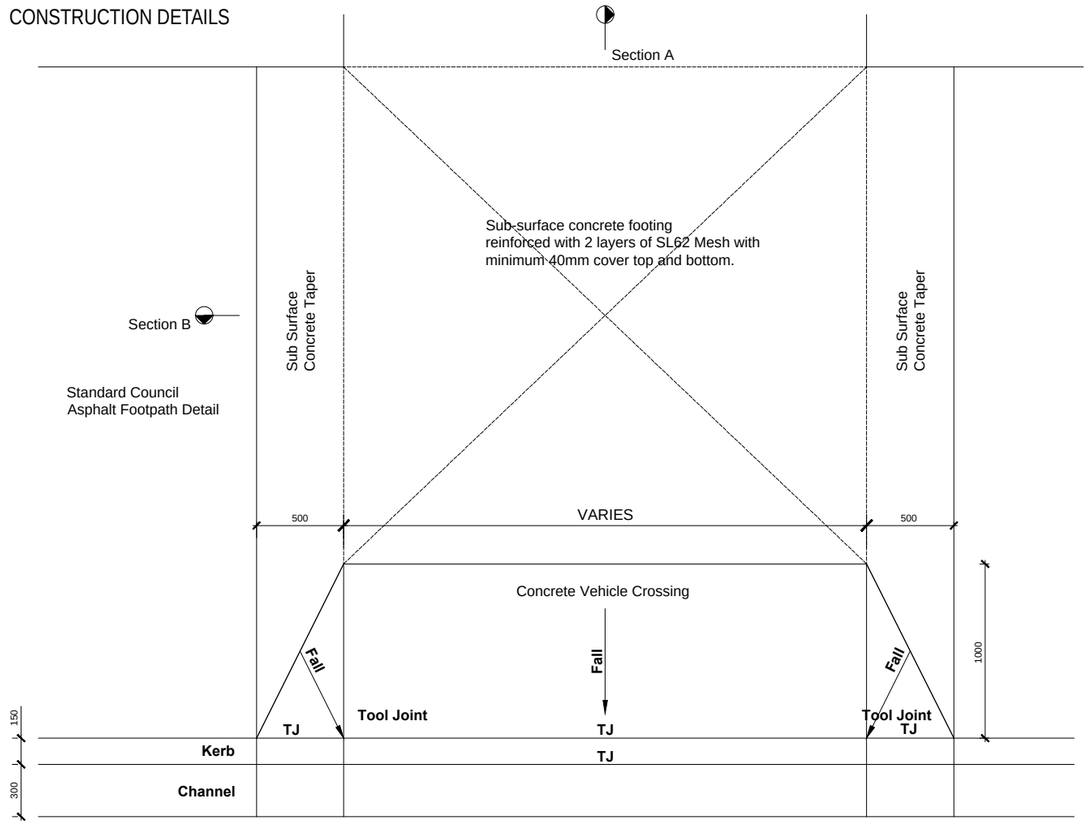
To be used across the Municipality where heavy goods are delivered. The crossing is reinforced with a subbase of concrete which is designed to withstand trucks and other large vehicles.

SF 002 applies to:
- Footscray CAA
- Local Activity Centres

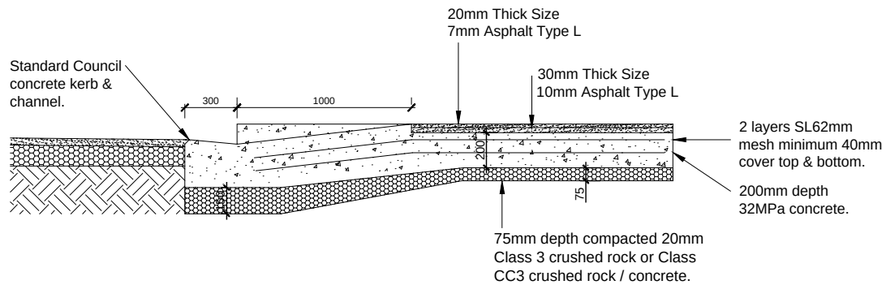
Element	Vehicular Crossing - Commercial & Council Access
Materials	• 200mm depth 32Mpa concrete with 2 layers of SL62 reinforcing. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth class 3 crushed rock base. • Asphalt Footpath • Sawn bluestone kerb for CAA
Finish	• Brushed concrete - transition, trowelled concrete to extension of kerb.
Installation	• Refer to construction detail on page 2.
Maintenance Tasks	• Repair as required. To be done by contractor.
Recommended Use	• Throughout all industrial streets, urban areas, delivery zones and access to Activity Centres.
Supplier	• None specified.
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings.

Vehicular Crossing - Commercial & Council Access

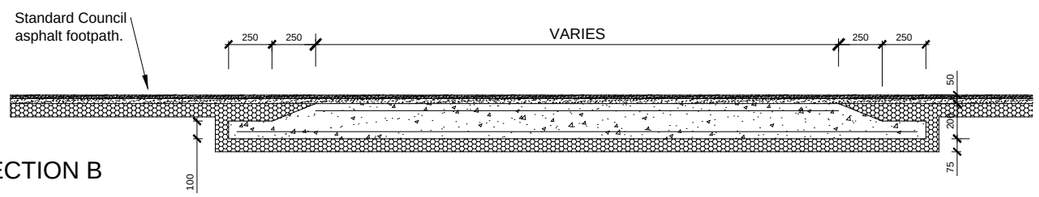
CONSTRUCTION DETAILS



PLAN



SECTION A



SECTION B

Notes:
1. Detail not to scale
2. Indicative only

Pram Crossing

DESIGN STATEMENT

This is the standard pram crossing detail for Maribyrnong City Council. The pram crossing is to be used throughout all areas of the Municipality.

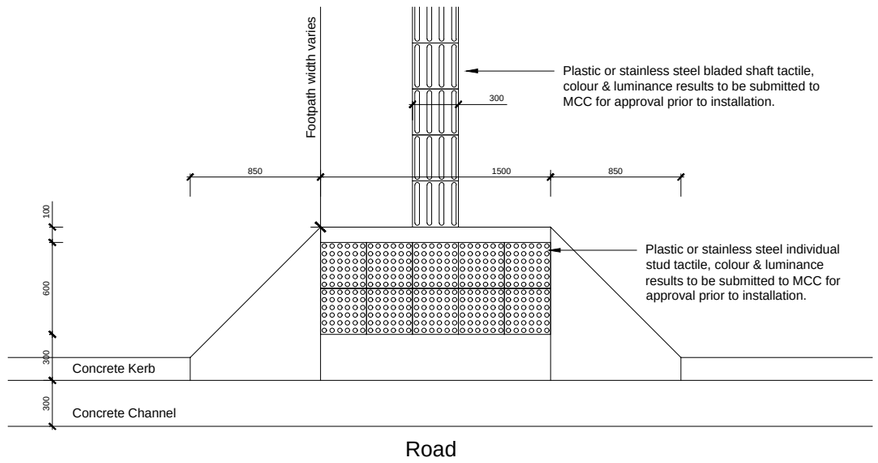
SF 003 applies to:

- Footscray CAA (CAA)
- Local Activity Centres
- General Municipality

Element	Pram Crossing
Materials	• Asphalt ramp, or • 25 Mpa coloured concrete ramp specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • Sawn bluestone ramp • 75mm depth class 3 crushed rock base.
Finish	• Asphalt, or • Trowelled charcoal concrete kerb • Sawn bluestone kerb for Footscray CAA
Installation	• To construction detail on page 2. • Maximum 1:10 grade
Maintenance Tasks	• Repair as required
Recommended Use	• Throughout all streets and urban areas: • Commercial zoned areas Footscray CAA and Local Activity Centres - Asphalt • All other areas - Concrete
Supplier	• None specified.
Heritage Comments	• Refer to Gamon Street, Seddon as an example of detail within heritage areas
Optional Extra	• None
Comments	• None

Pram Crossing

CONSTRUCTION DETAILS



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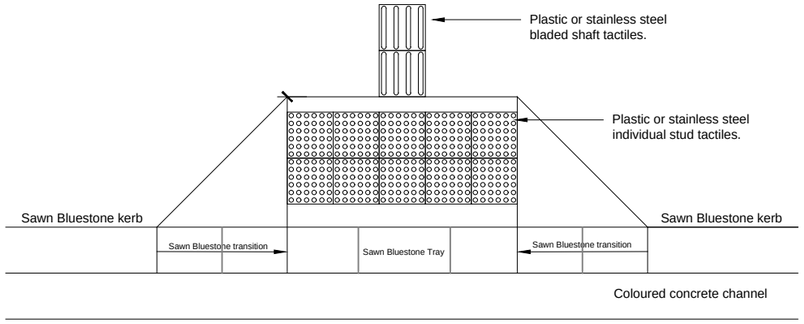


PLAN Road

Notes:

1. Detail not to scale
2. Indicative only

Kerb - Sawn Bluestone Kerb & Concrete Channel

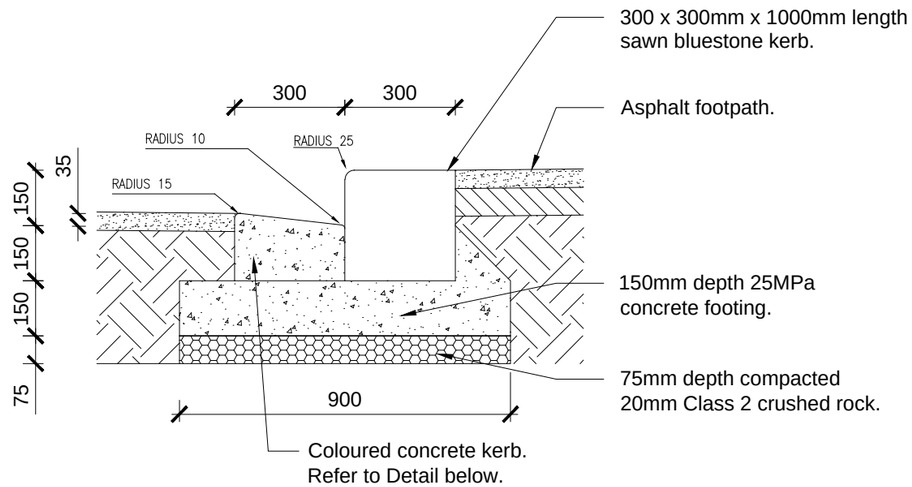
DESIGN STATEMENT
Sawn bluestone blocks with concrete channel is a high grade kerb treatment to be used only within the Footscray CAA.

SF 008 only applies to Footscray CAA.

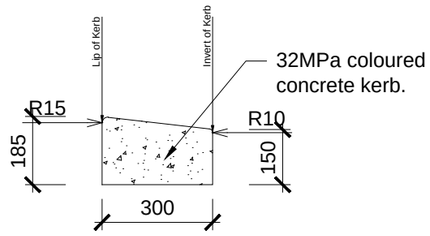
Element	Sawn Bluestone Kerb and Concrete Channel
Materials	• Local Victorian 300 x 300 x 1000mm sawn bluestone blocks • Coloured 32MPa concrete channel. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth class 3 crushed rock base. • Pedestrian grade asphalt pavement behind kerb
Finish	• Sawn bluestone • Trowelled concrete
Installation	• Refer to construction detail on page 2.
Maintenance Tasks	• Replace bluestone as necessary. Periodic channel cleaning to council street sweeping standard
Recommended Use	• Within the Footscray Central Area.
Supplier	• Various local suppliers of Victorian Bluestone or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Documentation: Cross reference with site layout drawings. • Refer to construction details on page 2

Kerb - Sawn Bluestone Kerb & Concrete Channel

CONSTRUCTION DETAILS



SECTION



KERB DETAIL SECTION

Notes:
1. Detail not to scale
2. Indicative only

Footpath - Asphalt Pavement

DESIGN STATEMENT
Asphalt footpaths are used throughout most areas of the Municipality. All existing areas should be retained and reinstated as asphalt paving.

All new footpaths should match into the existing material conditions, unless stipulated otherwise by Council.

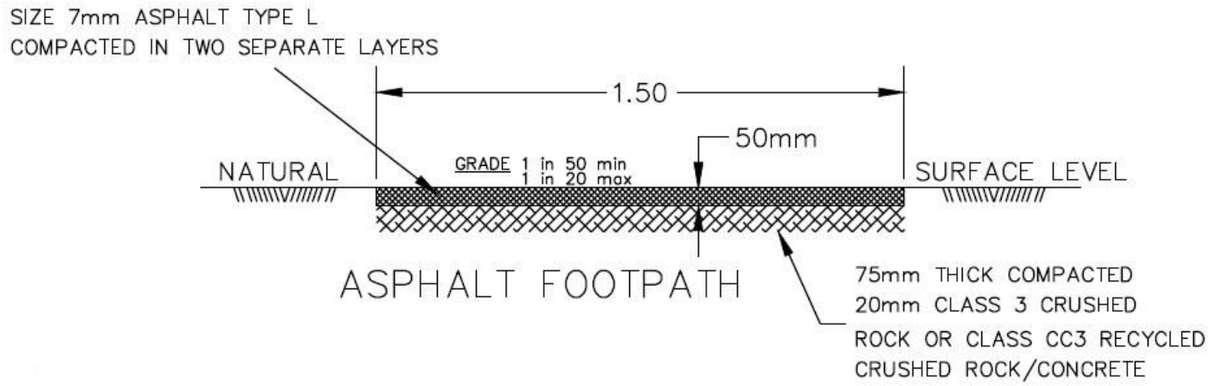
SF 010 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

Element	Footpath - Asphalt Pavement
Materials	• Asphalt - Size 7 mm Type L • 75mm consolidated depth Class 3 crushed rock base.
Finish	• Smooth continuous asphalt finish with minimal joins
Installation	• To Maribyrnong City Council Standard Working Drawings 2015 SD.X10
Maintenance Tasks	• Replace as necessary.
Recommended Use	• Within all existing asphalt footpaths and any new developments where approved by Council
Supplier	• None specified
Heritage Comments	• None
Optional Extra	• None
Comments	• Documentation: Cross reference with site layout drawings. • Install as per MCC Standard Drawing May 2015 - SD.X10 (Revision D)

Footpath - Asphalt Pavement

CONSTRUCTION DETAILS

MCC Standard Drawing - May 2015 - SD. X10 (Revision D)



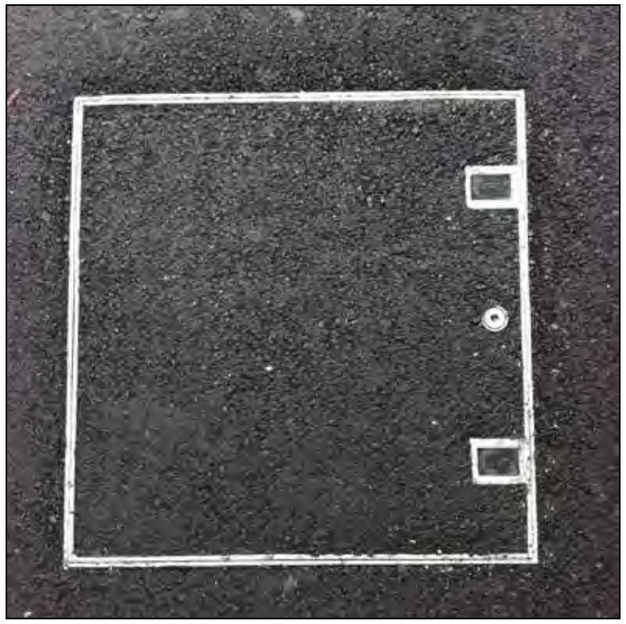
SECTION

Notes:
1. Detail not to scale
2. Indicative only

Service Pit Lid Finish

DESIGN STATEMENT
Asphalt and concrete infilled pit lids should be used across the municipality, including the Footscray Central Area and Local Activity Centres to enable safe access to utility services. All infilled pits must meet Australian Standards and Service Provider requirements and pit lids be designed according to drawing SF 016. Specific pit lid dimensions will vary across different site conditions.

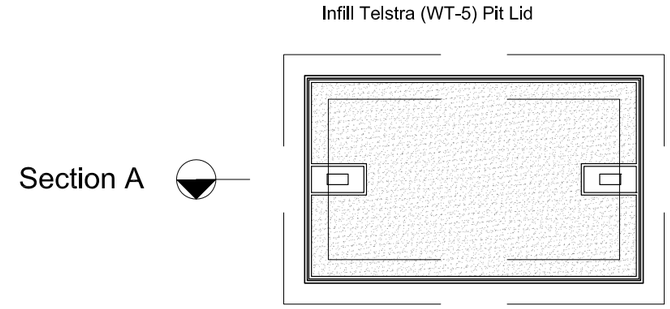
SF 016 applies only to Footscray CAA

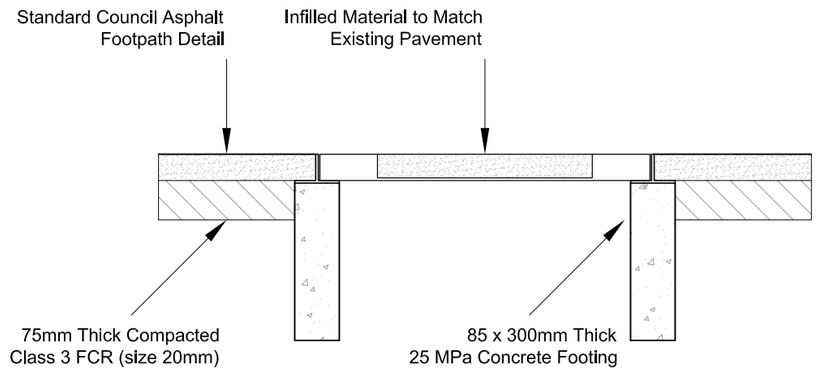


Element	Infilled Asphalt Pit Lid - Telstra Connection
Materials	• Galvanised steel infilled pit lid • Infill to be Council approved asphalt (hot mix only) or. • 25 MPa plain grey concrete, 32MPa for coloured concrete • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council).
Finish	• Asphalt • Brushed finish for concrete surfaces
Installation	• Construct and set all pits to the design levels • Install asphalt and compact in situ
Maintenance Tasks	• Repair as necessary.
Recommended Use	• To be used as required by council throughout the municipality.
Supplier	• All infilled pits are to meet the required Australian Standards and Service Provider requirements Eg. Telstra • Asphalt: Installed by approved MCC supplier or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings prior to installation as conditions may vary with regard to dimensions.

Service Pit Lid Finish

CONSTRUCTION DETAILS





Section A

Notes:
1. Detail not to scale
2. Indicative only

Tactile Indicators - Stainless Steel

DESIGN STATEMENT
The use of tactile indicators is required at pedestrian crossing points and pubic transport stops to conform with disability access requirements.

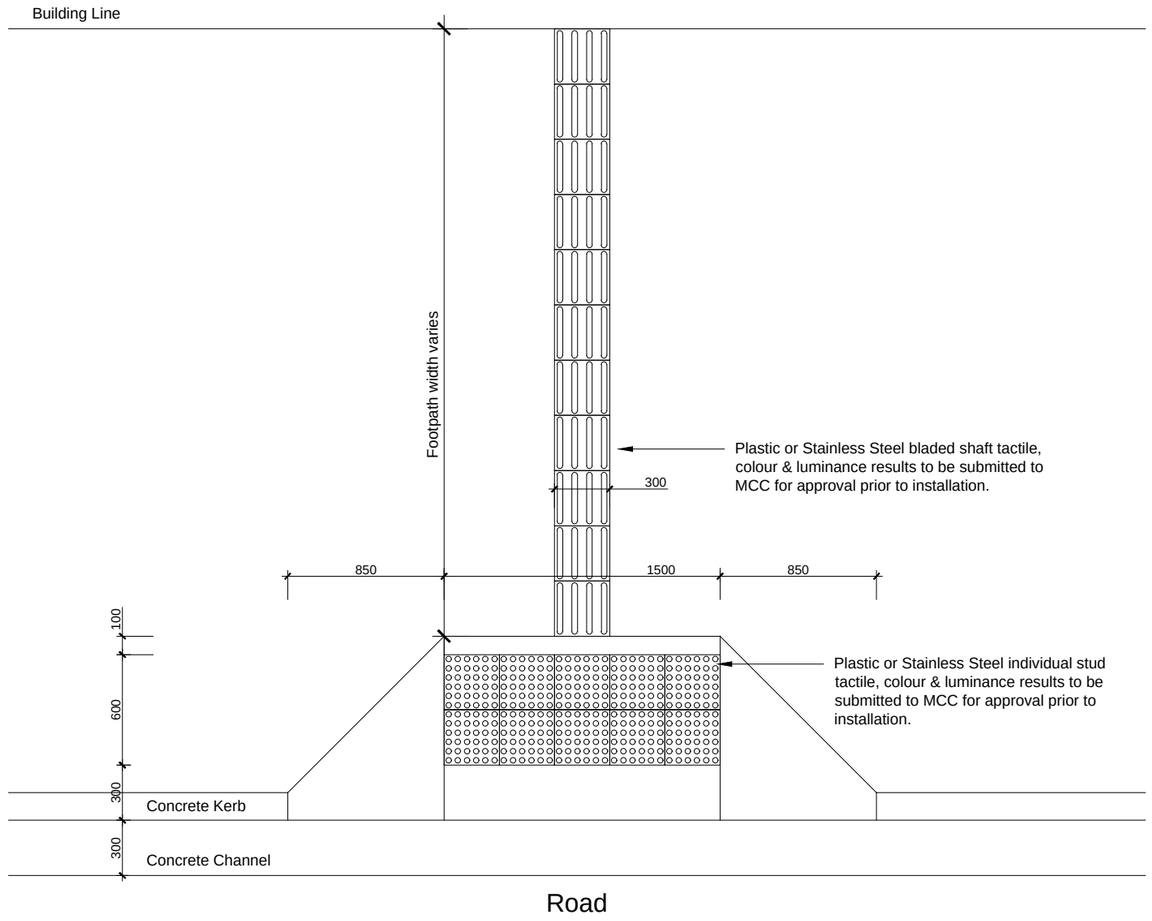
The use of stainless steel indicators is recommended for Footscray Central Area.

SF 101 only applies to Footscray CAA.

Element	Tactile Indicators - Stainless Steel
Materials	• Grade 316 stainless steel indicators.
Finish	• Finished to achieve anti-slip resistance rating of R13 in • accordance with guidelines HB 197-1999.
Installation	• Refer to A.S. 1428.1 (2009) and A.S. 1428.4 for profile and correct placement of TGSI's. If conflict occurs between council drawings and Australian Standard defer to Australian Standard. • Install to manufacturers specification. • Refer to construction details on page 2.
Maintenance Tasks	• Ensure tactiles and blades are securely fastened to ground surface. • Replace missing buttons and blades as required.
Recommended Use	• High use pedestrian environments and public transport stops
Supplier	• CTA Australia Ph.1300 282 282 (www.cobbletac.com) or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• For use in Footscray CAA

Tactile Indicators - Stainless Steel

CONSTRUCTION DETAILS



PLAN

2. Detail not to scale
3. Indicative only

Streetscape Seat

DESIGN STATEMENT
The 'Promenade' seat provides a contemporary seat that is an ideal combination of durable materials for civic furniture within streetscape areas in Maribyrnong.

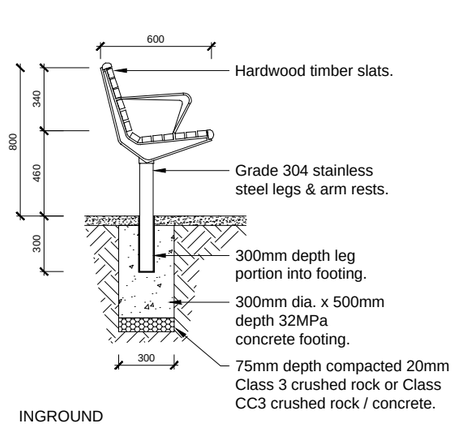
The seat includes a cast aluminium frame and hardwood timber making it very robust.

SF 201 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

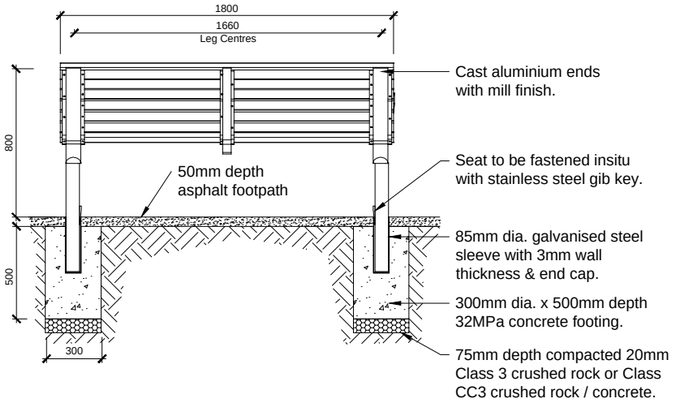
Element	Streetscape Seat
Materials	• Stainless steel leg pipes • Cast aluminium frame • Plantation hardwood timber slats
Finish	• Stainless Steel Leg pipes - Polished • Aluminium frame - Natural Mill Finish • Plantation Hardwood Timber Slats Dressed with Kwila Oil
Installation	Refer to manufacturers specifications and construction detail on page 2. Concrete Pavement Installation • Bolted: Seats to be bolted onto concrete pavement as per detail or according to manufacturers recommendations. Asphalt Pavement Installation • In Ground: Seat legs to be slotted into sleeve with gib key as per suppliers in-ground specifications. • Footing design and fixing to be in accordance with engineer's recommendations.
Maintenance Tasks	• Hand clean as required. • Aluminium to be pressure cleaned annually • Battens to be replaced individually as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in all streetscape areas. Seats should face shops parallel to the kerb line.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Promenade Seat or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Minimum 60 metre centre spacings for seat installation within the Footscray CAA.

Streetscape Seat

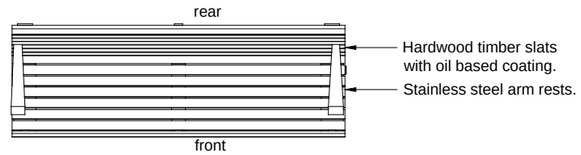
CONSTRUCTION DETAILS



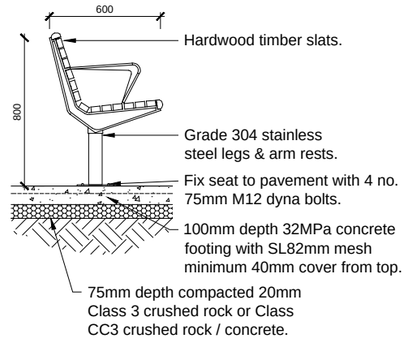
INGROUND FIXING SIDE SECTION



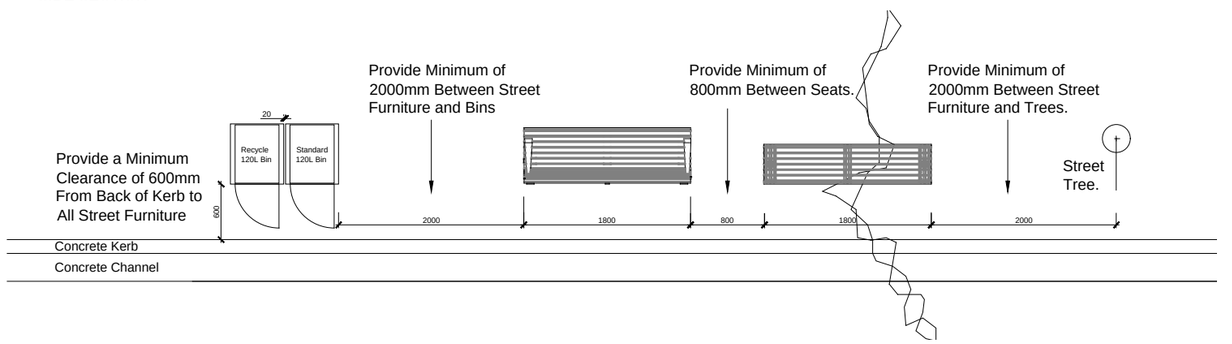
REAR SECTION



PLAN



BOLT DOWN FIXING SIDE SECTION



Notes:
1. Detail not to scale
2. Indicative only

Streetscape Bench

DESIGN STATEMENT
The ‘Promenade’ Bench provides a contemporary seat to be used at bus stops and appropriate locations where sitting versatility is required. This seat is an ideal combination of durable materials for civic furniture outside of Footscray Central Area.

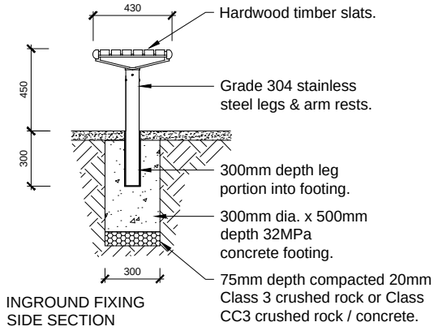
The seat includes a cast aluminium frame making it very robust.

SF 202 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

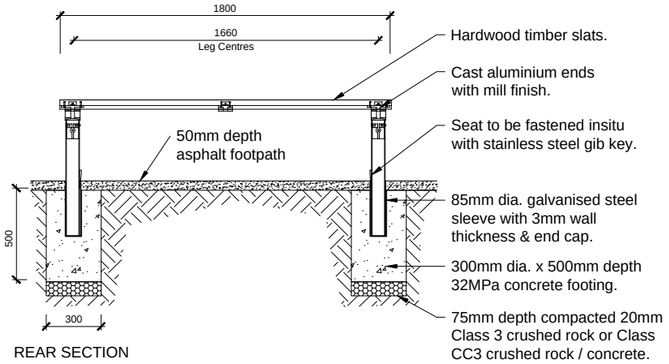
Element	Streetscape Bench
Materials	• Stainless Steel leg pipes • Cast aluminium frame • Plantation Hardwood timber slats
Finish	• Stainless Steel Leg pipes (Polished) • Aluminium frame (Natural Mill Finish) • Plantation Hardwood Timber Slats (Kwila Oil)
Installation	Refer to manufacturers specifications and construction detail on page 2. Concrete Pavement Installation • Bolted: Seats to be bolted onto concrete pavement as per detail or according to manufacturers recommendations. Asphalt Pavement Installation • In Ground: Seat legs to be slotted into sleeve with gib key as per suppliers in-ground specifications. • Footing design and fixing to be in accordance with engineer’s recommendations.
Maintenance Tasks	• Hand clean as required. • Aluminium to be pressure cleaned annually • Battens to be replaced individually as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in all streetscape areas. Seats should face shops parallel to the street.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: ‘Promenade’ Bench or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Minimum 60 metre centres for seat installation within the Footscray CAA

Streetscape Bench

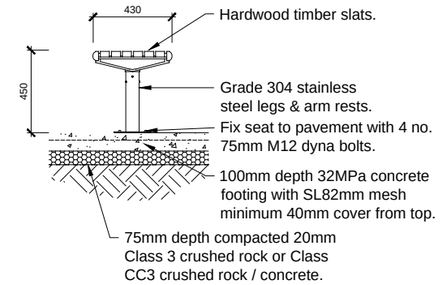
CONSTRUCTION DETAILS



INGROUND FIXING
SIDE SECTION

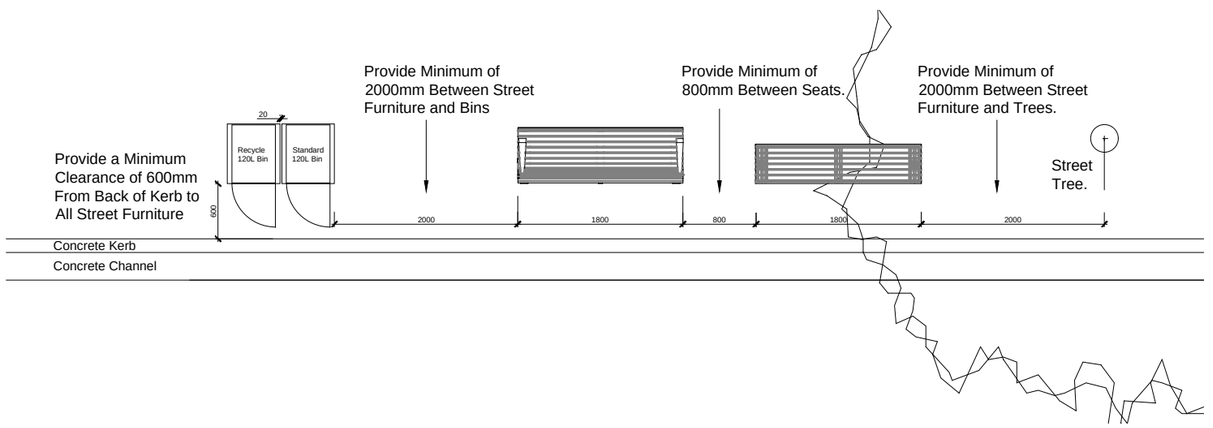


REAR SECTION



BOLT DOWN FIXING
SIDE SECTION

PLAN



Notes:
1. Detail not to scale
2. Indicative only

Drinking Fountain

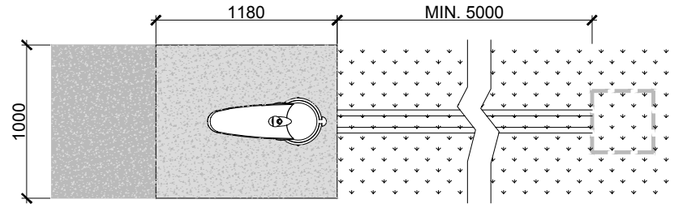
DESIGN STATEMENT
The Stainless steel 'Bent Leaf' drinking fountain with bottle filler and dog bowl is an easy to operate water drinking and general access system. The contemporary design will be supplied by Council and is to be used across all areas across the Municipality.

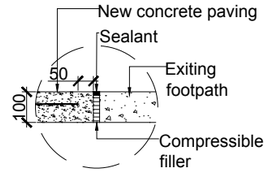
SF 203 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Open Space

Element	Stainless Steel Drinking Fountain with optional bottle filler and dog bowl
Materials	• Grade 316 stainless steel
Finish	• Stainless steel: Electro polished.
Installation	• Refer to manufacturers specifications and construction details on page 2.
Maintenance Tasks	• Clean regularly • Graffiti removal using non toxic product such as Guardian International Citrus product (or similar approved) as required. • Look for rusting, weak or damaged hinges and loose base fixing.
Recommended Use	• Recommended for use across all areas within Maribyrnong City Council.
Supplier	• JC Brown (Blakiston & Shortell Pty. Ltd.) Ph: (03) 5221 3177 Product: 'City of Melbourne style Bent Leaf Drinking Fountain with Bottle Filler and Dog Bowl or approved equivalent.
Heritage Comments	• None.
Optional	• Bottle filler and dog bowl.
Comments	• Cross reference with site layout drawings. • All queries should be clarified with Council prior to commencing works.

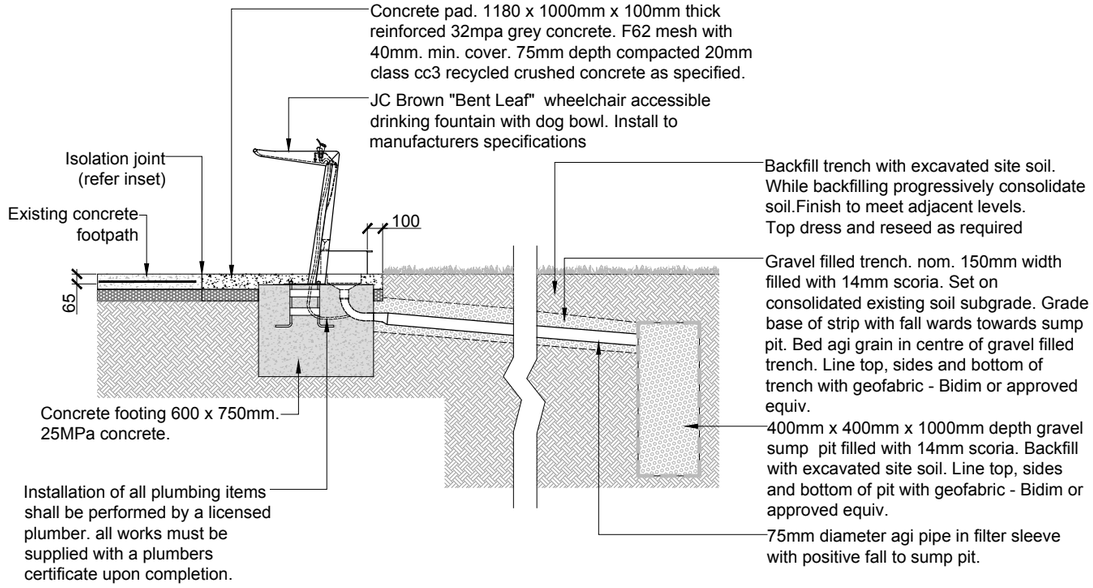
Drinking Fountain

CONSTRUCTION DETAILS





ISOLATION JOINT



Notes:
1. Detail not to scale
2. Indicative only

Bin - 120 Litre General Litter Receptacle

DESIGN STATEMENT
The 120 litre general litter receptacle is recommended for use within the MCC Open Space and across the Municipality.

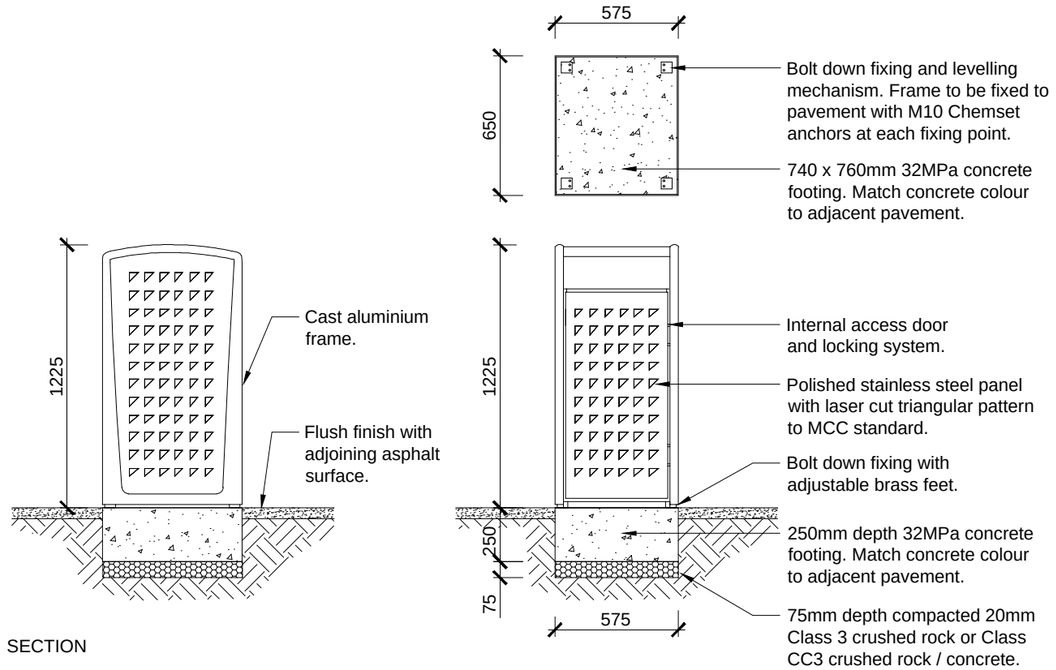
The receptacle is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

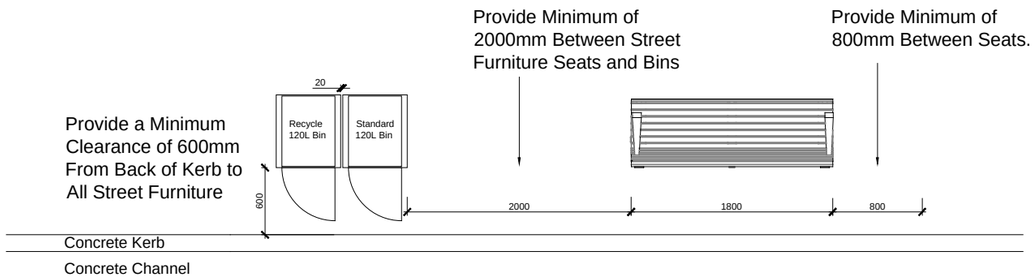
SF 301 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

Element	• Bin - 120 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Litter Receptacle • Ash Canister - Butt-Out Australia Ph. 1800 358 258 or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles can be placed side by side. • Optional stainless steel Butt-Out Ash canister to Footscray CAA and Local Activity Centres only.

Bin - 120 Litre General Litter Receptacle

CONSTRUCTION DETAILS





Notes:
1. Detail not to scale
2. Indicative only

Bin - 240 Litre General Litter Receptacle

DESIGN STATEMENT
The 240 litre general litter receptacle is recommended for use within the MCC Open Space and across the Municipality.

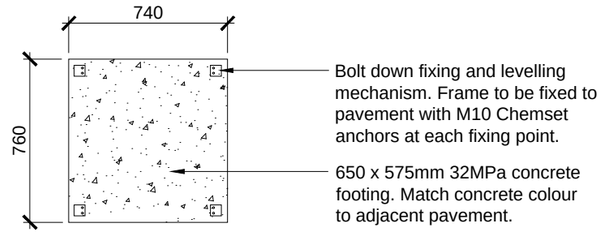
The receptacle is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 302 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

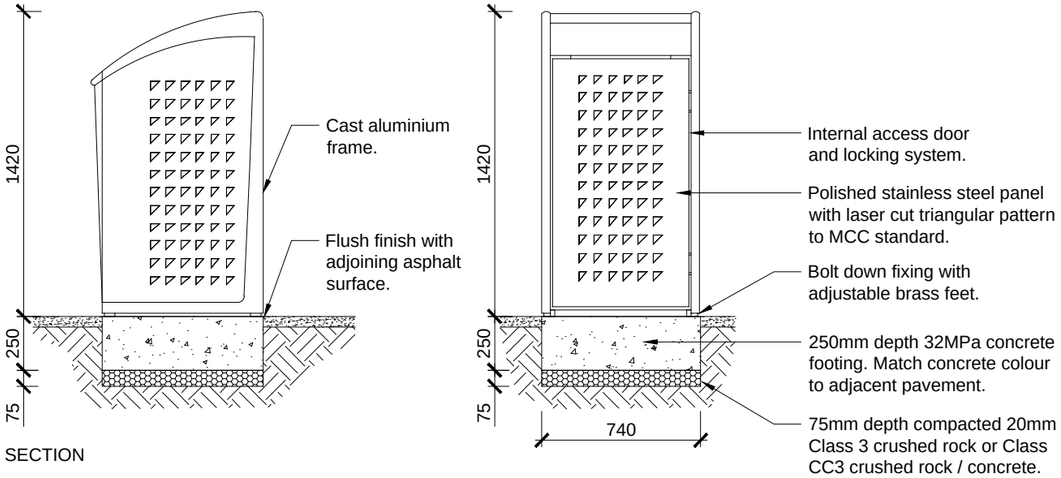
Element	• Bin - 240 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Litter Receptacle • Ash Canister - Butt-Out Australia Ph. 1800 358 258 or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles can be placed side by side. • Optional stainless steel Butt-Out Ash canister to Footscray CAA and Local Activity Centres only.

Bin - 240 Litre General Litter Receptacle

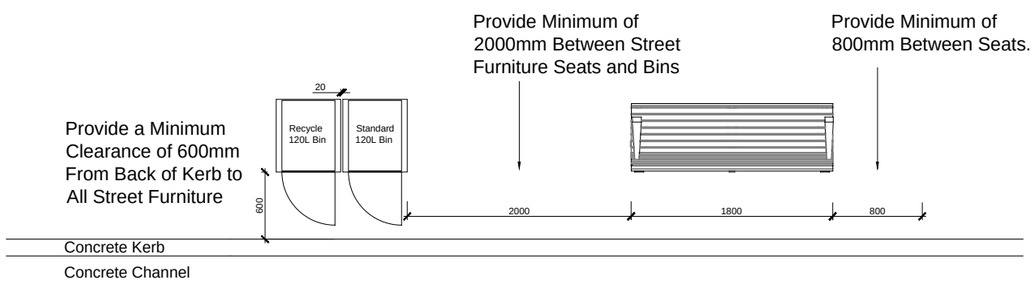
CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



SECTION



Notes:
1. Detail not to scale
2. Indicative only

Bin - 120 Litre Recycle Receptacle

DESIGN STATEMENT

The 120 litre Recycle Receptacle is recommended for use within the Footscray Central Area, Local Activity Centres and open space areas in the Municipality.

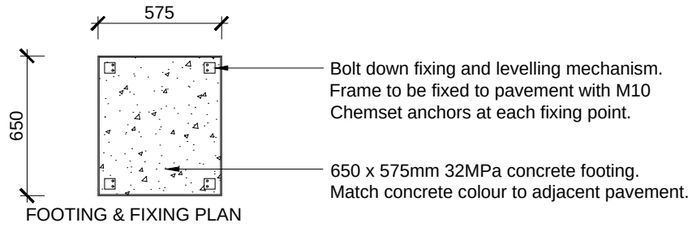
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 303 applies to
- Footscray CAA
- Local Activity Centres
- Open Space Areas

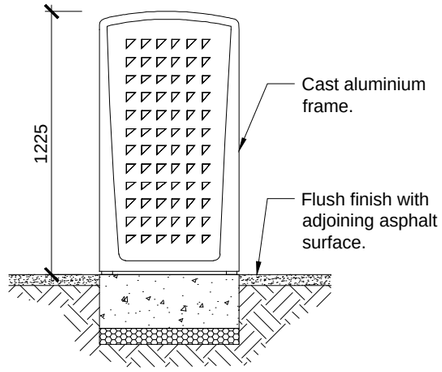
Element	• Bin - 120 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic 'wheelie' bin. • Rubber 'bottle' insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Recycle Receptacle or approved equivalent.
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles can be placed side by side.

Bin - 120 Litre Recycle Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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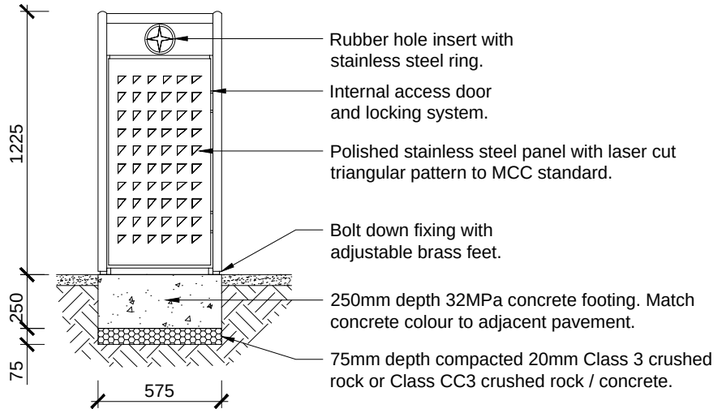
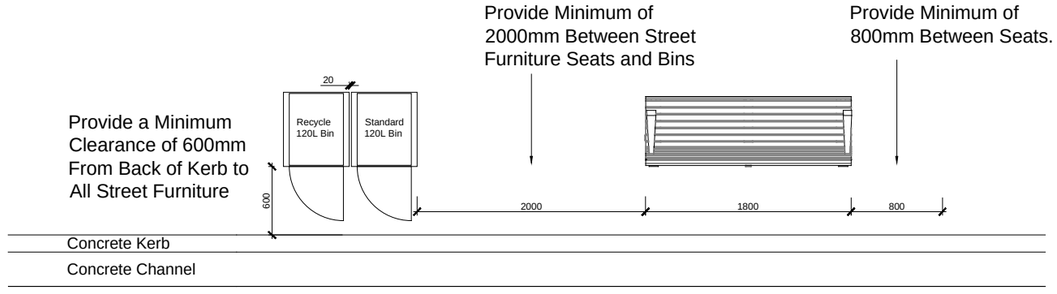




Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bin - 240 Litre Recycle Receptacle

DESIGN STATEMENT
The 240 litre Recycle Receptacle is recommended for use within the Footscray Central Area, Local Activity Centres and open space areas in the Municipality.

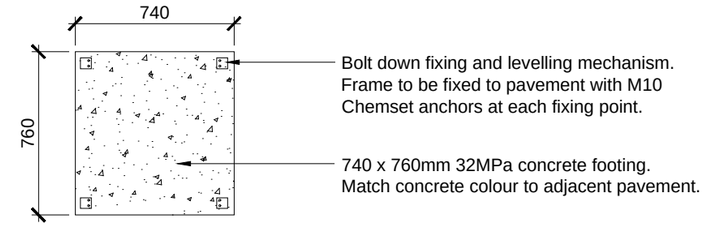
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 304 applies to
- Footscray CAA
- Local Activity Centres
- Open Space Areas

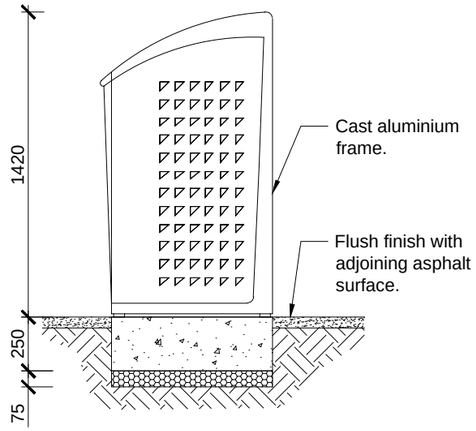
Element	• Bin - 240 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin. • Rubber 'bottle' insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Recycle Receptacle or approved equivalent.
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles can be placed side by side.

Bin - 240 Litre Recycle Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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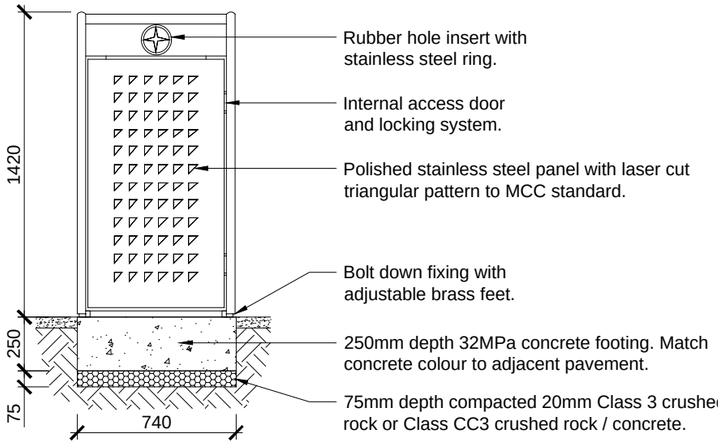
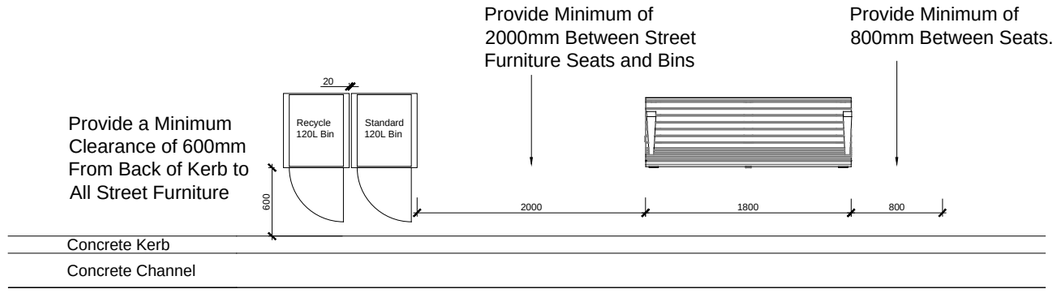




Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bicycle Hoop - Footscray Hoop

DESIGN STATEMENT
The Footscray bicycle hoop is unique to the Footscray Central Area and designed and located to create a bicycle friendly environment.

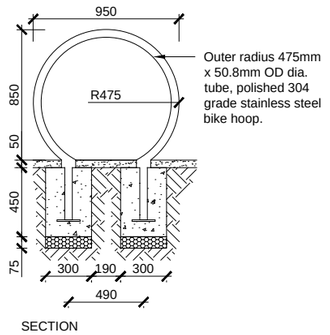
The bicycle hoop can be installed singularly or in groups as required, typically positioned at each street corner, where footpath widths are available, and to meet the communities requirements.

SF 401 only applies to Footscray CAA.

Element	• Bicycle Hoop - Footscray Hoop
Materials	• Grade 304 stainless steel tube 50.8mm OD x 2.0mm wall 44.5mm OD x 2.77mm wall welded steel tube stiffener fitted to inside of stainless steel tube.
Finish	• Polished stainless steel.
Installation	• Refer to construction detail on page 2. • Cored installation option into existing concrete pavement areas, approx. 200mm dia core with high strength grout, match in with existing pavement. • When being installed in existing pavements neatly saw cut and make good paving following installation with 25mm of asphalt cover.
Maintenance Tasks	• Replace as necessary.
Recommended Use	• SF401 bike hoop to be used within Footscray CAA. • Standard bike hoop SF402 to be used throughout the municipality. • Installed singularly or in groups, to be determined on site.
Supplier	• Various suppliers including Furphy Foundry Pty. Ltd. Ph: 1300 768 230 or approved equivalent
Optional Extra	• None
Comments	• A minimum pedestrian thoroughfare must be maintained at all times of 1.5 metres from the building line. • Setout in accordance with layout plan on page 2

Bicycle Hoop - Footscray Hoop

CONSTRUCTION DETAILS



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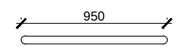
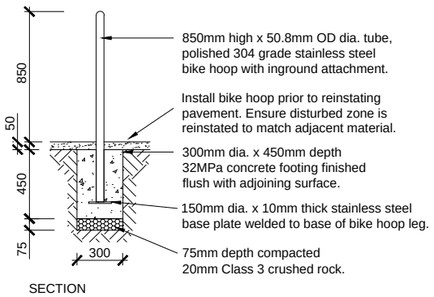


PLAN



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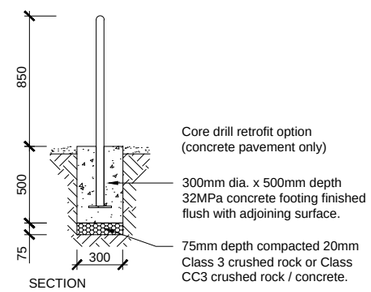

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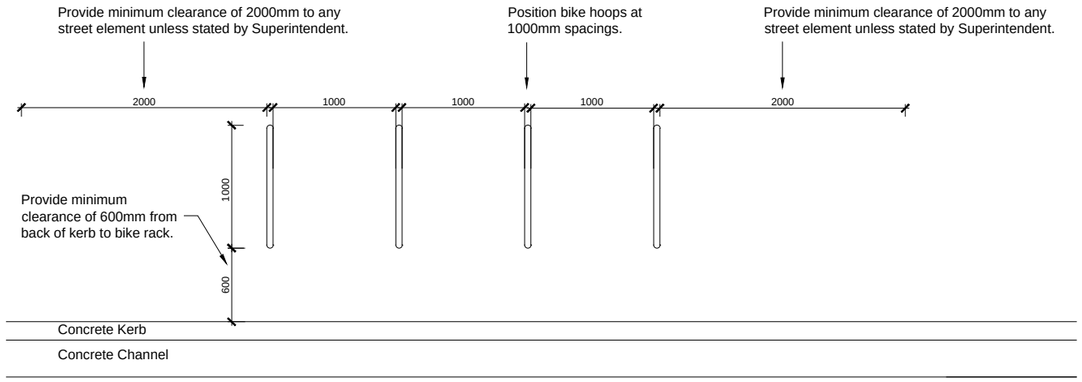
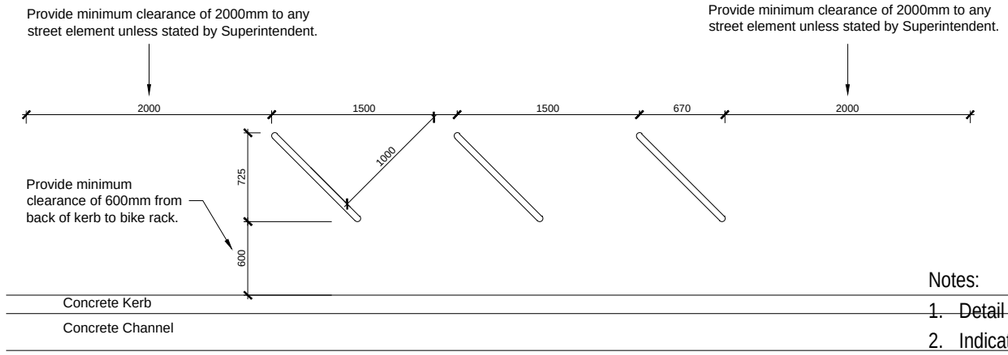


PLAN



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Bollard - Pedestrian Zone

DESIGN STATEMENT
The stainless steel flat top bollard is suitable for use in the Footscray Central Area. The minimal design is intended to complement the style of existing urban furniture elements such as the seats, bins and bike hoops.

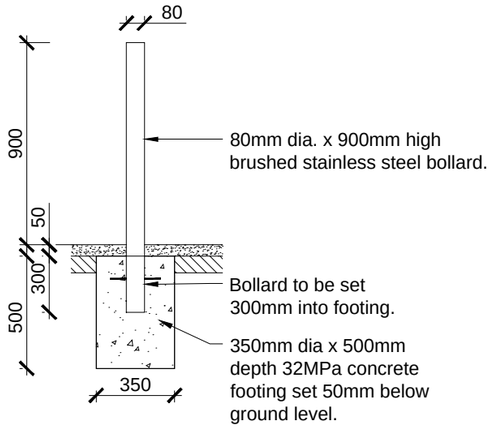
The diameter of the bollards should be selected according to the place of application. The 80mm diameter bollard is preferred in pedestrian areas.

SF 501 only applies to Footscray CAA.

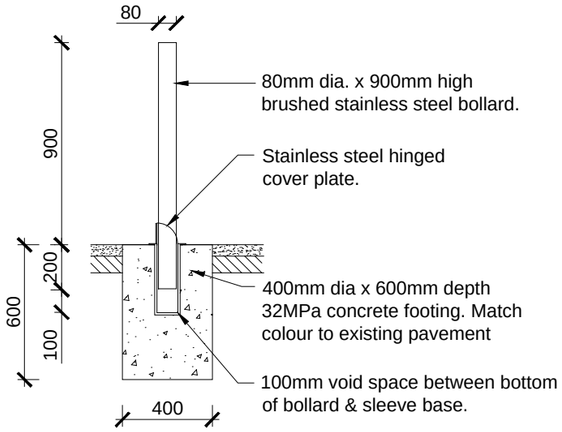
Element	Bollard - Pedestrian Zone
Materials	• 80NB x 3.05mm Grade 304 stainless steel pipe, flat cap (and if, selected, base plate).
Finish	• Stainless steel: Electro-finished.
Installation	• Inground installation or • Locking or Removable Installation • Refer to Construction detail on page 2.
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• General streetscape areas as required to control access • Protect electrical cabinets from vehicle • White Reflective tape Class 1 (AS 1906.1) for visibility in vehicular area only.
Supplier	• Leda Security Ph: 1300 780 450 Product: Slimline 80NB SSP80F 3.05 (inground) / SSP80R A 3.05 (removable) or approved equivalent.
Optional Extra	• Locking and removable options
Comments	• Refer also to SF 502 for on-road option • Cross reference with site layout drawings.

Bollard - Pedestrian Zone

CONSTRUCTION DETAILS



INGROUND FIXING
SECTION



REMOVABLE BOLLARD
SECTION

Notes:
1. Detail not to scale
2. Indicative only

Bollard - Vehicular Zones

DESIGN STATEMENT
The stainless steel flat top bollard is suitable for use in the Footscray Central Area. The minimal design is intended to complement the style of existing urban furniture elements such as the seats, bins and bike hoops.

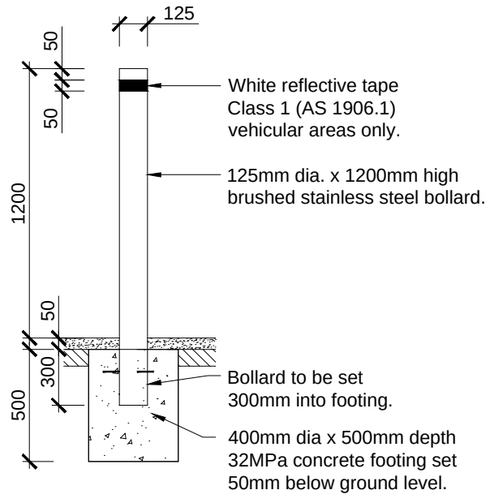
The 125mm diameter bollard is to be selected for carparks and other high use vehicular locations. Use greater wall thickness in vehicle impact areas.

SF 502 only applies to Footscray CAA.

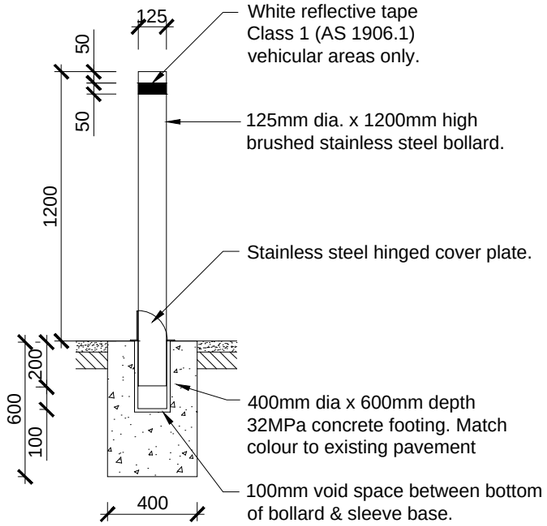
Element	Bollard - Vehicular Zones
Materials	• 125NB x 3.40mm Grade 304 stainless steel pipe, flat cap (and if, selected, base plate).
Finish	• Stainless steel: Electro-finished.
Installation	• Inground installation or • Locking or Removable Installation • Refer to Construction detail on page 2.
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• General streetscape areas as required to control access • Protect electrical cabinets from vehicle • White Reflective tape Class 1 (AS 1906.1) for visibility in vehicular area only.
Supplier	• Leda Security Ph: 1300 780 450 Product: Slimline 125NB SSP125F A (inground) / SSP125R A (removable) or approved equivalent.
Optional Extra	• Locking and removable options
Comments	• Refer also to SF501 for slimmer option for pedestrian zones. • Cross reference with site layout drawings.

Bollard - Vehicular Zones

CONSTRUCTION DETAILS



INGROUND FIXING
SECTION



REMOVABLE BOLLARD
SECTION

Notes:
1. Detail not to scale
2. Indicative only

Tree Surround - WSUD

DESIGN STATEMENT

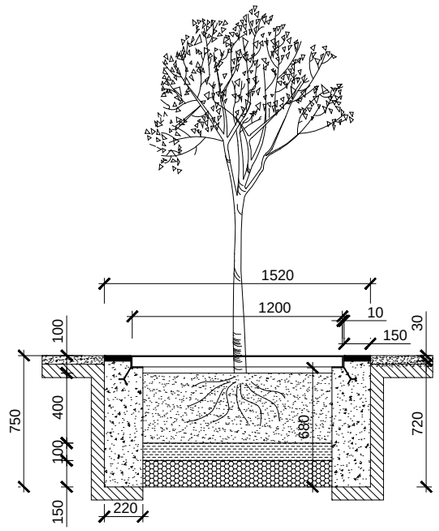
The WSUD Tree Surround is to be used across Local Activity Centres. The element consists of a concrete tree pit in the centre and custom designed galvanised steel grate surrounding the tree base. The custom design integrates a series of laser cut texts and expansion rings around the tree base, allowing rainwater and excess water runoff to enter into the soil and root system.

SF 601 applies to:
- Footscray CAA.

Element	WSUD Tree Pit
Materials	• Galvanised steel tree pit frame • 32 MPa concrete footings
Finish	• Laser cut galvanised steel tree grate with project specific custom design.
Installation	• As per construction details on page 2.
Maintenance Tasks	• Clean as necessary. • Components to be replaced if bent or damaged. • Remove graffiti with a non toxic product such as Guardian International Citrus or similar.
Recommended Use	• As required in the Footscray CAA.
Supplier	• Council approved contractor or approved equivalent
Heritage Comments	• Not to be used in heritage areas
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings. Install as per specifications. All questions should be clarified with Council prior to commencing works.

Tree Surround - WSUD

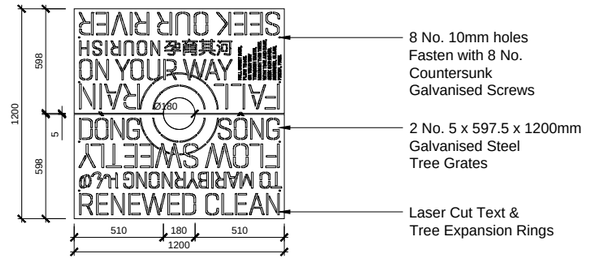
CONSTRUCTION DETAILS



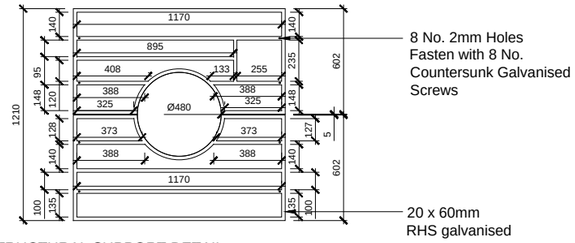
SECTION

PLAN

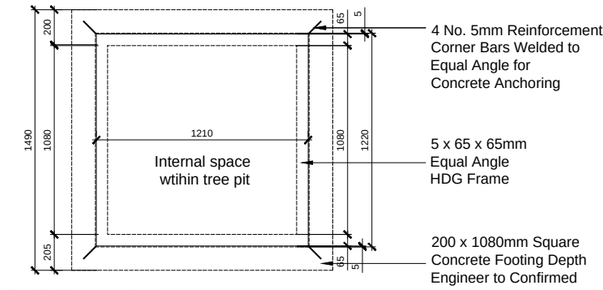
Plan



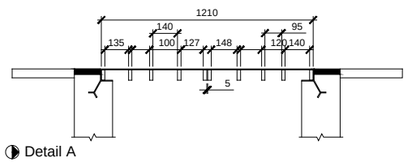
TREE GRATE DETAIL



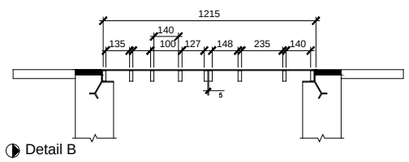
STRUCTURAL SUPPORT DETAIL



TREE FRAME DETAIL



Detail A



Detail B

Notes:
1. Detail not to scale
2. Indicative only

Tree Surround - Granitic Gravel with Bluestone Edging

DESIGN STATEMENT

The urban gravel tree surround and bluestone edging is designed to maximise greening opportunities. This treatment would be seen across the Footscray Central Area.

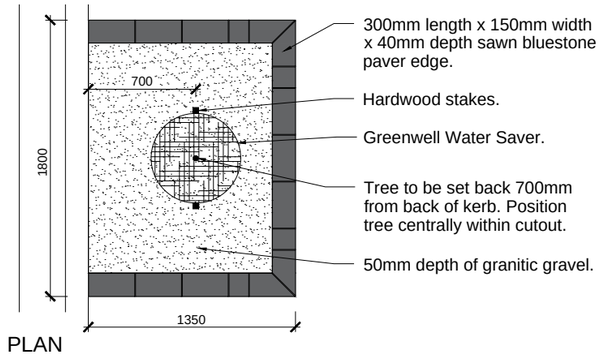
SF 602 applies to:

- Footscray CAA
- Local Activity Centres

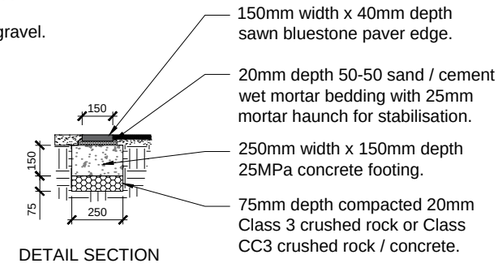
Element	Granitic Gravel Tree Bay with Bluestone Edging
Materials	• Typical dimensions: 1350x1800mm • Blue stone paved edge: 300mm x 150mm x 40mm depth sawn bluestone edging • Granitic gravel mulch: 50m compacted depth
Finish	• Bluestone edge to be flushed with adjacent surface finishes • Granitic gravel mulch to finish flushed with bluestone edge • Ensure no depression or ruts are present. Raked to smooth even finish
Installation	• Along kerb side on asphalt or concrete footpaths. • As per construction detail on page 2
Maintenance Tasks	• Clean litter and re-apply gravel as necessary to prevent depression and ponding.
Recommended Use	• As required in the Footscray CAA and all Local Activity Centres, where WSUD is not possible.
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved) • Bamstone Port Fairy Bluestone • Victorian Bluestone Quarries • Granite Works or approved equivalent
Heritage Comments	• Not to be used in heritage areas unless otherwise specified by landscape architect.
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings. • Install as per specifications.

Tree Surround - Granitic Gravel with Bluestone Edging

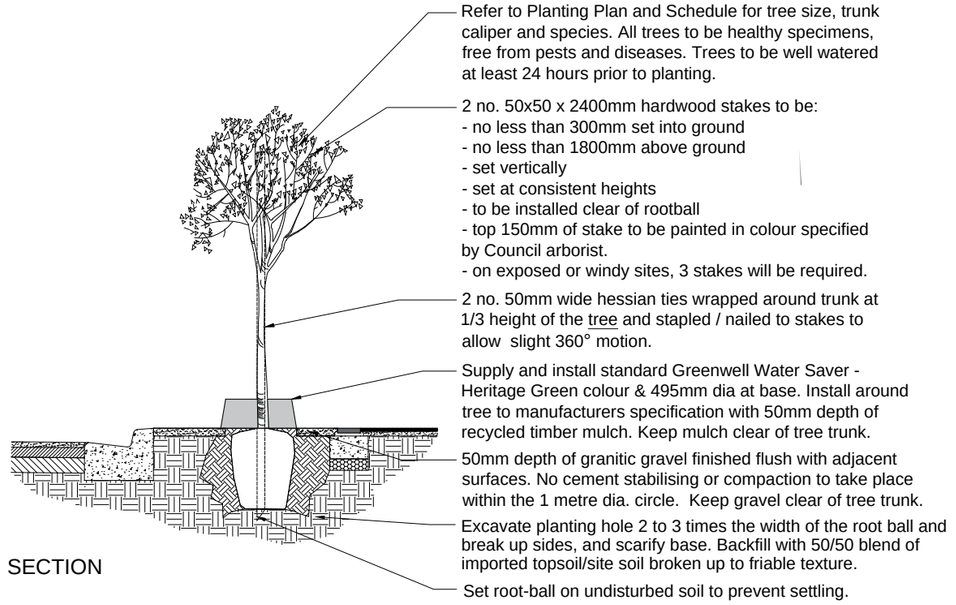
CONSTRUCTION DETAILS



PLAN



DETAIL SECTION



SECTION

Notes:

1. Detail not to scale
2. Indicative only

Tree Planting Bay - Granitic Gravel

DESIGN STATEMENT

The urban gravel tree surround is designed to maximise greening opportunities. This treatment would be typically used in local streets.

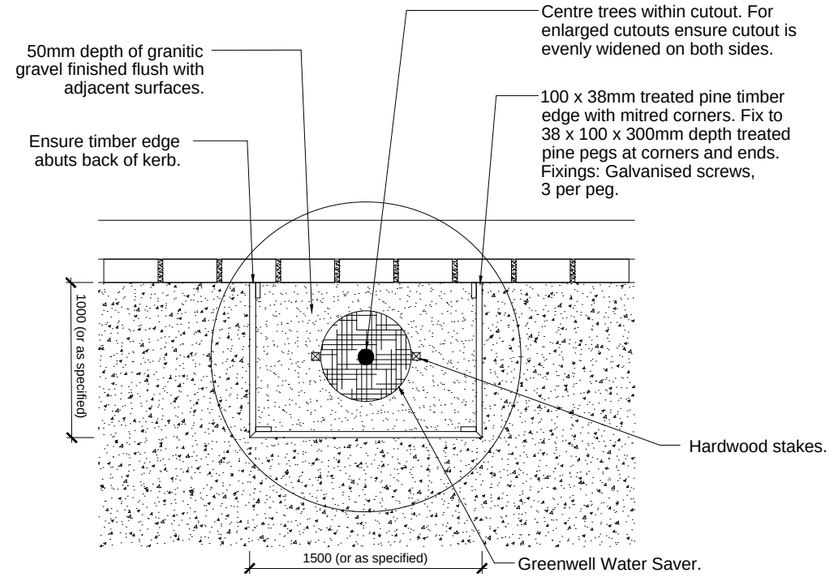
SF 603 applies to:

- Local Activity Centres
- General Municipality
- Heritage Sites

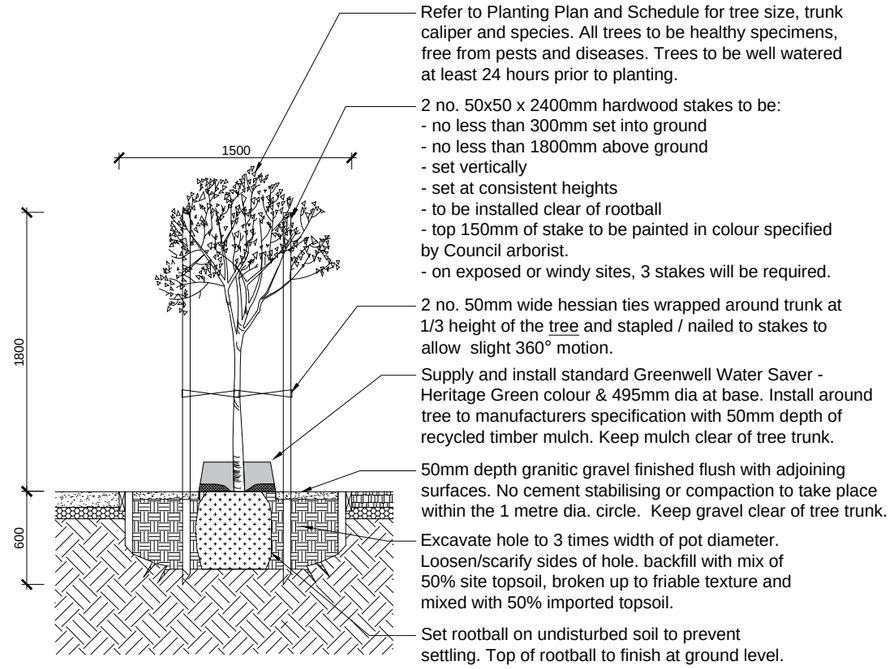
Element	Tree Planting Bay in Granitic Gravel
Materials	• Typical dimensions: 1000mm from back of kerb x 1500mm length • Timber edge: 38x100mm treated pine timber edge • Granitic gravel mulch: 50mm compacted depth • Water well: Greenwell Water Saver - Standard size in Heritage Green colour or similar approved.
Finish	• Granitic gravel mulch to finish flush with timber edge • Timber edge to finish flushed with adjacent paving surfaces.
Installation	• As per construction detail on page 2 • Asphalt and timber edging to be flush to avoid tripping hazard.
Maintenance Tasks	• Clean litter and top up gravel mulch to prevent rutting and depressions
Recommended Use	• As required in the Footscray CAA and all Local Activity Centres
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings. Install as per specifications.

Tree Planting Bay - Granitic Gravel

CONSTRUCTION DETAILS



PLAN



SECTION

Notes:

1. Detail not to scale
2. Indicative only

Tree Planting Bay - On Street

DESIGN STATEMENT

On Street Tree Planting Bay is a street treatment throughout the Footscray Central Area and Local Activity Centres. The design enhances tree coverage along streetscapes without disrupting safe traffic and parking conditions.

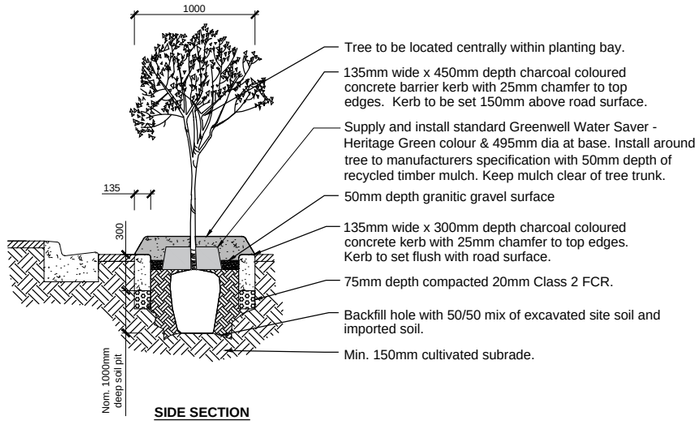
SF 605 applies to:

- Footscray CAA
- Local Activity Centres

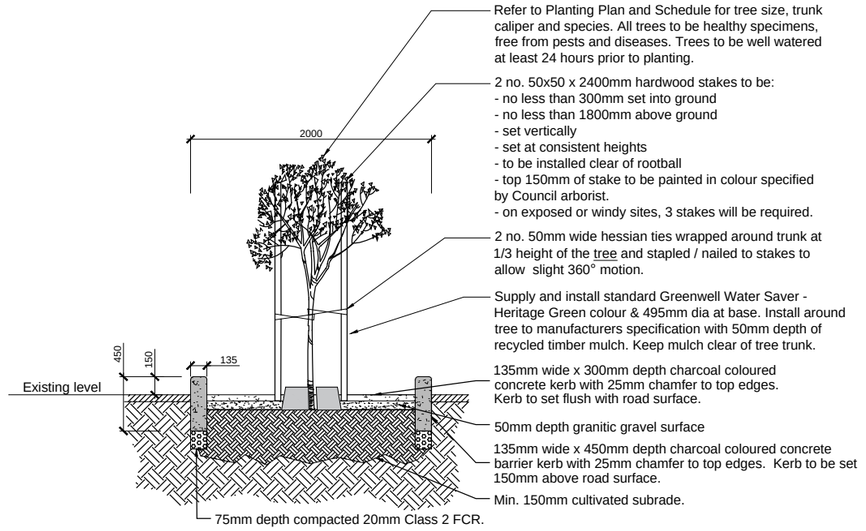
Element	On Street Tree Planting Bay
Materials	• Typical dimension 1000mm x 1500-2000mm • Concrete kerb • Granitic gravel mulch: 50mm depth finished 50mm below road level • Water well: Greenwell Water Saver - Standard size in Heritage Green colour or similar approved
Finish	• Charcoal grey concrete: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council).
Installation	• Width of kerbs (1000mm edges) are wheel stops finishing 150mm above finished levels. Length of kerbs (1500-2000mm edges) are flushed with road base to allow drainage into kerb and channel. • Refer to construction details on page 2.
Maintenance Tasks	• Top up granitic gravel mulch as required
Recommended Use	• As required in the Footscray CAA and Local Activity Areas
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None.
Optional Extra	• None
Comments	Documentation: • Length varies depending on parking bays. Refer to Plan & Specifications.

Tree Planting Bay - On Street

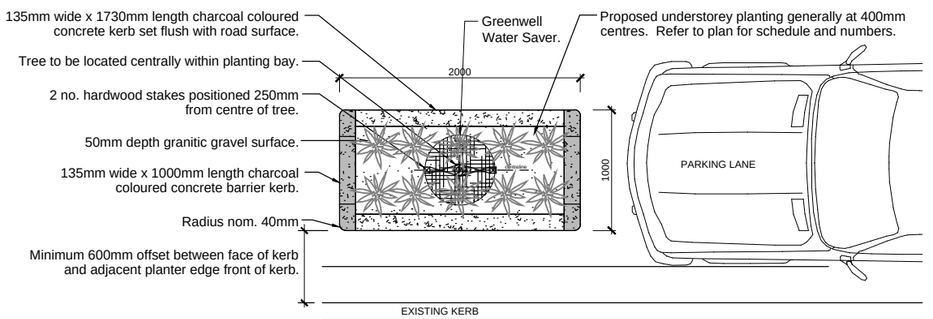
CONSTRUCTION DETAILS



SIDE SECTION



LONG SECTION



PLAN VIEW

Notes:

1. Detail not to scale
2. Indicative only

Signage - Footscray CAA Wayfinding Suite

DESIGN STATEMENT
The Footscray wayfinding suite has been designed to be used within the Footscray Central Area, providing vibrant and easy to interpret directional signage to key destinations in Footscray.

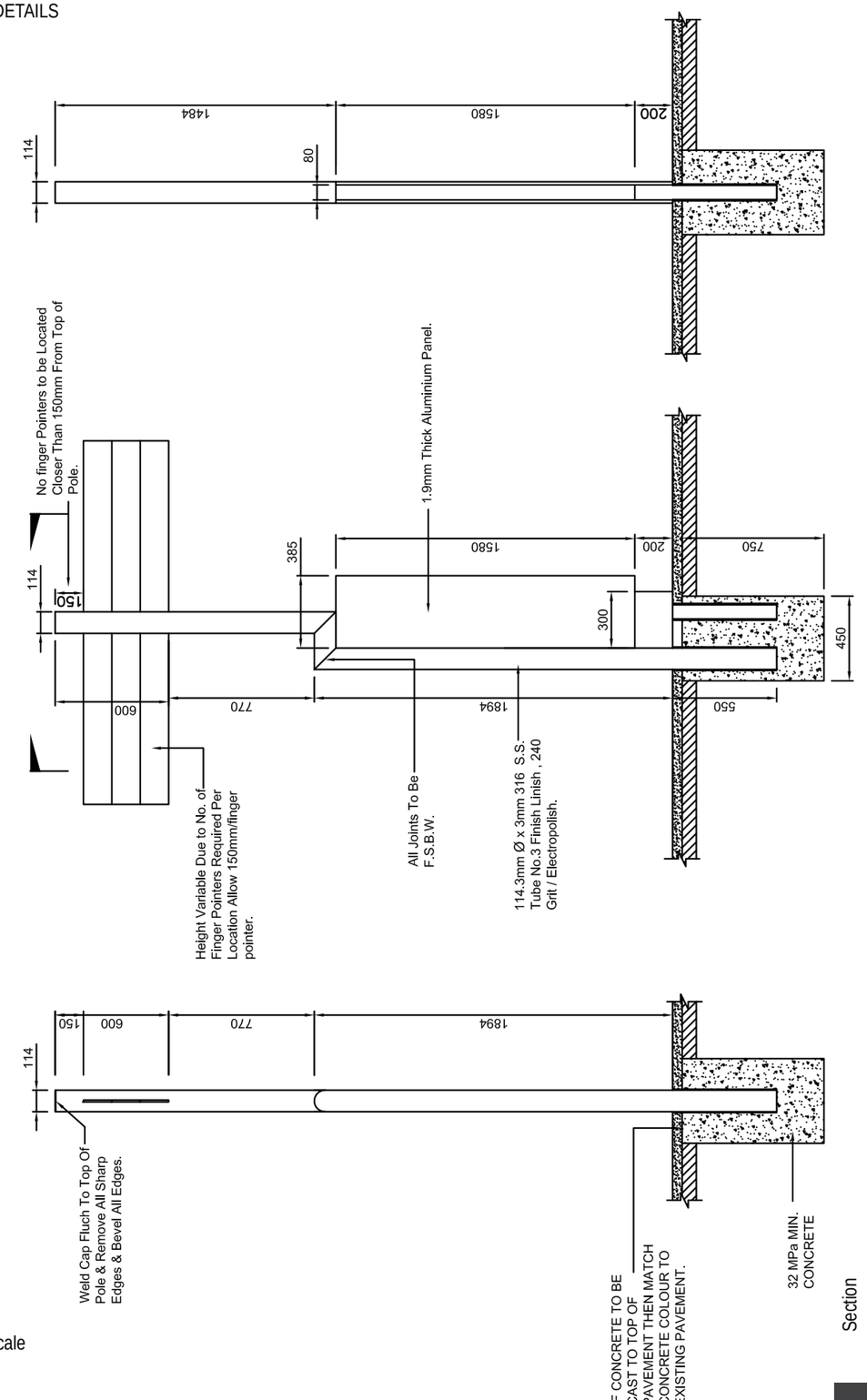
The wayfinding suite is simple yet robust and offers a variety of options to suit many applications.

SF 701 only applies to Footscray CAA.

Element	Footscray Wayfinding Suite Signage
Materials	• Stainless steel tubing, Marine grade 316 • Directional Signage - SDES 150mm with 'SALT' 150mm bracket (by ArtCraft) • Map Panel - 1.99mm Aluminium
Finish	• Stainless steel tubing - Finish, 240 Grit/Electropolish • Directional signage - 2 Pac Paint nom. PMS colour with Avery NV 1300 Reflective film • Map Panel - 2-Pac Paint (nom. PMS colour) with appropriate anti-graffiti removal.
Installation	• Install in concrete footing as per construction details on page 2
Maintenance Tasks	• Clean as required • Remove graffiti with a non toxic product such as Guardian International Citrus or similar.
Recommended Use	• Use throughout Footscray Central Activity Area as required in high use areas.
Supplier	• Council approved supplier or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Refer to Appendix 5 MCC Parks and Gardens Signage Manual for style guidelines • Artwork and Graphics to be approved by Landscape Architect

Signage - Footscray CAA Wayfinding Suite

CONSTRUCTION DETAILS



Section

Notes:
1. Detail not to scale
2. Indicative only

Bus Shelter

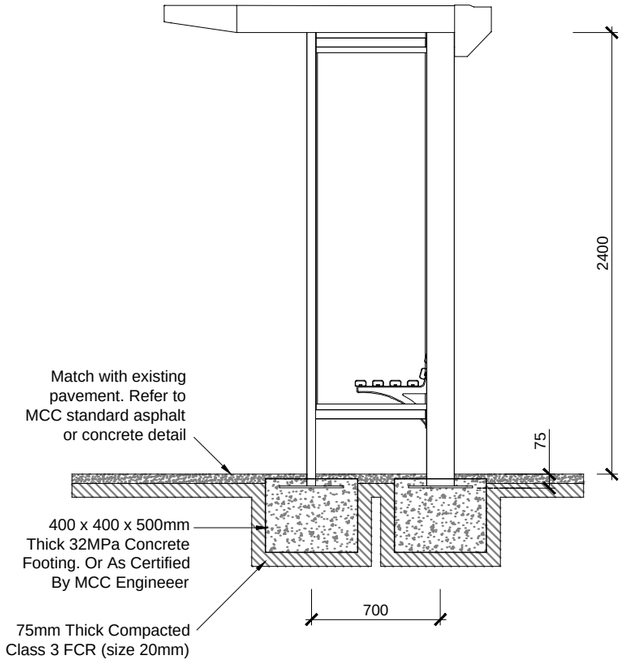
DESIGN STATEMENT
The ‘Metro’ bus shelter is a standard bus shelter to be used through out the Municipality to enable a safe and clean environment for public transport users.

SF 801 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Heritage Sites

Element	Bus Shelter
Materials	• Powdercoated Aluminium Frame & Seat • Colourbond roof. • Toughened safety glass. • LED lighting
Finish	• Powdercoated
Installation	• Installation by supplier is recommended. • Bus shelter must wherever possible be located off the accessible path of travel. • Tactile ground surface indicators are to be installed to pavement around bus shelter in accordance with AS 1428.1. Refer to SF101 for further information on tactile indicators.
Maintenance Tasks	• ‘Maintenance by supplier’ contracts are preferred • Clean as necessary. • Components to be replaced if bent or damaged. • Paint to be touched up when chipped or damaged. Full repainting off site prefer red. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• As required throughout municipality at designated bus stops. Wide and narrow options to be considered on site based on minimum pedestrian access widths
Supplier	• Stoddart Infrastructure Ph: 1300 791 954. Product name: Metro Bus Shelter or approved equivalent
Heritage Comments	• None
Optional extra	• With or without screen pattern
Comments	• Typically installed by Adshel in accordance with MCC/PTV/Adshel maintenance agreement

Bus Shelter

CONSTRUCTION DETAILS



Notes:
1. Detail not to scale
2. Indicative only

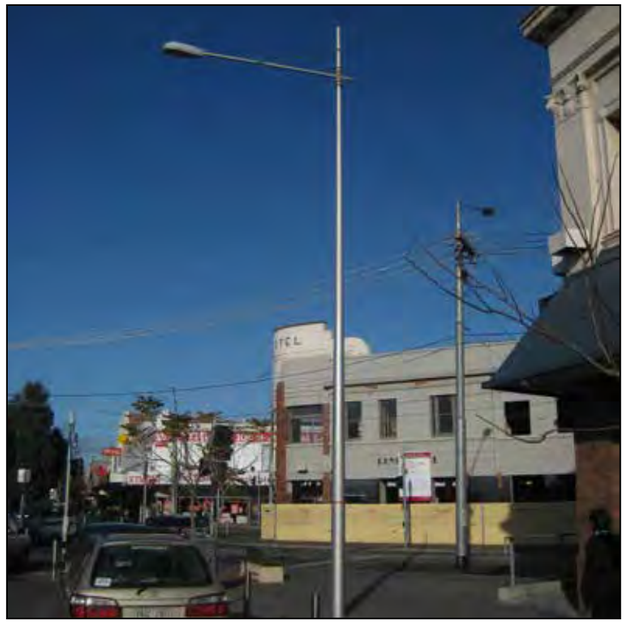
Standard Street Pole- Footscray (Luminaire & Pole)

DESIGN STATEMENT
This light is suitable for pedestrian and road lighting and features an efficient contemporary light fitting on a durable yet elegant tapered steel pole.

This light is designed to compliment Council's furniture suite and is suitable for use in high volume urban areas.

This lighting standard is designed to have a high mounting height to decrease vandalism risk and may be fitted with an energy saving lamp.

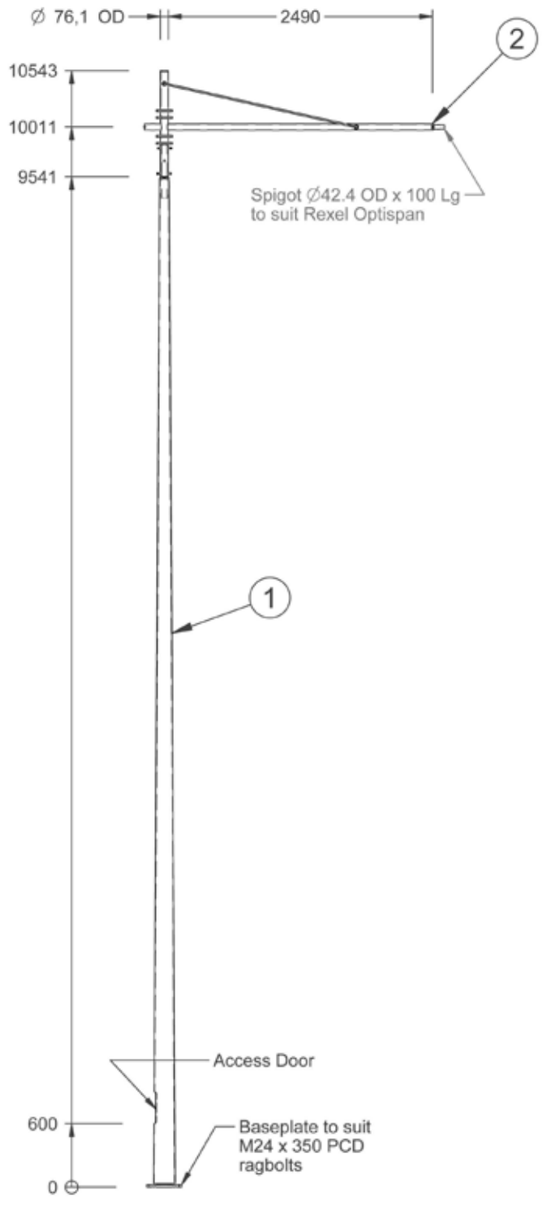
SF 901 only applies to the Footscray CAA.



Element	Footscray Street Light (Luminaire &Pole)
Materials	• Luminarie – Optispan Aeroscreen, or Greenstreet • Pole – Mild Steel
Finish	• Sparkling Aluminium, 2 pack paint.
Installation	• Installation of all electrical items shall be performed by a licensed electrician. • All lighting must be supplied with an electrician's Certificate of Electrical Safety upon completion of installation. • Footing design to engineer's detail. • Refer to construction details on page 2.
Maintenance Tasks	• Jemena - Luminaire maintenance and lamp replacement • Council - Pole maintenance and replacement
Recommended Use	• High volume pedestrian urban areas and roads in the Footscray CAA.
Supplier	• Luminaire - various suppliers including Rexel, Sylvania, Pierlite, Streetworx • Pole King St - VicPole (03) 8761 2703, or approved equivalent
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings. Install as per construction details. All questions should be clarified with Council prior to commencing works. • Lower level pedestrian lights maybe required in some locations. Pedestrian light to be attached to same pole. • Refer to VicPole Street Lighting Pole details.

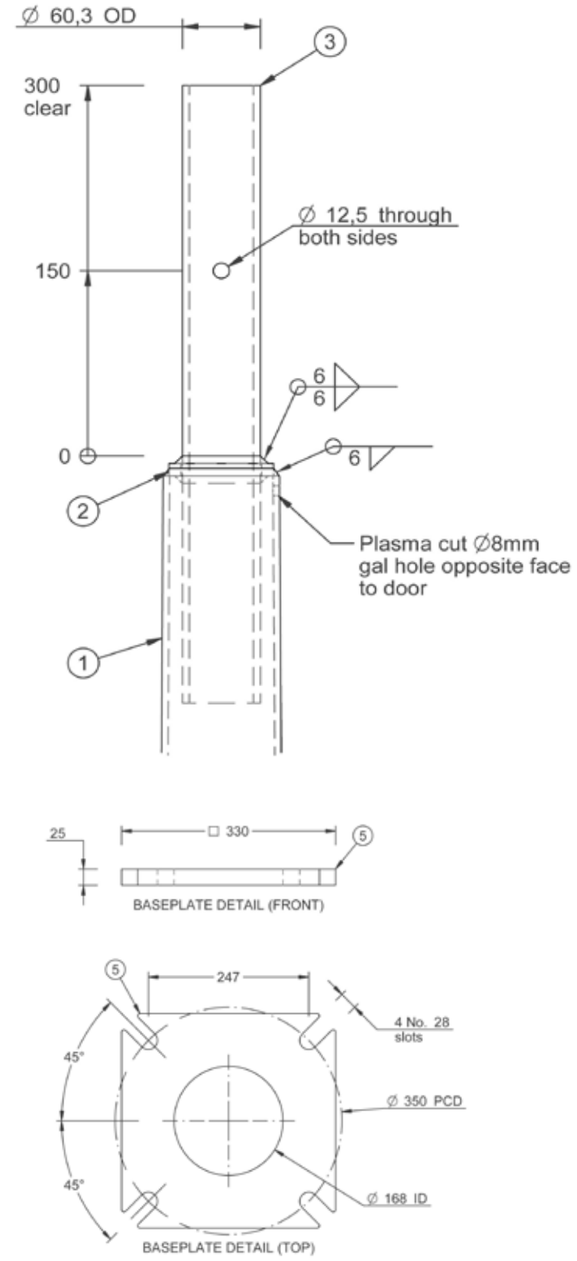
Standard Local Street Pole - Footscray

POLE CONSTRUCTION DETAILS



Section

Notes:
1. Detail not to scale
2. Indicative only



NOTES: –
1. LOCATION AND SIZE OF ANY POWER SUPPLY CONDUIT TO LIGHT POLE THROUGH THE FOOTING IS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
2. LIGHT POLE, BASE PLATE, RAG BOLT ASSEMBLY AS SPECIFIED BY LIGHT POLE MANUFACTURER.
3. IF THE SURFACE IS A CONCRETE FINISH THEN THE CONCRETE ENCASEMENT WHICH IF TAKEN TO SURFACE LEVEL THEN MATCH THE COLOUR TO THE EXISTING PAVEMENT.

Section 3
Local Activity Centres & Wider Municipality

3.1 Local Activity Centres & Wider Municipality Streetscape Palette.

Urban and streetscape areas outside the Footscray Central Area are proposed to have a single consolidated suite of streetscape furniture treatments and elements. This includes the urban areas and strip shopping centres of Seddon, Yarraville, Brooklyn, Tottenham, West Footscray, Maidstone, Maribyrnong and Braybrook (refer site map below).

Currently a number of these centres, particularly the 'Villages' of Seddon and Yarraville, have a distinct suite of individual pieces of custom furniture. Whilst elements within these suites remain functional and safe, it is proposed that they be maintained but gradually phased out and replaced with the current standard suite. This could be carried out either as part of a streetscape improvement project or a strategically implemented general furniture upgrade.

The general suite includes a simple range of durable and robust urban furniture comprising largely galvanised steel elements with some stainless steel. The elements selected for this suite are largely durable, low maintenance and unobtrusive. By not making a feature of street furniture, the intention is that they fit into a wide range of situations and locations thereby providing greater continuity and consistency across the municipality.

The selection of other urban treatments (such as raised pavements crossings, splitter islands etc.) should be determined based on assessment of need. In relation to the selection of heritage elements, consideration of heritage overlays and impacts should be made during an assessment of the site and project requirements (refer section 1.7).

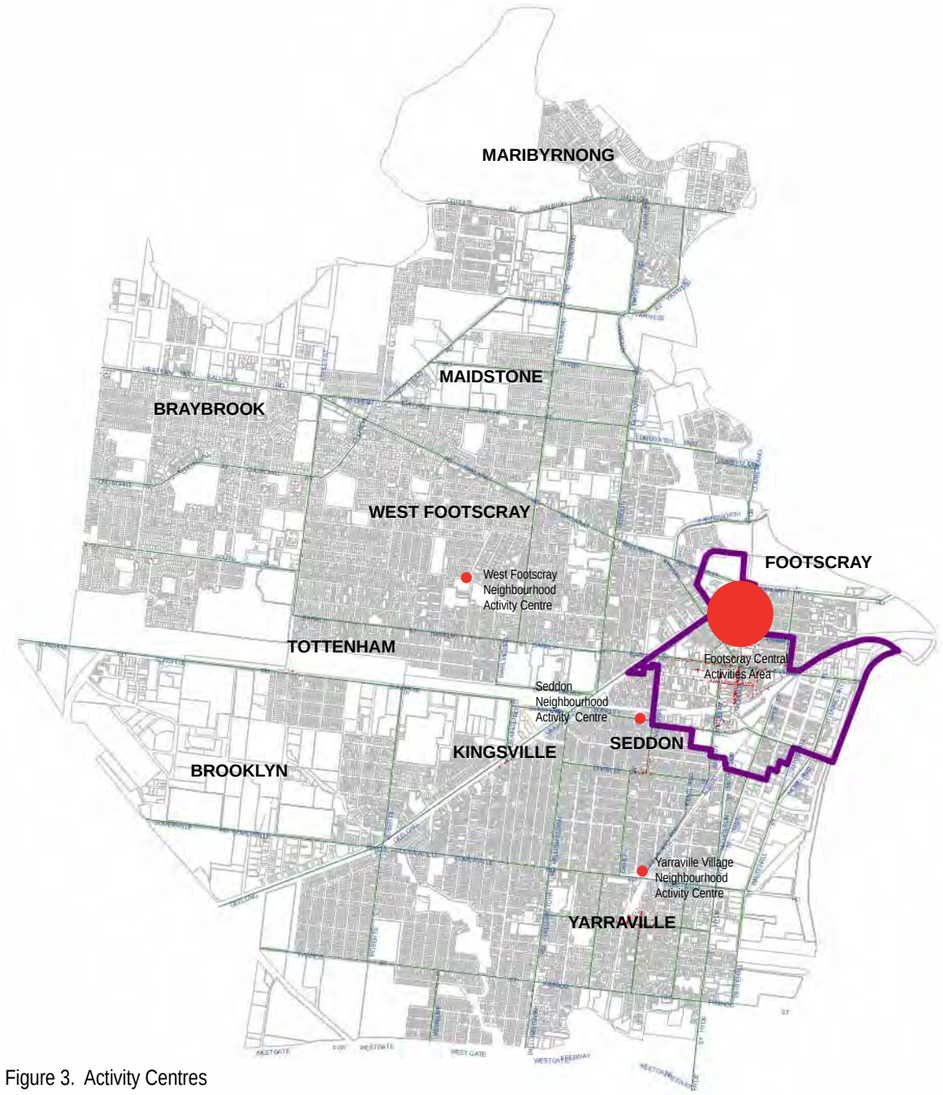


Figure 3. Activity Centres

SF 001
Vehicular Crossing
Residential

SF 002
Vehicular Crossing
Commercial
Council Access

SF 003
Pram Crossing

SF 004
Kerb
Coloured concrete kerb
and channel

SF 005
Kerb
Coloured concrete
barrier kerb

SF 006
Kerb
Bluestone pitcher kerb
and channel

SF 007
Kerb
Bluestone pitcher kerb
and coloured concrete
channel

SF 009
Kerb
Mountable and semi
mountable treatments

SF 010
Footpath
Asphalt pavement

SF 011
Footpath
Concrete Pavement

SF 012
Pavement
Sawn bluestone kerb
extension spoon drain

SF 013
Pavement
Sawn bluestone banding in
asphalt pavement

SF 102
Tactile Indicator
White plastic

SF 201
Streetscape Seat

SF 202
Streetscape Bench

SF 204
Drinking Fountain
Stainless Steel

SF 301
Bin
120 Litre General Litter
Receptacle

SF 302
Bin
240 Litre General Litter
Receptacle

SF 303
Bin
120 Litre Recycle
Receptacle

SF 304
Bin
240 Litre Recycle
Receptacle

SF 402
Bike Hoop
Stainless steel hoop

Local Activity Centres Palette

SF 502
Bollard
Traffic Management

SF 503
Barrier Fencing
Pedestrian Barrier Fence

SF 603
Tree Planting Bay
Granitic gravel with
bluestone edging

SF 604
Tree Planting Bay
Median planting

SF 605
Tree Planting
in Naturestrips

SF 606
Tree Planting
in Naturestrips

SF 801
Bus Shelter

Local Street Lighting

SF902
Standard Local Street Pole
'Luminaire'

SF903
Standard Local Street Pole
'Tandara'

SF904
Standard Local Street Pole
'Lincoln'

SF905
Standard Local Street Pole
'Waterford/Waterside'

SF906
Standard Local Street Pole
'Powercor'

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Vehicular Crossing - Residential

DESIGN STATEMENT
The standard Residential Vehicular Crossing detail for Maribyrnong City Council should be used throughout the Municipality.

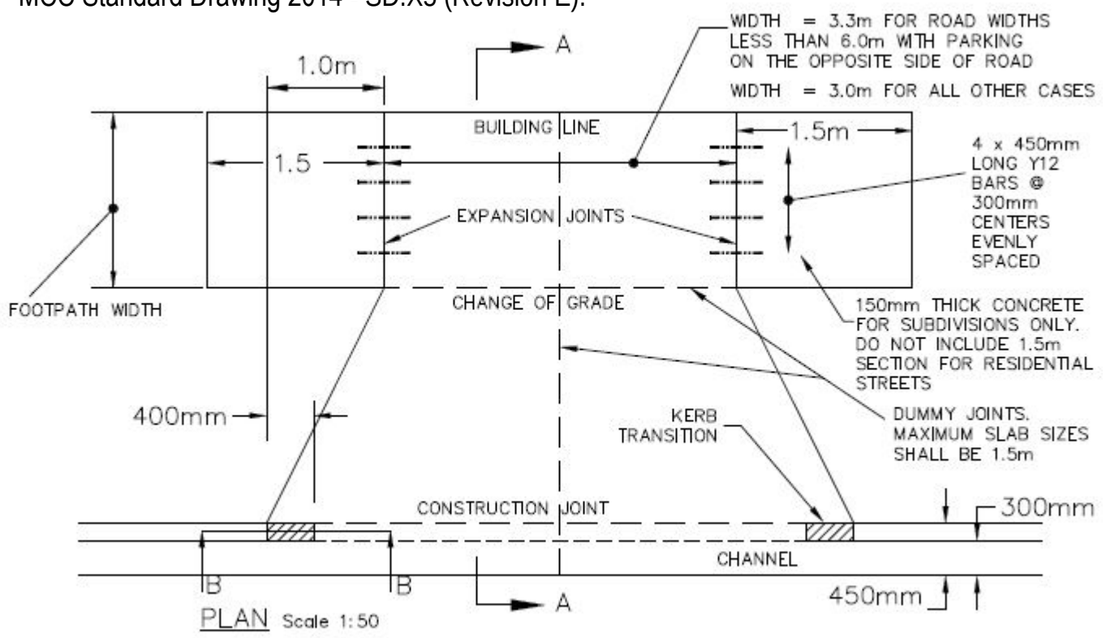
SF 001 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Heritage Sites

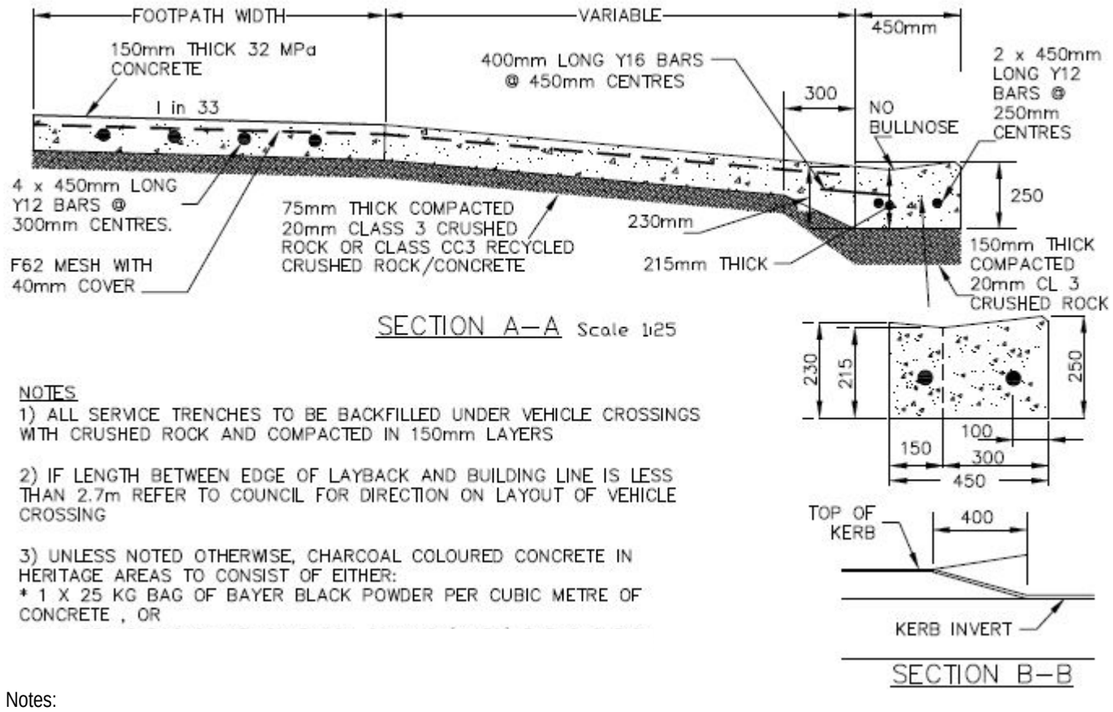
Element	Vehicular Crossing - Residential
Materials	• 150mm depth 32Mpa concrete with SL62 reinforcing. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth Class 3 crushed rock base
Finish	• Brushed concrete finish
Installation	• To Maribyrnong City Council Standard Working Drawings SD.X5 (Rev E).
Maintenance	• Responsibilty of property owner unless works undertaken by an external third party.
Recommended Use	• To be used throughout the municipality for access to residential property.
Supplier	• None specified.
Heritage Comments	• This detail may vary according to heritage area. Refer to heritage overlay for more detail.
Optional Extra	• None
Comments	• Install as per MCC Standard Working Drawings 2015- 2016 SD.X5 (Revision E) • Cross reference with site layout drawings.

Vehicular Crossing - Residential

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.X5 (Revision E).





NOTES
1) ALL SERVICE TRENCHES TO BE BACKFILLED UNDER VEHICLE CROSSINGS WITH CRUSHED ROCK AND COMPACTED IN 150mm LAYERS

2) IF LENGTH BETWEEN EDGE OF LAYBACK AND BUILDING LINE IS LESS THAN 2.7m REFER TO COUNCIL FOR DIRECTION ON LAYOUT OF VEHICLE CROSSING

3) UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:
* 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE , OR

Notes:
1. Detail not to scale
2. Indicative only

Vehicular Crossing - Commercial & Council Access

DESIGN STATEMENT

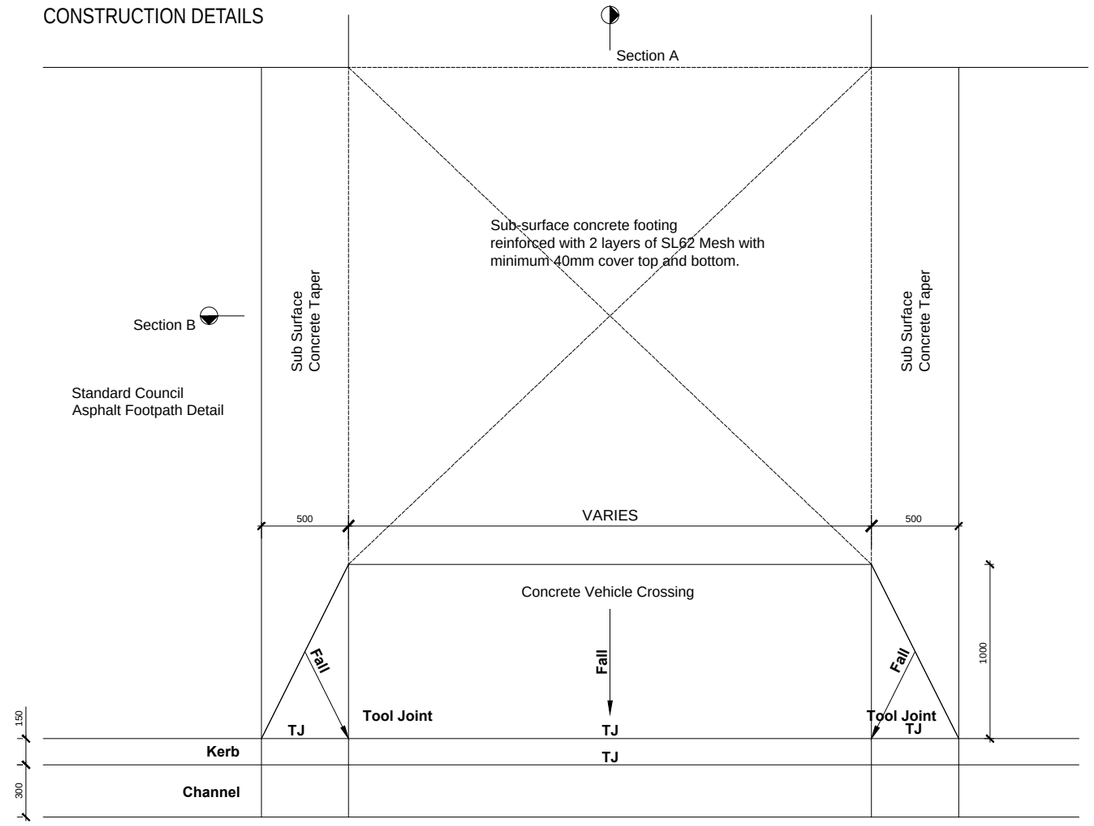
To be used across the Municipality where heavy goods are delivered. The crossing is reinforced with a subbase of concrete which is designed to withstand trucks and other large vehicles.

SF 002 applies to:
- Footscray CAA
- Local Activity Centres

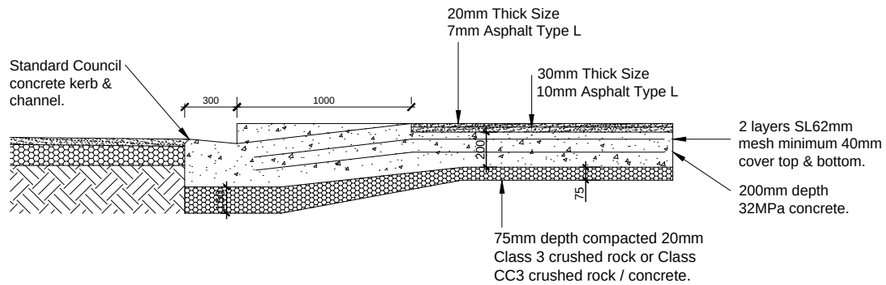
Element	Commercial Vehicle Crossing
Materials	• 200mm SL62 reinforced (2 layers) 32Mpa concrete. • 75mm class 3 crushed rock base. • Asphalt Footpath • Sawn bluestone kerb for Footscray CAA • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council).
Finish	• Brushed concrete - transition, trowelled concrete to extension of kerb.
Installation	• Refer to construction detail on page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Throughout all industrial streets, urban areas, delivery zones and access to Activity Centres.
Supplier	• None specified.
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings.

Vehicular Crossing - Commercial & Council Access

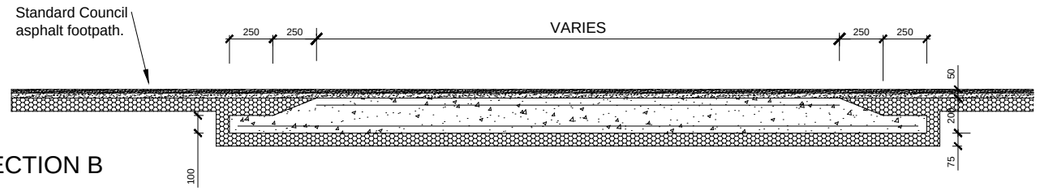
CONSTRUCTION DETAILS



PLAN



SECTION A



SECTION B

Notes:
1. Detail not to scale
2. Indicative only

Pram Crossing

DESIGN STATEMENT

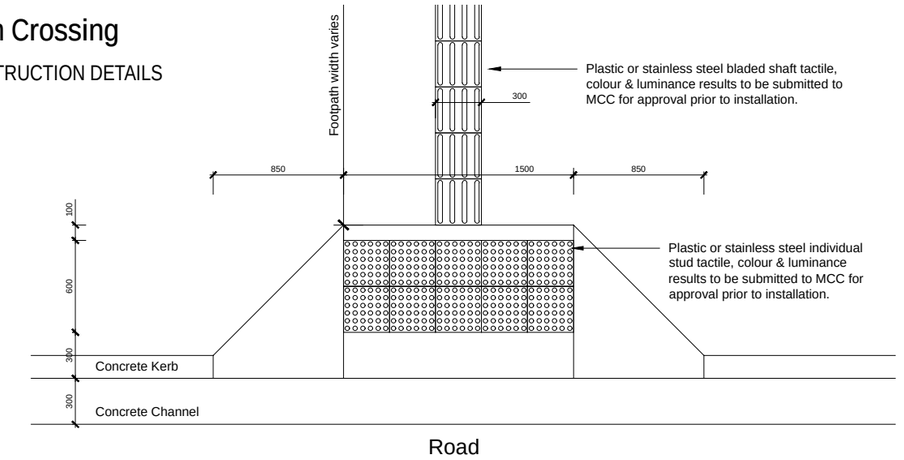
This is the standard pram crossing detail for Maribyrnong City Council. The pram crossing is to be used throughout all areas of the Municipality.

SF 003 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

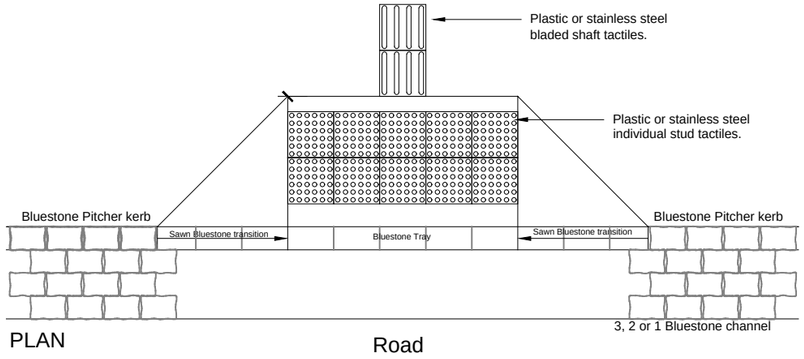
Element	Pram Crossing
Materials	• Asphalt ramp, or • 25 Mpa coloured concrete ramp specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • Sawn bluestone ramp • 75mm depth class 3 crushed rock base.
Finish	• Asphalt, or • Trowelled charcoal concrete kerb • Sawn bluestone kerb for Footscray CAA
Installation	• To construction detail • Maximum 1:10 grade
Maintenance Tasks	• Repair as required
Recommended Use	• Throughtout all street and urban areas: • Commercial zoned areas of Footscray CAA and Local Activity Centres - asphalt • All other areas - concrete
Supplier	• None specified.
Heritage Comments	• Refer to Gamon Street, Seddon as an example of detail within heritage areas
Optional Extra	• None
Comments	• None

Pram Crossing

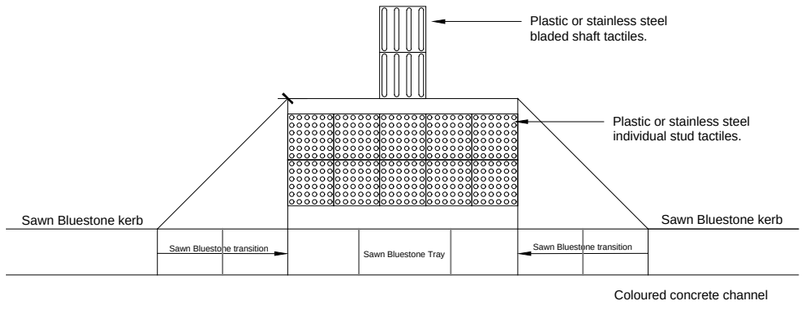
CONSTRUCTION DETAILS



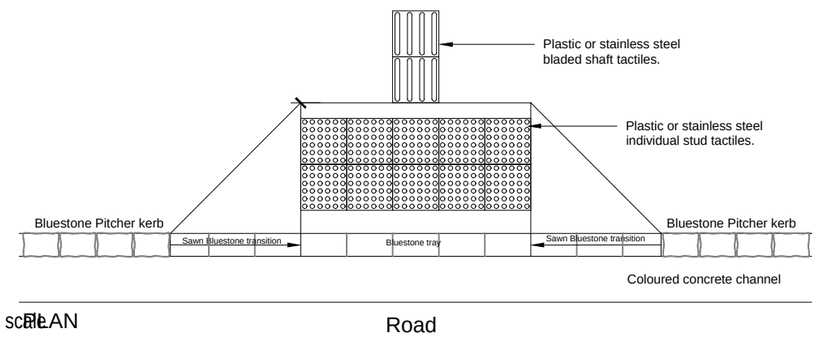
PLAN



PLAN



PLAN



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Kerb - Concrete Kerb & Channel

DESIGN STATEMENT
The concrete kerb and channel is the standard kerb installation throughout the municipality except in heritage zones and the Footscray CAA zone bluestone sawn or pitcher kerbs can apply.

Where new works are being constructed or where kerbs are being replaced this detail should be used.

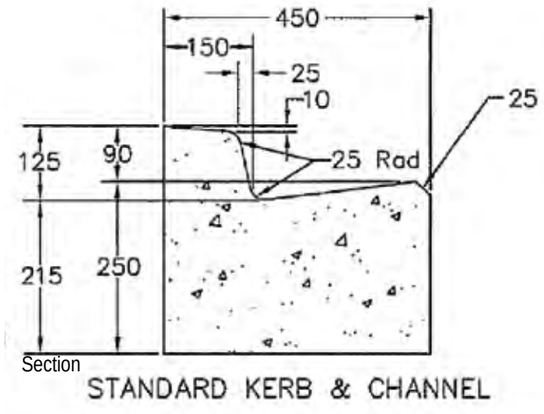
SF 004 applies to:
- Local Activity Centres
- General Municipality

Element	Concrete Kerb and Channel
Materials	• 32 Mpa concrete. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 150mm depth 20mm Class 2 FCR.
Finish	• Trowelled charcoal concrete finish.
Installation	• To Maribyrnong City Council Standard Working Drawings SD.K3A
Maintenance Tasks	• Repair as required.
Recommended Use	• Throughout all local streets and kerb extensions except where bluestone applies.
Supplier	• None specified.
Heritage Comments	• None
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings. • Install as per MCC Standard Drawing 2014 - SD.K3 (Revision B)

Kerb - Concrete Kerb & Channel

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.K3 (Revision B)



NOTES:

1. All concrete to be 32 MPa.
2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.
3. All grouted joints to be average 30mm wide by depth of pitcher. Flush joint finish only.
4. Grouting shall be pointed up with charcoal coloured cement mortar.
5. Cement mortar shall consist of: 1 part Bayern powder, 5 parts cement, 15 parts sand or approved grit, 15 parts stone dust.

Notes:
1. Detail not to scale
2. Indicative only

Kerb - Concrete Barrier Kerb

DESIGN STATEMENT

The concrete barrier kerb is a standard kerb detail to be installed throughout the Municipality to prevent cars mounting the kerb such as nominated traffic islands and at the high side of areas where road pavements fall one way.

This detail can also be used for median constructions.

SF 005 applies to:

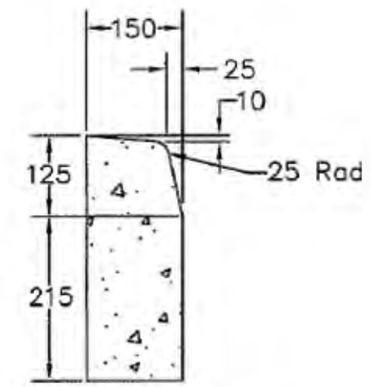
- Local Activity Centres
- General Municipality

Element	Concrete Barrier Kerb
Materials	• 32 Mpa concrete. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 150mm depth 20mm Class 2 FCR.
Finish	• Standard concrete finish.
Installation	• To Maribyrnong City Council Standard Working Drawings 2014 - SD.K4B.
Maintenance Tasks	• Repair as required.
Recommended Use	• In streets including central medians, kerb extensions and tree islands except where bluestone applies.
Supplier	• None specified.
Heritage Comments	• None
Optional Extra	• None
Comments	Documentation • Cross reference with site layout drawings. • Install as per MCC Standard Drawing 2014 - SD.K4 (Revision C)

Kerb - Concrete Barrier Kerb

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.K4 (Revision C)



Section

BARRIER KERB

NOTES:

1. All concrete to be 32 MPa.
2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.

Notes:

1. Detail not to scale
2. Indicative only

Kerb - Bluestone Pitcher Kerb & Channel

DESIGN STATEMENT
Bluestone kerb and channel has traditionally been used in the original township areas of the municipality.

The use of the bluestone kerb and channel is a traditional heritage element that contributes to the streetscape character of areas such as Yarraville, Seddon, West Footscray and Footscray.

Where bluestone kerbs and channel exist in a heritage overlay area, the kerb and channel shall be fully reinstated if repair or reconstruction is required.

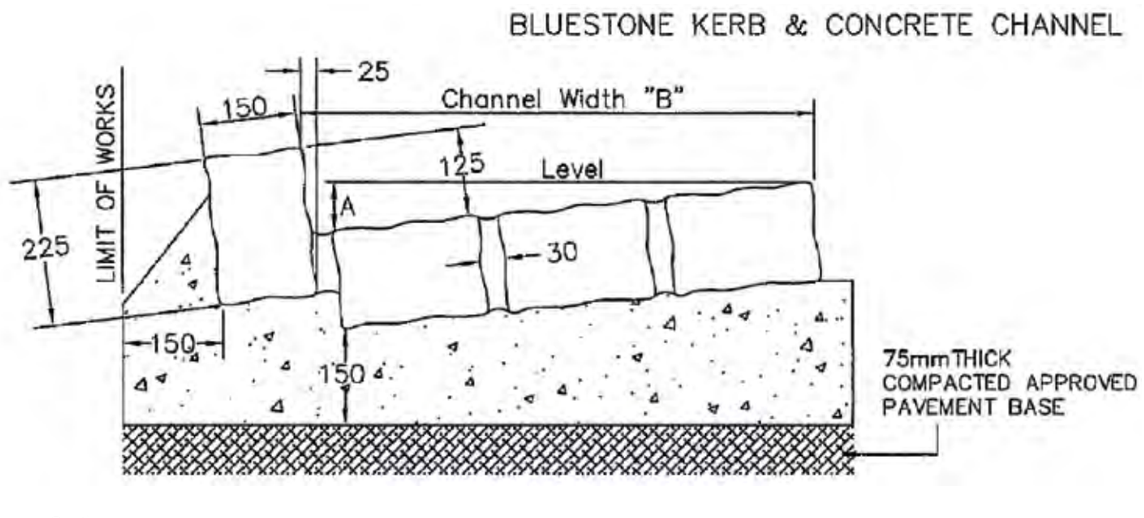
SF 006 only applies to Heritage Areas.

Element	Bluestone Pitcher Kerb and Channel
Materials	• Typical 150x225mm bluestone pitcher with cross falls from approved quarries • 32 Mpa grey concrete base on • 150mm depth 20mm Class 2 FCR. • All grouted joints to be minimum 30mm wide, by depth of pitcher.
Finish	• Cobble with the flattest side facing up
Installation	• To Maribyrnong City Council Standard Working Drawings SD.K3
Maintenance Tasks	• Repair and reinstall to match existing as required.
Recommended Use	• Throughout streets where heritage overlays apply and where Council/Residents determine this treatment acceptable.
Supplier	• Bamstone Port Fairy Bluestone • Victorian Bluestone Quarries or approved equivalent
Heritage Comments	• Where heritage overlay controls apply, replace with original bluestone. Changes may require a planning permit from Council if the total cost of works are over $1M. Refer Design Principles & Considerations. • If existing condition is approx 50% concrete and 50% bluestone, conduct community consultation to resolve preferred replacement material.
Optional Extra	• None
Comments	• Documentation: Cross reference with site layout drawings. • Install as per MCC Standard Drawing 2014 - SD.K5 (Revision C)

Kerb - Bluestone Pitcher Kerb & Channel

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.K3 (Revision C)



Section

NOTES:

1. All concrete to be 32 MPa.
2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.
3. All grouted joints to be average 30mm wide by depth of pitcher. Flush joint finish only.
4. Grouting shall be pointed up with charcoal coloured cement mortar.
5. Cement mortar shall consist of: 1 part Bayern powder, 5 parts cement, 15 parts sand or approved grit, 15 parts stone dust.

Notes:
1. Detail not to scale
2. Indicative only

Kerb - Bluestone Kerb & Concrete Channel

DESIGN STATEMENT
Bluestone pitcher kerb and concrete channel been used in various areas in residential precincts within the municipality.

The treatment should only be used to replace existing installations.

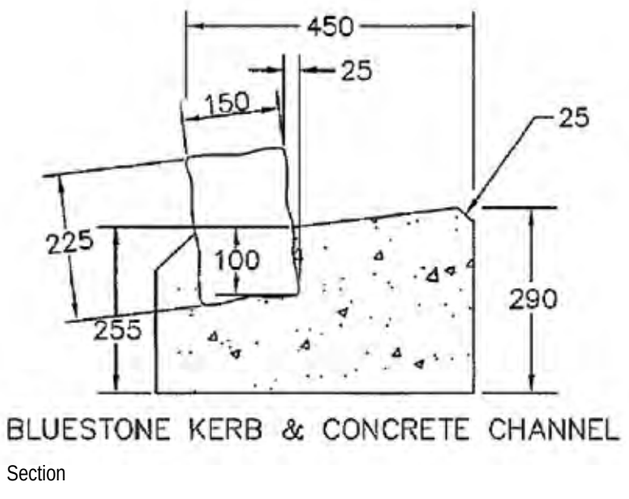
SF007 applies to:
- Local Activity Centres
- General Municipality

Element	Bluestone Pitcher Kerb and Charcoal Concrete Channel
Materials	• 150mm x 225mm local Victorian bluestone pitcher • 32MPa coloured concrete channel • Charcoal grey concrete channel: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 150mm depth 20mm Class 2 FCR Base
Finish	• Trowelled finished to concrete kerb
Installation	• To Maribyrnong City Council Standard Working Drawings SD.K3
Maintenance Tasks	• Repair and reinstall to match existing as required.
Recommended Use	• As required to replace existing bluestone kerb throughout MCC and to be considered for streets with minimal fall. • Not to be used in traffic islands.
Supplier	• Bamstone Port Fairy Bluestone • Victorian Bluestone Quarries or approved equivalent
Heritage Comments	• None
Optional Extra	• Pre-cast coloured concrete channel
Comments	• Documentation: Cross reference with site layout drawings. • Install as per MCC Standard Drawings 2014 - SD.K3

Kerb - Bluestone Pitcher & Concrete Channel

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.K3



BLUESTONE KERB & CONCRETE CHANNEL
Section

NOTES:

1. All concrete to be 32 MPa.
2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.
3. All grouted joints to be average 30mm wide by depth of pitcher. Flush joint finish only.
4. Grouting shall be pointed up with charcoal coloured cement mortar.
5. Cement mortar shall consist of: 1 part Bayern powder, 5 parts cement, 15 parts sand or approved grit, 15 parts stone dust.

Notes:
1. Detail not to scale
2. Indicative only

Kerb - Mountable & Semi Mountable Concrete Kerb

DESIGN STATEMENT
Mountable kerb extension treatments are to be used within all kerb extensions throughout the municipality including traffic islands, roundabouts and other kerb extensions.

Treatments vary according to specific application conditions.

SF 009 applies to:
- Local Activity Centres
- General Municipality

Semi Mountable

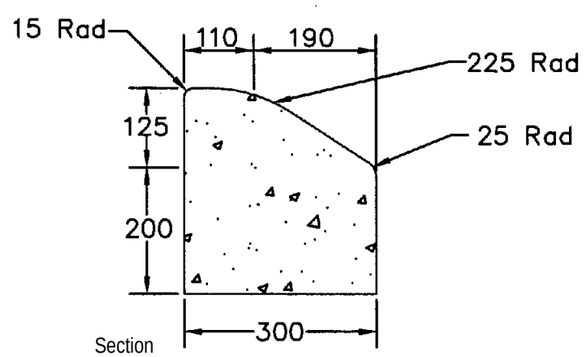
Mountable

Element	Mountable and Semi Mountable Concrete Kerb
Materials	• 300mm wide 32Mpa colour concrete kerb • Coloured concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 150mm depth 20mm Class 2 FCR base
Finish	• Trowelled charcoal coloured concrete.
Installation	• To Maribyrnong City Council Standard Working Drawings 2014 SD.K4
Maintenance Tasks	• Replace as necessary.
Recommended Use	• Mountable treatments for medians or roundabouts. • Semi Mountable treatments for roundabouts and splitter islands
Supplier	• None specified.
Heritage Comments	• None
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings prior to installation as conditions may vary with regard to treatments. • Install as per MCC Standard Drawing 2012 - SD.K4

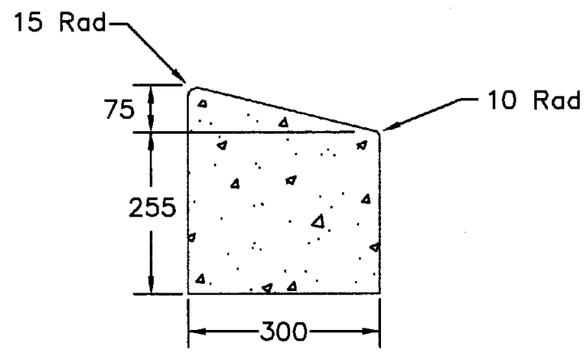
Kerb - Mountable & Semi Mountable Concrete Kerb

CONSTRUCTION DETAILS

MCC Standard Drawing 2014 - SD.K4



Section
SEMI–MOUNTABLE KERB



FULLY – MOUNTABLE KERB

NOTES:

1. All concrete to be 32 MPa.
2. All concrete kerbs & channels to be constructed on a 150mm thick layer of 20mm Class 2 FCR, unless otherwise indicated on design drawings or as directed by Council's Infrastructure Planning and Construction representatives.

Notes:
1. Detail not to scale
2. Indicative only

Footpath - Asphalt Pavement

DESIGN STATEMENT
Asphalt footpaths are used throughout most areas of the Municipality. All existing areas should be retained and reinstated as asphalt paving.

All new footpaths should match into the existing material conditions, unless stipulated otherwise by Council.

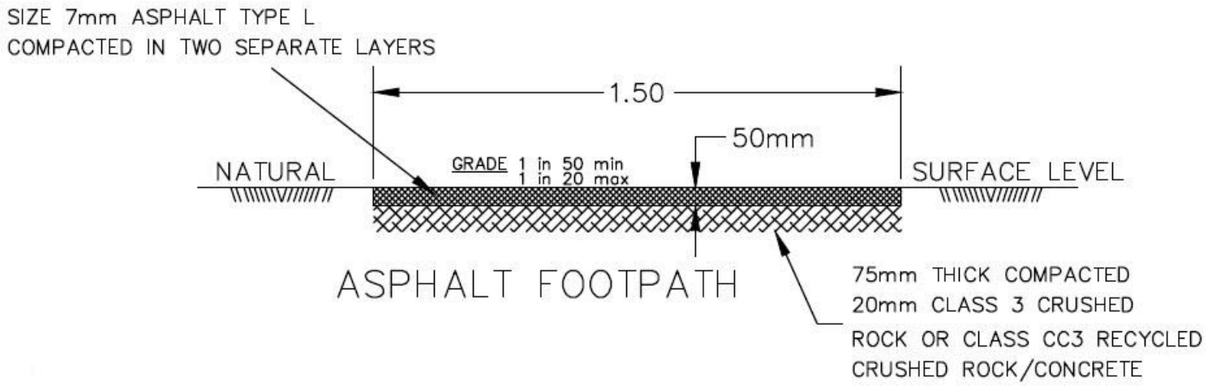
SF 010 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

Element	Footpath - Asphalt Pavement
Materials	• Asphalt - Size 7 mm Type L, two layers • 75mm depth Class 3 crushed rock base.
Finish	• Smooth continuous asphalt finish with minimal joins
Installation	• To Maribyrnong City Council Standard Working Drawings 2015 SD.X10
Maintenance Tasks	• Replace as necessary.
Recommended Use	• Within all existing asphalt footpaths and any new developments where approved by Council
Supplier	• None specified
Heritage Comments	• None
Optional Extra	• None
Comments	• Documentation: Cross reference with site layout drawings. • Install as per MCC Standard Drawing May 2015 - SD.X10 (Revision D)

Footpath - Asphalt Pavement

CONSTRUCTION DETAILS

MCC Standard Drawing - May 2015 - SD. X10 (Revision D)



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Footpath - Concrete Pavement

DESIGN STATEMENT
Concrete footpaths are used within Braybrook and some other areas of the Municipality. All existing areas should be retained and reinstated as concrete paving.

All new footpaths should match into the existing material conditions, unless stipulated otherwise by Council.

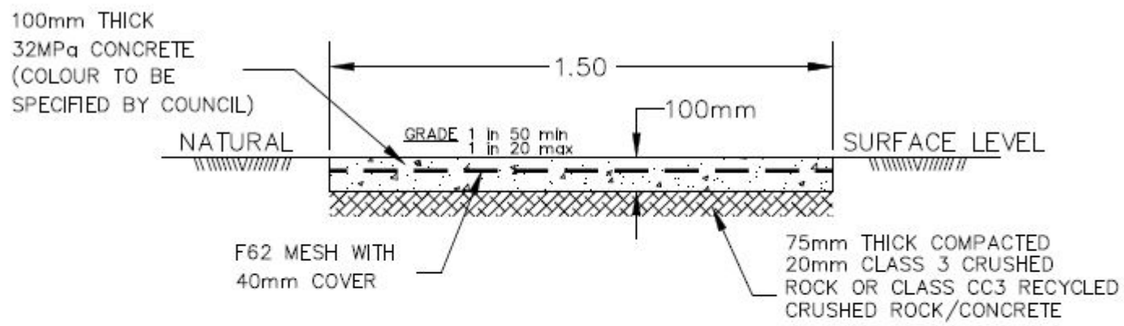
SF 011 applies to:
- Local Activity Centres
- General Municipality

Element	Footpath - Concrete Pavement
Materials	• 100mm depth 32MPa reinforced coloured or grey concrete • Coloured concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth Class 3 crushed rock base.
Finish	• Broom finish: plain concrete or coloured concrete.
Installation	• To Maribyrnong City Council Standard Working Drawings 2015 SD.X10
Maintenance Tasks	• Replace as necessary.
Recommended Use	• Within all existing concrete footpaths
Supplier	• Installed insitu or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Documentation: Cross reference with site layout drawings. • Install as per MCC Standard Drawing 2015 - SD.X10 (Revision D)

Footpath - Concrete Pavement

CONSTRUCTION DETAILS

MCC Standard Drawing 2015 - SD.X10 (Revision D)



REINFORCED CONCRETE FOOTPATH

UNLESS NOTED OTHERWISE, CHARCOAL COLOURED CONCRETE IN HERITAGE AREAS TO CONSIST OF EITHER:
* 1 X 25 KG BAG OF BAYER BLACK POWDER PER CUBIC METRE OF CONCRETE , OR
* 1 X 25 KG BAG OF ABILOX BLACK CAF-X2 (4.15%) PER 2 CUBIC METRES OF CONCRETE.

Notes:
1. Detail not to scale
2. Indicative only

Pavement - Sawn Bluestone Spoon Drain

DESIGN STATEMENT

Sawn bluestone is proposed to define the edge between the existing footpath and a kerb outstand.

This detail is designed to act as a spoon drain to allow excess water to be discharged line spacing into the closest storm water drainage pit.

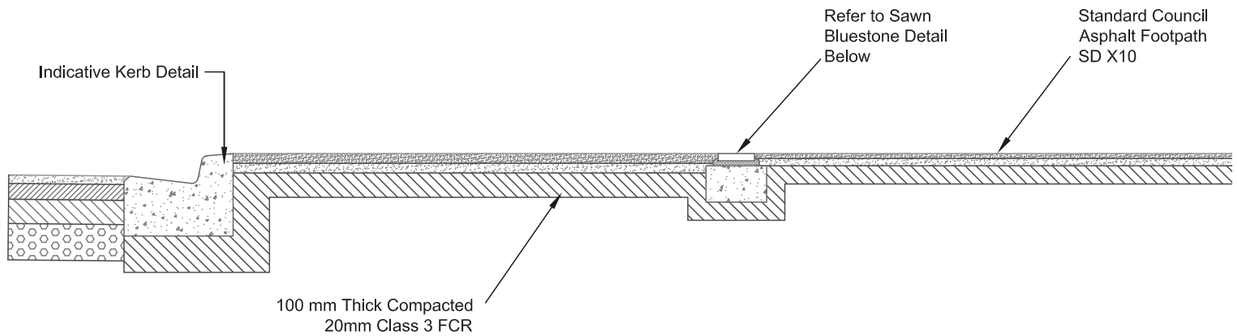
SF 012 applies to:
- Footscray Central Area
- Local Activity Centres

Element	Sawn Bluestone Kerb Extension Spoon Drain
Materials	• Sawn bluestone paver 300L x 150W x 40Dmm • 150x250mm 32 MPa concrete slab • 75mm depth Class 3 crushed rock base. • 20mm wet mortar bed 50/50 sand/cement
Finish	• Fall towards kerb or drainage pit • 5mm grout joints
Installation	• Refer to detailed drawings
Maintenance Tasks	• Repair as necessary
Recommended Use	• Within all new and renewed kerb outstands
Supplier	• Bamstone Port Fairy Bluestone • Victorian Bluestone Quarries or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings prior to installation as conditions may vary with regard to dimensions

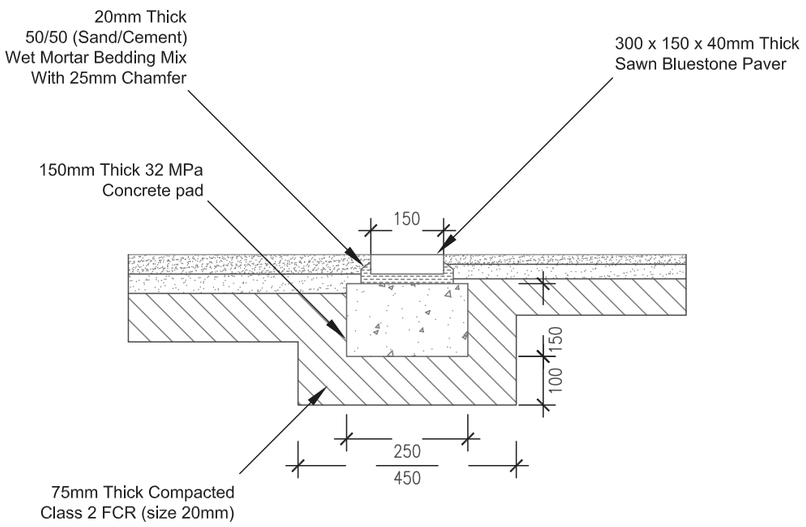
Pavement - Sawn Bluestone Kerb Extension Spoon Drain

CONSTRUCTION DETAILS

Kerb Extension Cross-section



Sawn Bluestone Section



Notes:
1. Detail not to scale
2. Indicative only

Pavement - Sawn Bluestone Banding in Asphalt Pavement

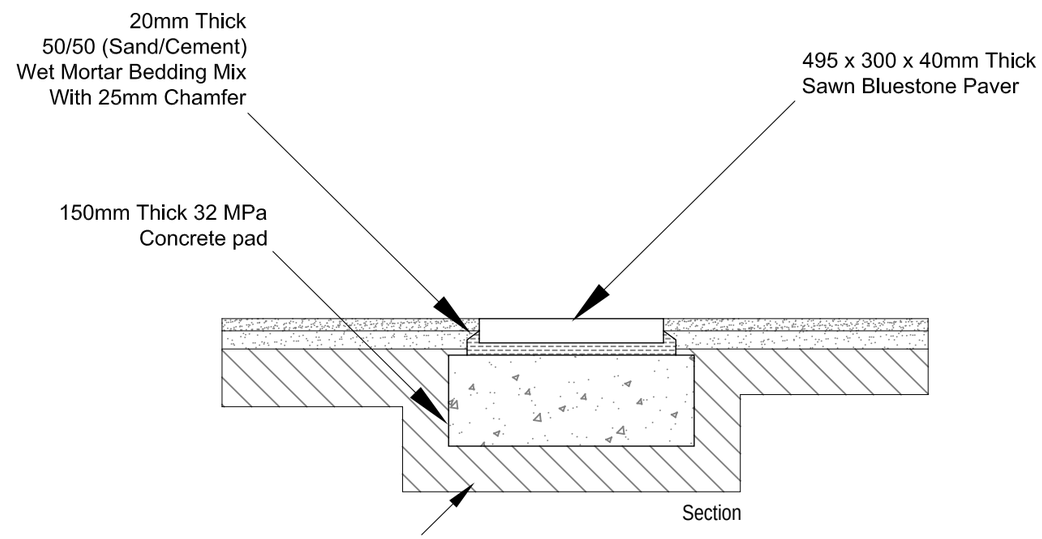
DESIGN STATEMENT
Sawn bluestone banding in asphalt pavement is an urban pavement treatment to be used in the Seddon Activity Centre.

SF 013 only applies to Seddon Activity Centre.

Element	Footpath - Sawn Bluestone Banding in Asphalt Pavement
Materials	• Sawn bluestone paver 495L x 300W x 40Dmm • 150mm depth 32 MPa concrete slab • 75mm depth Class 3 crushed rock base. • 20mm wet mortar bed (50/50 sand/cement)
Finish	• Flushed with adjacent asphalt surface finishes • 5mm grout joints between pavers
Installation	• To Council construction detail. • Longitudinal fall minimum 0.5%
Maintenance Tasks	• Repair as necessary.
Recommended Use	• To be used in Seddon Village only.
Supplier	• Bamstone Port Fairy Bluestone • Victorian Bluestone Quarries or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings prior to installation as conditions may vary with regard to dimensions and installation patterning.

Footpath - Sawn Bluestone Banding in Asphalt Pavement

CONSTRUCTION DETAILS



Notes:
1. Detail not to scale
2. Indicative only

Tactile Indicators - White Plastic

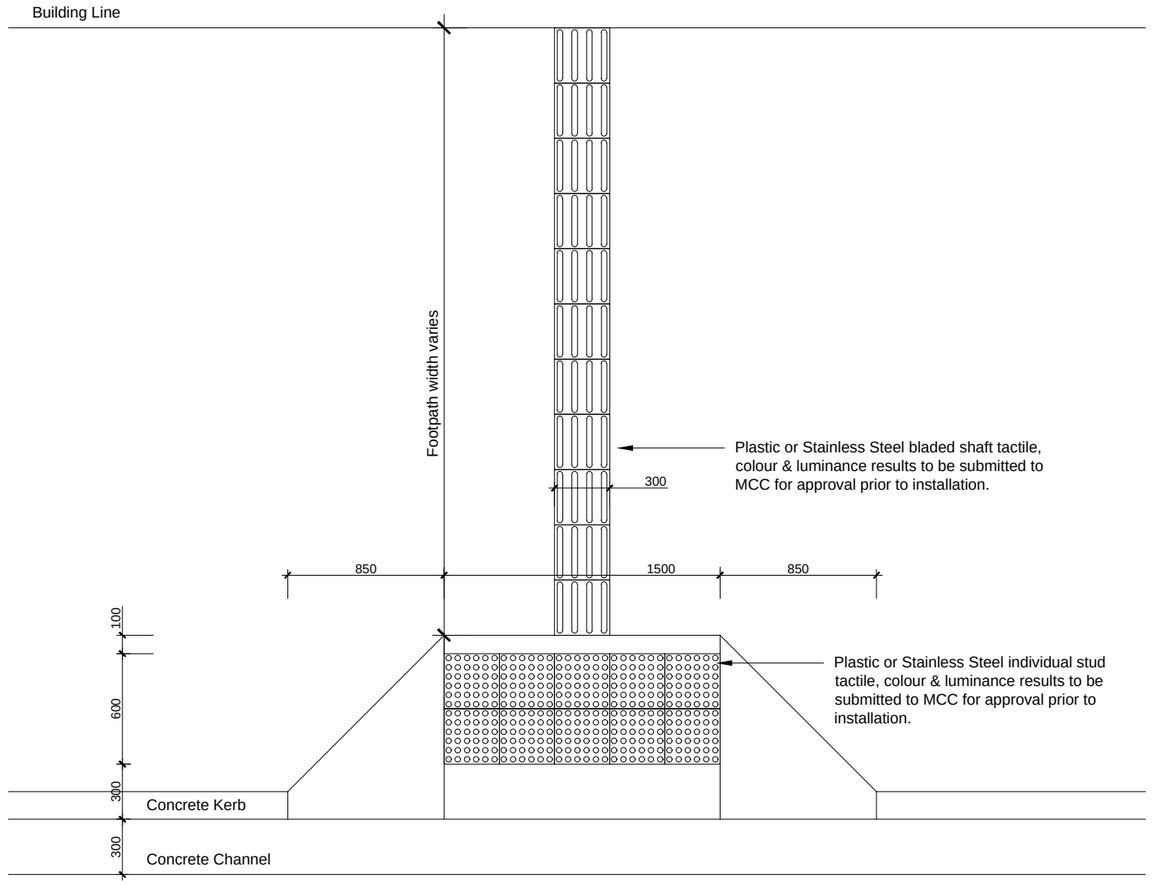
DESIGN STATEMENT
The use of tactile indicators is required at pedestrian crossings points to conform with disability access requirements. The use of white plastic stud indicators is recommended outside the Footscray CAA.

SF 102 also applicable to:
- Local Activity Centres
- General Municipality

Element	Tactile Indicators - White Plastic
Materials	• White coloured plastic stud indicators
Finish	• Finished to achieve anti-slip resistance rating of R11 in • accordance with guidelines HB 197-1999.
Installation	• Refer to A.S. 1428.1 (2009) and A.S. 1428.4 for profile and correct placement of TGSI's. If conflict occurs between council drawings and Australian Standard defer to Australian Standard. • Install to manufacturers specification. • Refer to construction details on page 2.
Maintenance Tasks	• Ensure tactiles and blades are securely fastened to ground surface. • Replace missing buttons and blades as required.
Recommended Use	• High use pedestrian environments and public transport stops
Supplier	• CTA Australia Ph.1300 282 282 (www.cobbletac.com) or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• None

Tactile Indicators - White Plastic

CONSTRUCTION DETAILS



PLAN

Streetscape Seat

DESIGN STATEMENT
The ‘Promenade’ seat provides a contemporary seat that is an ideal combination of durable materials for civic furniture within all streetscape areas in Maribyrnong.

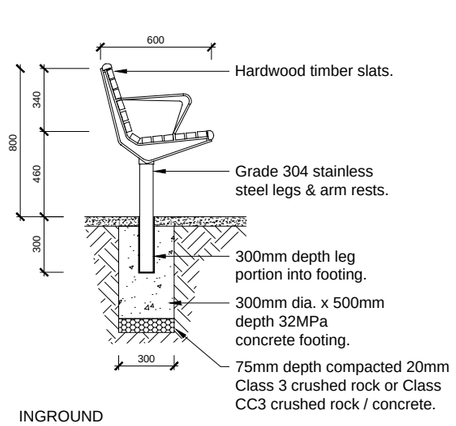
The seat includes a cast aluminium frame and hardwood timber making it very robust.

SF 201 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

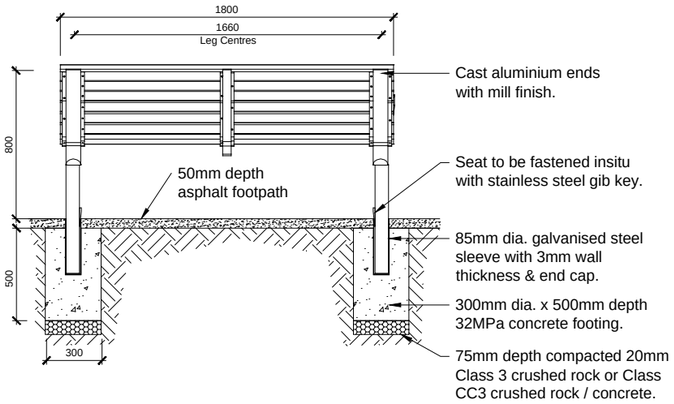
Element	Streetscape Seat
Materials	• Stainless steel leg pipes • Cast aluminium frame • Plantation hardwood timber slats
Finish	• Aluminium frame - Natural Mill Finish • Stainless Steel Leg pipes - Polished • Plantation Hardwood Timber Slats Dressed with Kwila Oil
Installation	Refer to manufacturers specifications and construction detail on page 2. Concrete Pavement Installation • Bolted: Seats to be bolted onto concrete pavement as per detail or in accordance with manufacturers specifications. Asphalt Pavement Installation • In Ground: Seat legs to be slotted into sleeve with gib key as per suppliers in-ground specifications. • Footing design and fixing to be in accordance with engineer’s recommendations.
Maintenance Tasks	• Hand clean as required. • Aluminium to be pressure cleaned annually • Battens to be replaced individually as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in all streetscape areas. Seats should face shops parallel to the kerb line.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Promenade Seat or approved equivalent
Optional Extra	• None
Heritage Comments	• None
Comments	• Minimum 60 metre centres for seat installation within the Footscray CAA

Streetscape Seat

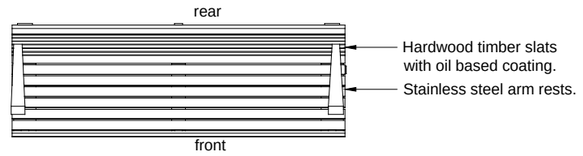
CONSTRUCTION DETAILS



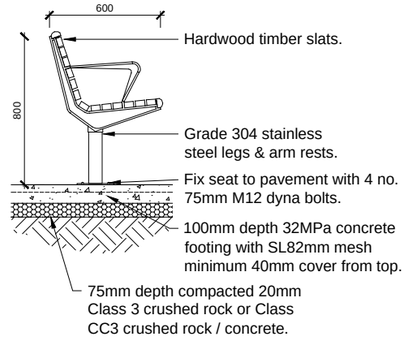
INGROUND FIXING SIDE SECTION



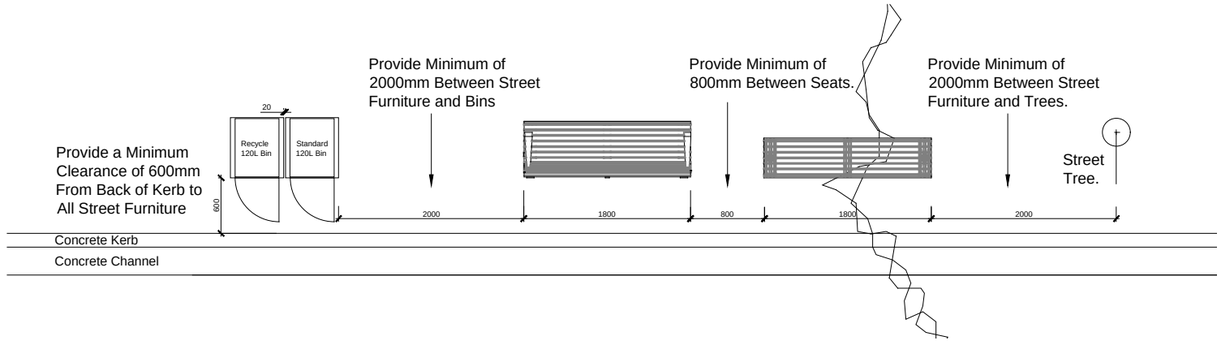
REAR SECTION



PLAN



BOLT DOWN FIXING SIDE SECTION



Notes:
1. Detail not to scale
2. Indicative only

Streetscape Bench

DESIGN STATEMENT
The ‘Promenade’ seat provides a contemporary seat that is an ideal combination of durable materials for civic furniture within streetscape areas in Maribyrnong.

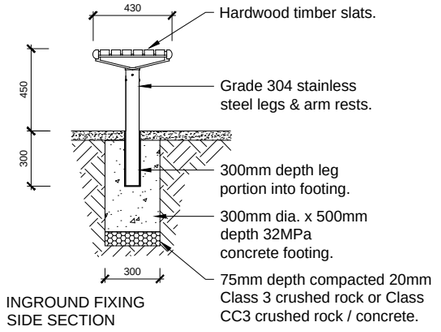
The seat includes a cast aluminium frame and hardwood timber making it very robust.

SF 202 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

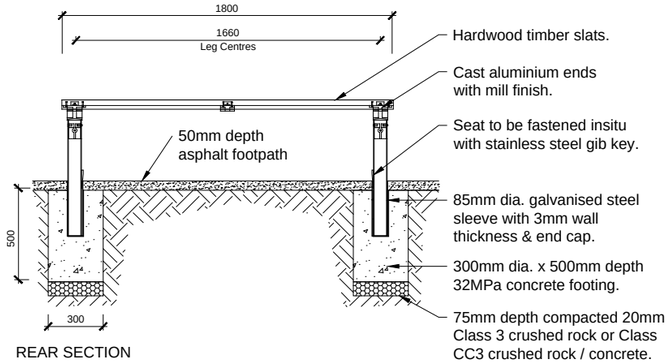
Element	Streetscape Bench
Materials	• Stainless Steel leg pipes • Cast aluminium frame • Plantation Hardwood timber slats
Finish	• Aluminium frame (Natural Mill Finish) • Stainless Steel Leg pipes (Polished) • Plantation Hardwood Timber Slats (Kwila Oil)
Installation	Refer to manufacturers specifications and construction detail on page 2. Concrete Pavement Installation • Bolted: Seats to be bolted onto concrete pavement as per detail or in accordance with manufacturers specifications. Asphalt Pavement Installation • In Ground: Seat legs to be slotted into sleeve with gib key as per suppliers in-ground specifications. • Footing design and fixing to be in accordance with engineer’s recommendations.
Maintenance Tasks	• Hand clean as required. • Aluminium to be pressure cleaned annually • Battens to be replaced individually as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in all streetscape areas. Seats should face shops parallel to the street.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: ‘Promenade’ Bench or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• Minimum 60 metre centres for seat installation within the Footscray CAA

Streetscape Bench

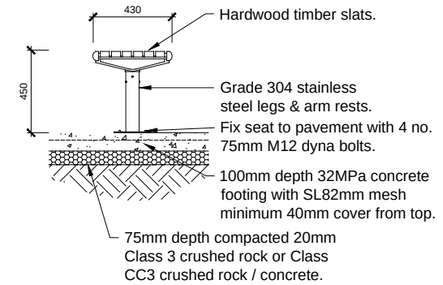
CONSTRUCTION DETAILS



INGROUND FIXING
SIDE SECTION

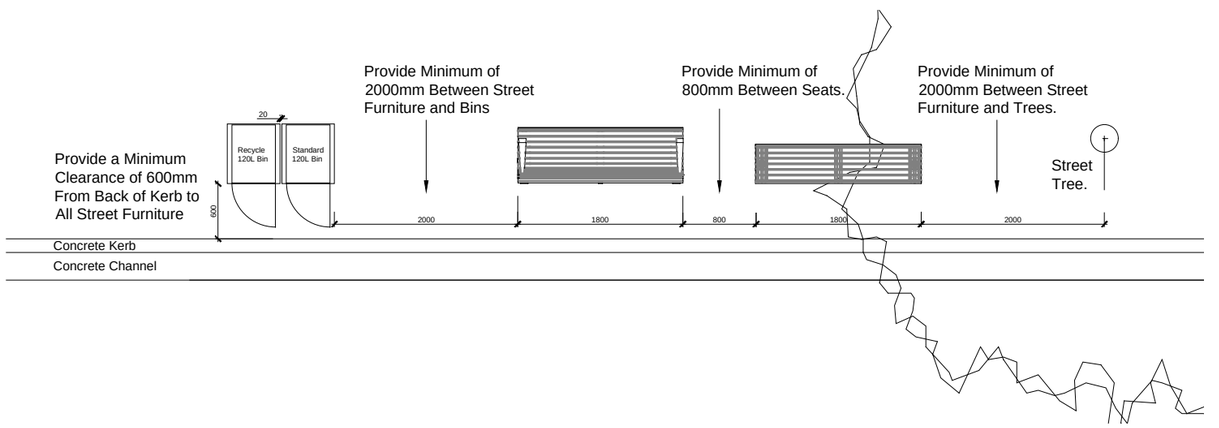


REAR SECTION



BOLT DOWN FIXING
SIDE SECTION

PLAN



Notes:
1. Detail not to scale
2. Indicative only

Drinking Fountain

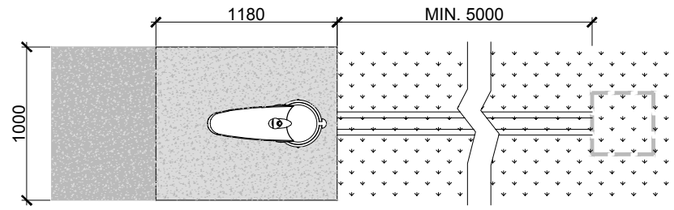
DESIGN STATEMENT
The Stainless steel 'Bent Leaf' drinking fountain with bottle filler and dog bowl is an easy to operate water drinking and general access system. The contemporary design will be supplied by Council and is to be used across all areas across the Municipality.

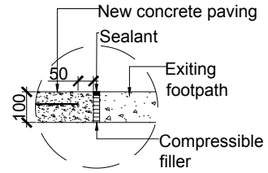
SF 203 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Open Space

Element	Stainless Steel Drinking Fountain with optional bottle filler and dog bowl
Materials	• Grade 316 stainless steel
Finish	• Stainless steel: Electro polished.
Installation	• Refer to manufacturers specifications and construction details on page 2.
Maintenance Tasks	• Clean regularly • Graffiti removal using non toxic product such as Guardian International Citrus product (or similar approved) as required. • Look for rusting, weak or damaged hinges and loose base fixing.
Recommended Use	• Recommended for use across all areas within Maribyrnong City Council.
Supplier	• JC Brown (Blakiston & Shortell Pty. Ltd.) Ph: (03) 5221 3177 Product: 'City of Melbourne style Bent Leaf Drinking Fountain with Bottle Filler and Dog Bowl or approved equivalent.
Heritage Comments	• None.
Optional	• Bottle filler and dog bowl.
Comments	• Cross reference with site layout drawings. • All queries should be clarified with Council prior to commencing works.

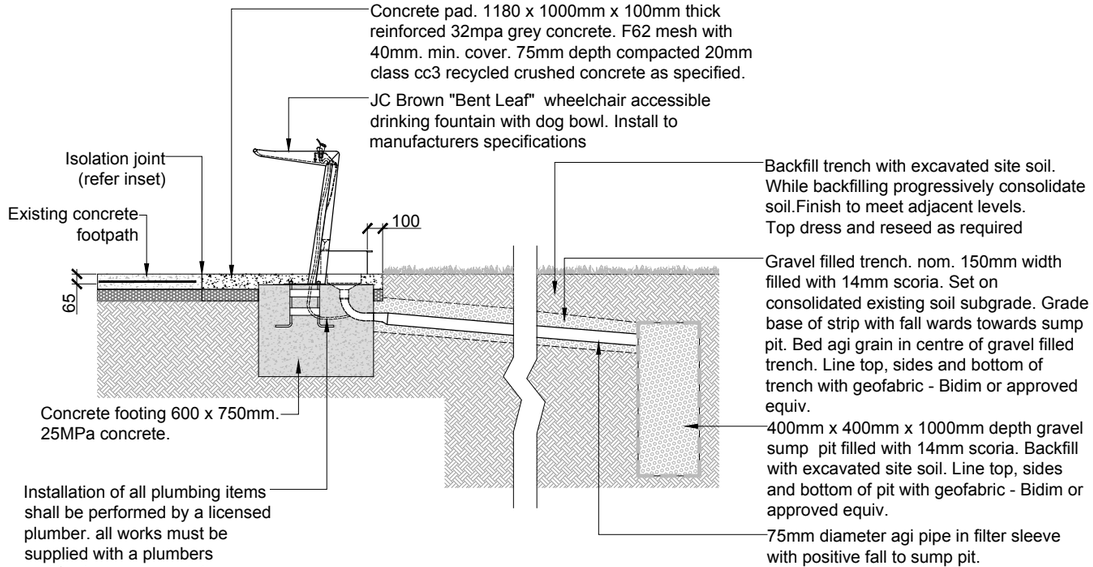
Drinking Fountain

CONSTRUCTION DETAILS





ISOLATION JOINT



Notes:
1. Detail not to scale
2. Indicative only

Bin - 120 Litre General Litter Receptacle

DESIGN STATEMENT
The 120 litre general litter receptacle is recommended for use within the MCC Open Space and across the Municipality.

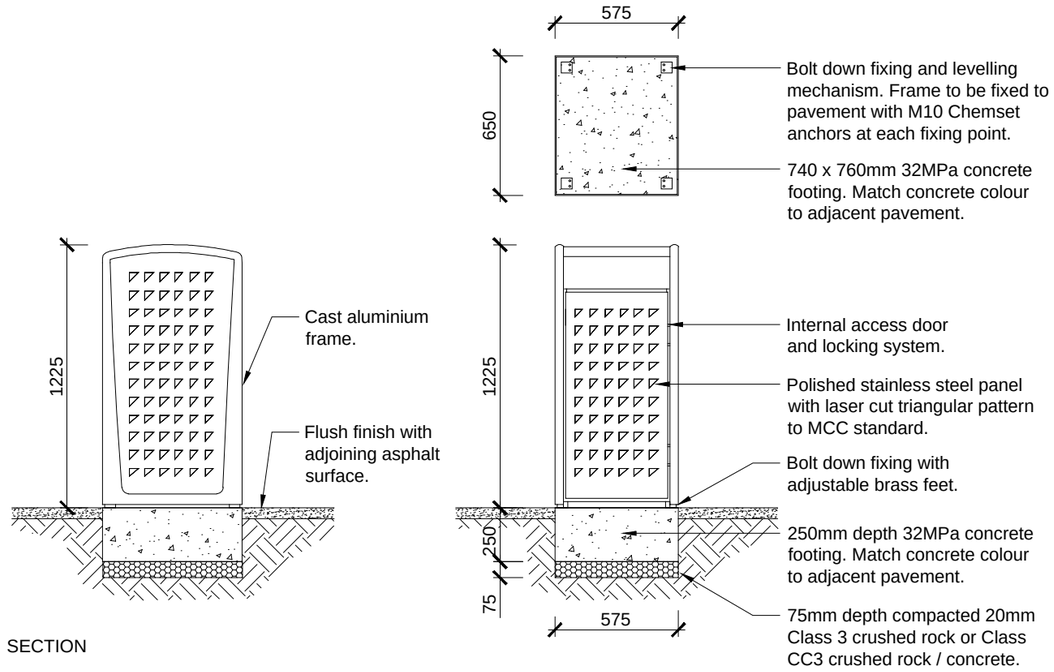
The receptacle is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

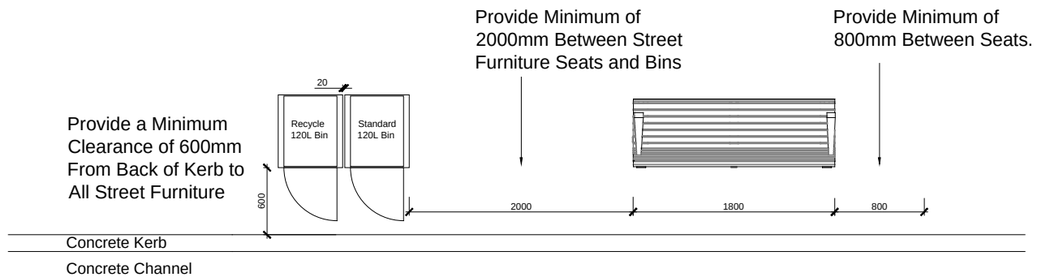
SF 301 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

Element	• Bin - 120 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Litter Receptacle • Ash Canister - Butt-Out Australia Ph. 1800 358 258 or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles can be placed side by side. • Optional stainless steel Butt-Out Ash canister to Footscray CAA and Local Activity Centres only.

Bin - 120 Litre General Litter Receptacle

CONSTRUCTION DETAILS





Notes:
1. Detail not to scale
2. Indicative only

Bin - 240 Litre General Litter Receptacle

DESIGN STATEMENT
The 240 litre general litter receptacle is recommended for use within the MCC Open Space and across the Municipality.

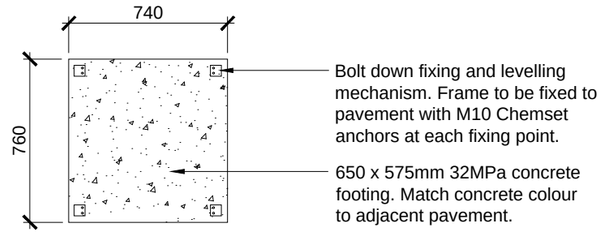
The receptacle is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 302 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality

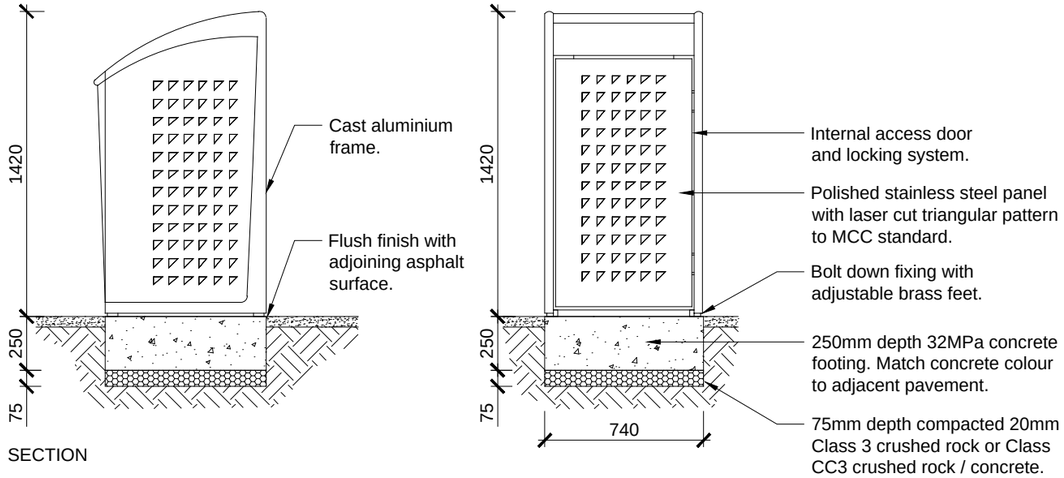
Element	• Bin - 240 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Litter Receptacle • Ash Canister - Butt-Out Australia Ph. 1800 358 258 or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles can be placed side by side. • Optional stainless steel Butt-Out Ash canister to Footscray CAA and Local Activity Centres only.

Bin - 240 Litre General Litter Receptacle

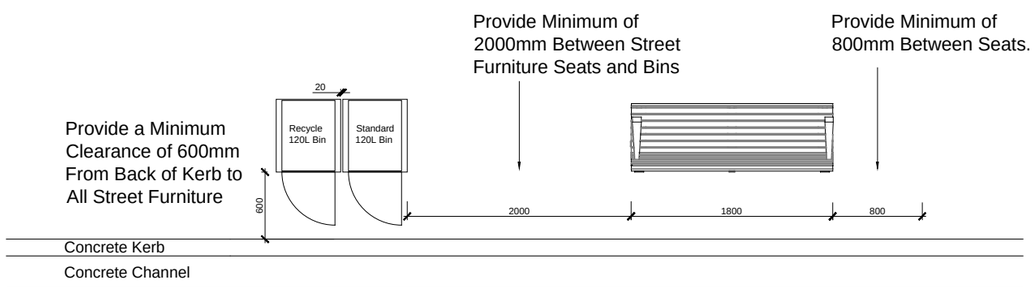
CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



SECTION



Notes:
1. Detail not to scale
2. Indicative only

Bin - 120 Litre Recycle Receptacle

DESIGN STATEMENT

The 120 litre Recycle Receptacle is recommended for use within the Footscray Central Area, Local Activity Centres and open space areas in the Municipality.

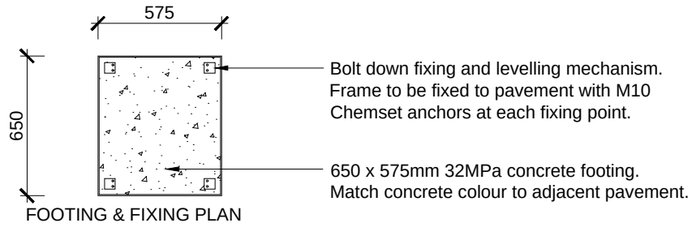
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 303 applies to
- Footscray CAA
- Local Activity Centres
- Open Space Areas

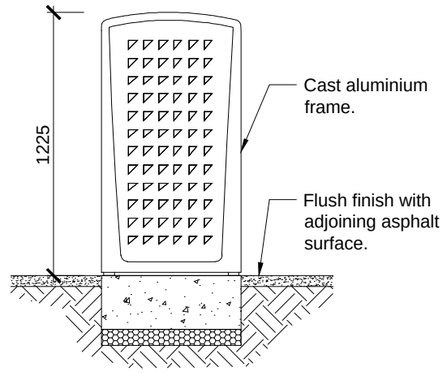
Element	• Bin - 120 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic 'wheelie' bin. • Rubber 'bottle' insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Recycle Receptacle or approved equivalent.
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles can be placed side by side.

Bin - 120 Litre Recycle Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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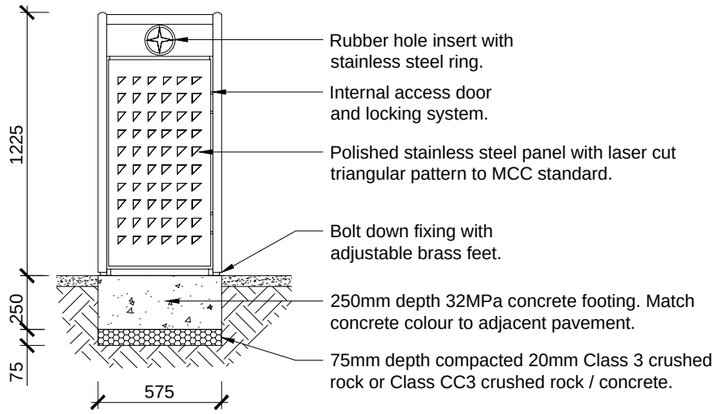
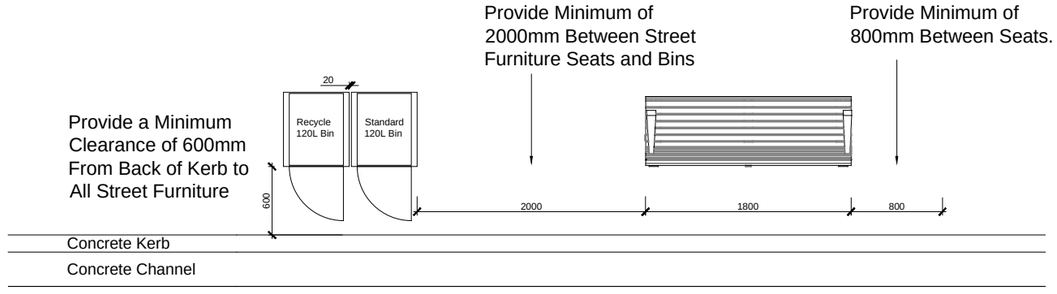




Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bin - 240 Litre Recycle Receptacle

DESIGN STATEMENT
The 240 litre Recycle Receptacle is recommended for use within the Footscray Central Area, Local Activity Centres and open space areas in the Municipality.

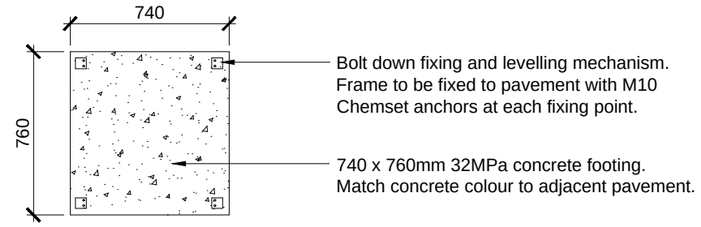
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

SF 304 applies to
- Footscray CAA
- Local Activity Centres
- Open Space Areas

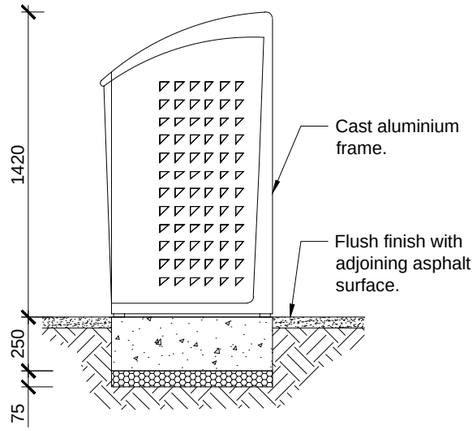
Element	• Bin - 240 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin. • Rubber 'bottle' insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to construction detail on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230. Product: Maribyrnong City Council Metro Recycle Receptacle or approved equivalent.
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles can be placed side by side.

Bin - 240 Litre Recycle Receptacle

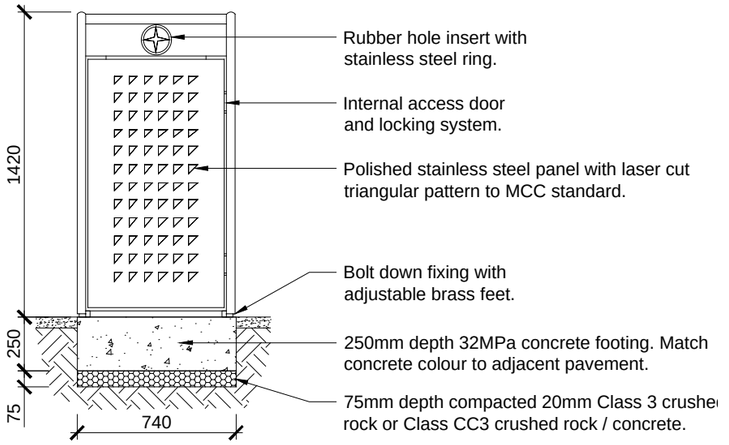
CONSTRUCTION DETAILS

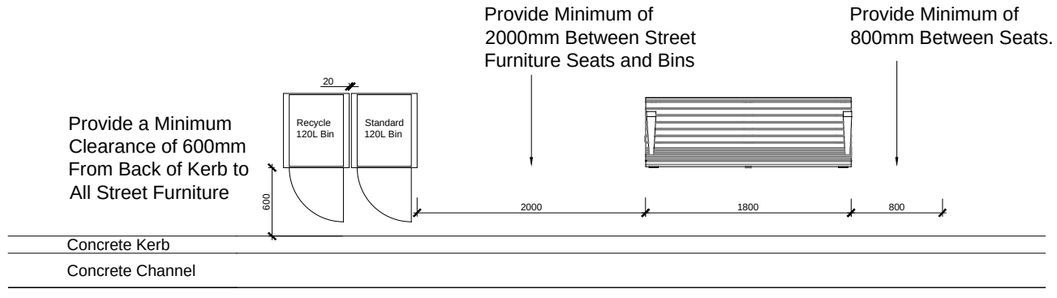


FOOTING & FIXING PLAN



SECTION





Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bicycle Hoop - Standard Hoop

DESIGN STATEMENT
The standard bicycle hoop is designed and located to create a bicycle friendly environment throughout the urban areas of the Municipality.

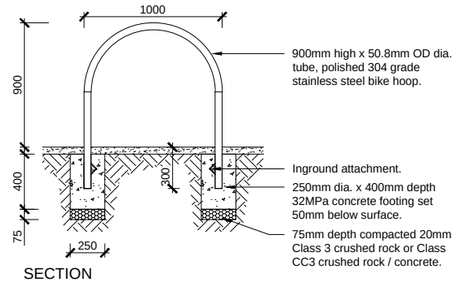
The bicycle hoop can be installed singularly or in groups as required, typically positioned at street corner, where footpath widths are available, and to meet the communities requirements.

SF 402 applies to:
- Local Activity Centres
- Open Space

Element	• Bicycle Hoop - Standard Hoop
Materials	• Grade 304 stainless steel tube 50.8mm OD x 2.0mm wall
Finish	• Polished
Installation	• Refer to construction details on page 2 • Cored installation option in concrete pavement areas, approx 200mm dia core with high strength grout infill • Bolt down installation if required to suit application and location only • When being installed in existing pavements neatly saw cut and make good paving following installation with 25mm of asphalt cover
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• Installed singularly or in groups, to be determined on site.
Supplier	• Various suppliers including Furphy Foundry Pty. Ltd. Ph: 1300 768 230 or approved equivalent
Optional Extra	• None
Comments	• A minimum pedestrian thoroughfare must be maintained at all times of 1.5 metres from the building line. • Setout in accordance with layout plans on page 2

Bicycle Hoop - Standard Hoop

CONSTRUCTION DETAILS



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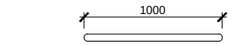
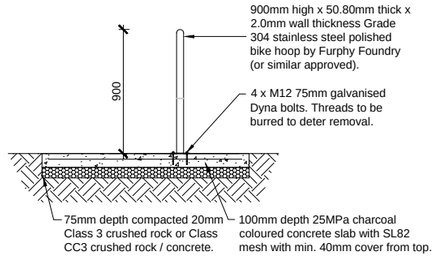


PLAN



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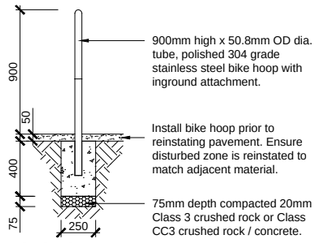

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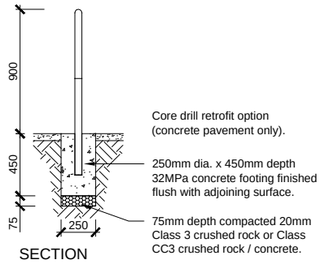

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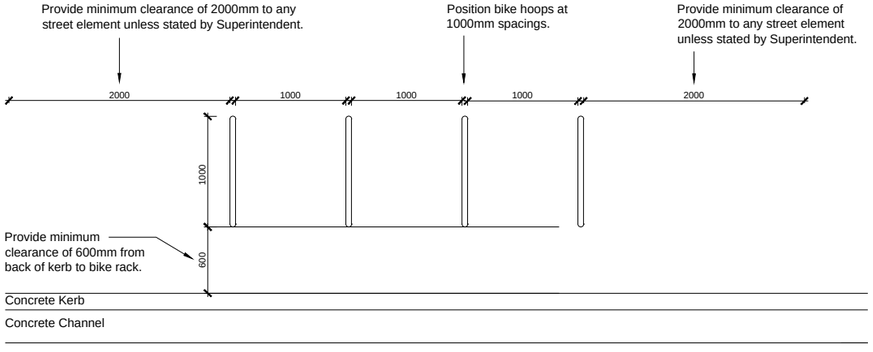
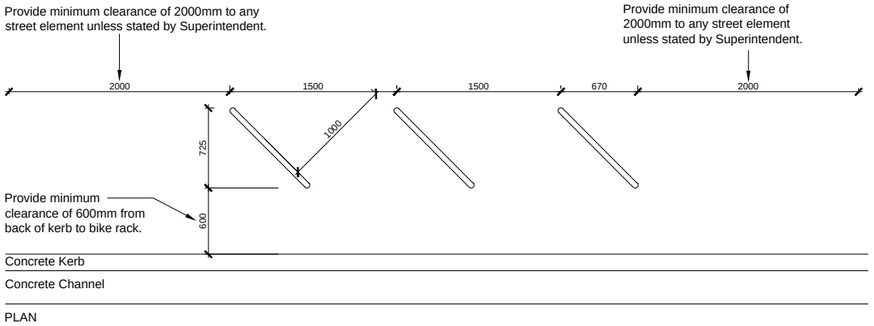


PLAN



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Bollard - Vehicular Zones

DESIGN STATEMENT
The galvanised steel flat top bollard is suitable for use across the Municipality. The minimal design and selection of galvanised steel is intended to complement the style of existing urban furniture elements such as the seats, bins and bike hoops.

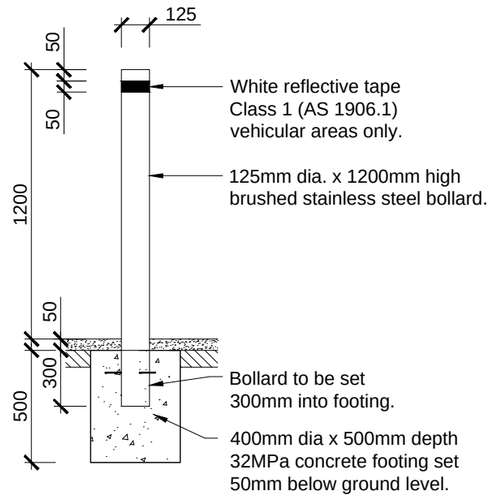
The 125mm diameter bollard is to be selected for carparks and other high use vehicular locations. Use greater wall thickness in vehicle impact areas.

SF 502 also applicable to:
- Local Activity Centres
- General Municipality

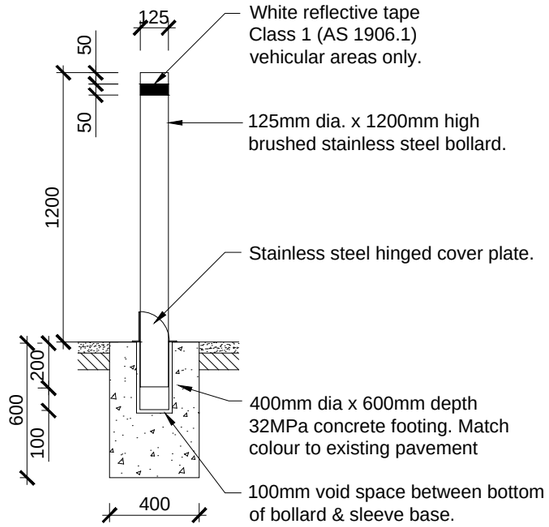
Element	Bollard - Vehicular Zones
Materials	• 125NB x 3.40mm Grade 304 stainless steel pipe, flat cap (and if, selected, base plate).
Finish	• Stainless steel: Electro-finished.
Installation	• Inground installation or • Locking or Removable Installation • Refer to Construction detail on page 2.
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• General streetscape areas as required to control access • Protect electrical cabinets from vehicle • White Reflective tape Class 1 (AS 1906.1) for visibility in vehicular area only.
Supplier	• Leda Security Ph: 1300 780 450 Product: Slimline 125NB SSP125F A (inground) / SSP125R A (removable) or similar approved.
Optional Extra	• Locking and removable options
Comments	• Refer also to SF501 for slimmer option for pedestrian zones. • Cross reference with site layout drawings.

Bollard - Vehicular Zones

CONSTRUCTION DETAILS



INGROUND FIXING
SECTION



REMOVABLE BOLLARD
SECTION

Notes:
1. Detail not to scale
2. Indicative only

Barrier Fence - Pedestrian Safety Barrier

DESIGN STATEMENT

The simple design of the barrier fencing system is to prioritise the safety of pedestrians at busy crossings eg. outside schools, near public transportation hubs, on bridge crossing or near waterways.

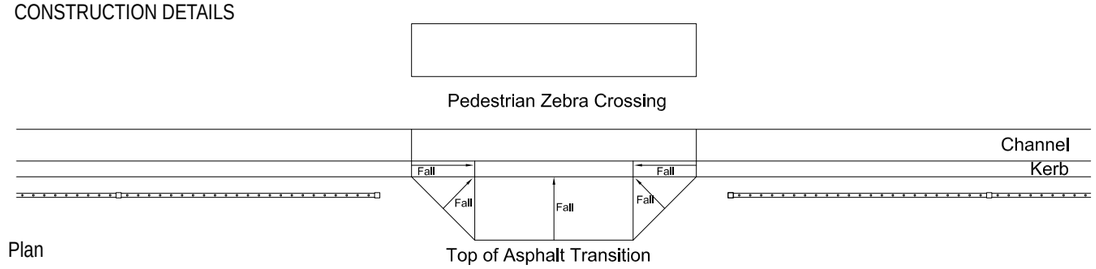
The barrier fencing should be installed as per the direction of Council Transport Unit.

SF 503 applies to:
- Local Activity Centres
- General Municipality
- Open Space Areas

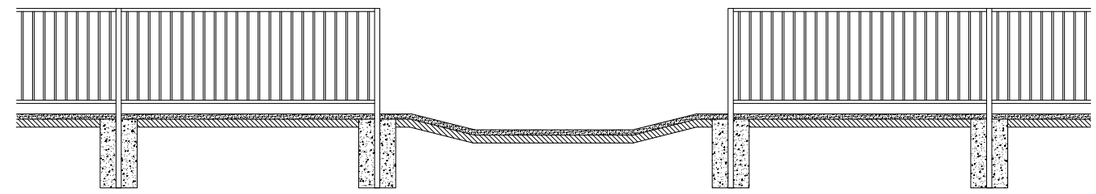
Element	• Pedestrian Safety Barrier Fencing
Materials	• 1200Hx2400W powdercoated steel panel • 50x50x1800mm SHS aluminium posts • 38x25x2400 RHS top and bottom rails
Finish	• Black satin powder coated standard Dulux colour
Installation	• As per manufacturers installation specifications and construction detail on page 2.
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• School Crossing • Bridge Crossing • Near deep water (except in flood zones)
Supplier	• Various Suppliers including Arc Fences. Phone: 1800 336 237 www.arcfences.com.au (or approved equivalent)
Optional Extra	• Fencing height and panel length may vary depending on extent of cover
Comments	• Not to be used in flood zones • Cross reference with site layout drawings. Install as per construction detail on page 2.

Barrier Fence - Pedestrian Safety Barrier

CONSTRUCTION DETAILS



Plan



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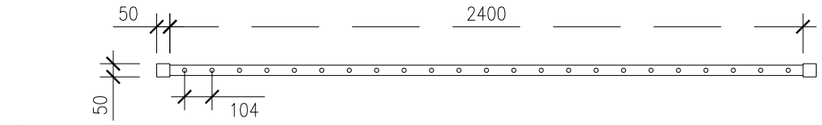
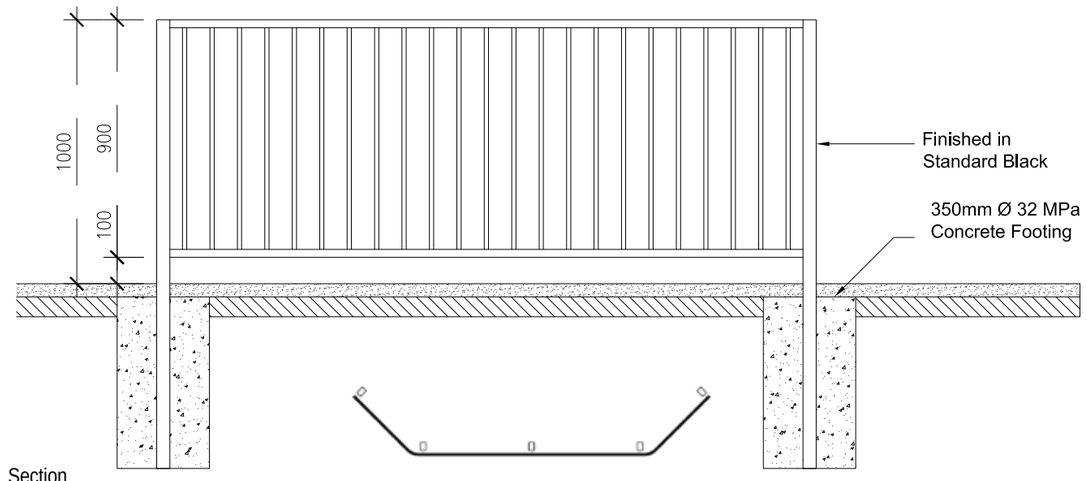


Plan



Section

Notes:
1. Detail not to scale
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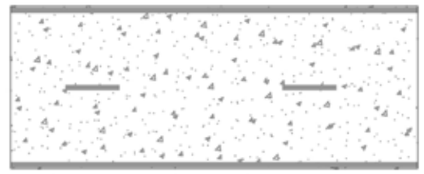


TYPICAL BARRIER INSTALLATION

Tree Planting Bay - Granitic Gravel

DESIGN STATEMENT

The urban gravel tree surround is designed to maximise greening opportunities. This treatment would be typically used in local streets.

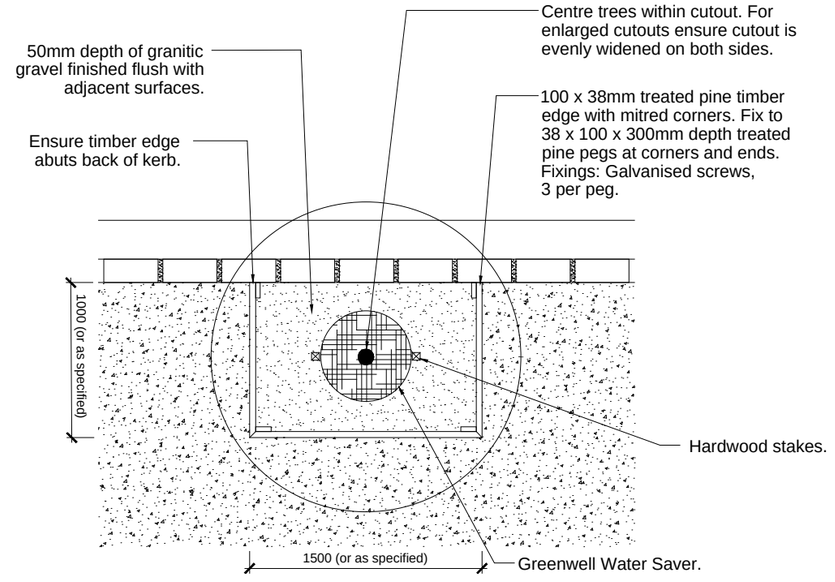
SF 603 applies to:

- Local Activity Centres
- General Municipality
- Heritage Sites

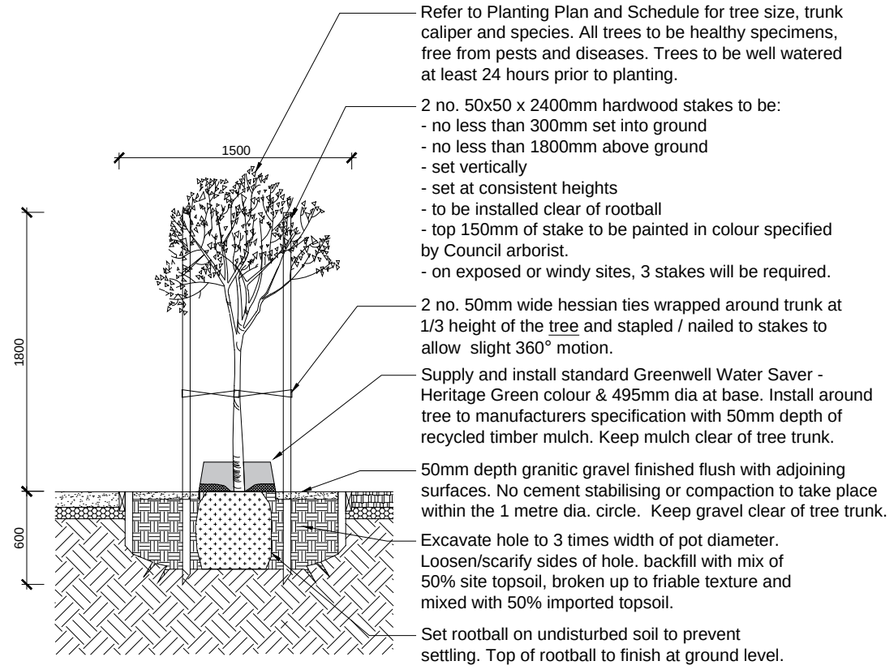
Element	Tree Planting Bay in Granitic Gravel
Materials	• Typical 1200x1200mm • 38x100mm treated pine timber edge • 75mm compacted depth granitic gravel • Water well: Greenwell Water Saver - Standard size in Heritage Green colour or similar approved
Finish	• Gravel mulch to finish flush with timber edge • Timber edge to finish flushed with adjacent paving surfaces.
Installation	• As per construction detail on page 2 • Asphalt and timber edging to be flush to avoid tripping hazard.
Maintenance Tasks	• Clean litter and top up gravel mulch to prevent rutting and depressions
Recommended Use	• Local street asphalt footpaths
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings. Install as per specifications.

Tree Planting Bay - Granitic Gravel

CONSTRUCTION DETAILS



PLAN



SECTION

Notes:

1. Detail not to scale
2. Indicative only

Tree Planting Bay - In Median

DESIGN STATEMENT
Median tree planting are proposed to be implemented in all local streets where there is adequate space within the middle of the road to situate the planting.

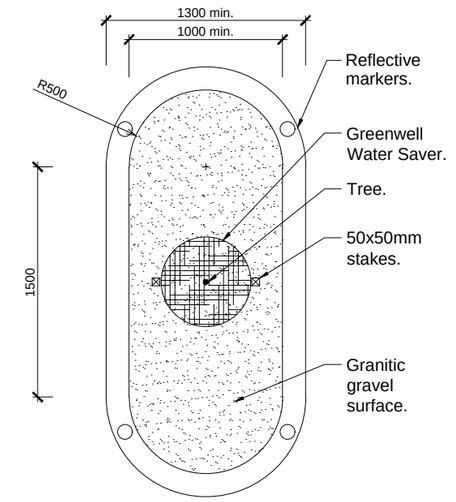
This greening practice is focused on creating more green local streets, which in turn builds a stronger sense of character and place.

SF 604 applies to:
- Footscray CAA
- General Municipality

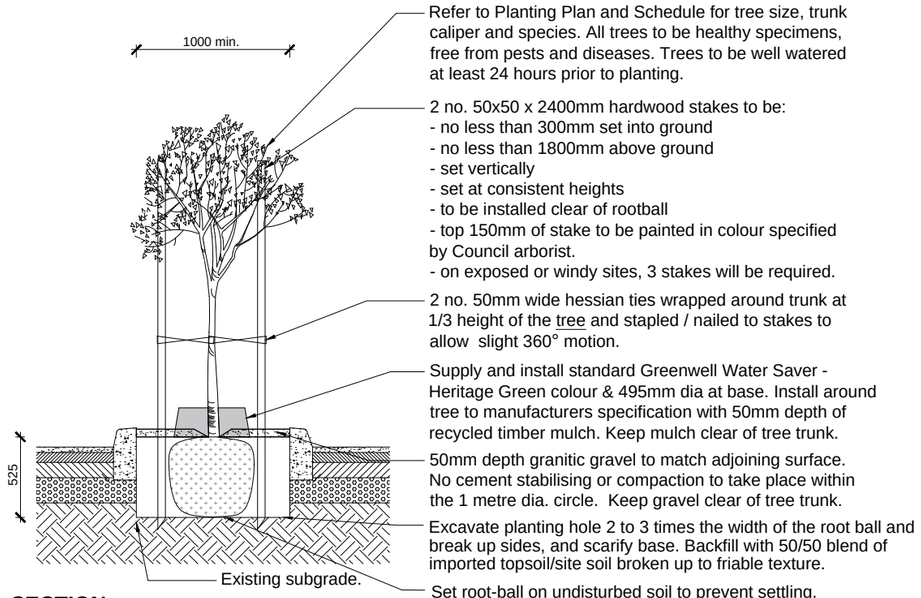
Element	Tree Planting Bay in Median
Materials	• Typically 1300x2800mm rounded edge insitu barrier kerb. • Reflective markers to be installed on both sides of kerb. • Granitic gravel mulch infill • Water well: Greenwell Water Saver - Standard size in Heritage Green colour or similar approved.
Finish	• Charcoal grey concrete 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council).
Installation	• As per construction detail on page 2
Maintenance Tasks	• Clean litter and top up granitic gravel to maintain level.
Recommended Use	• To be used throughout local streets.
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None
Optional Extra	• Pre cast concrete optional.
Comments	• None

Tree Planting Bay - In Median

CONSTRUCTION DETAILS



PLAN



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Tree Planting Bay - On Street

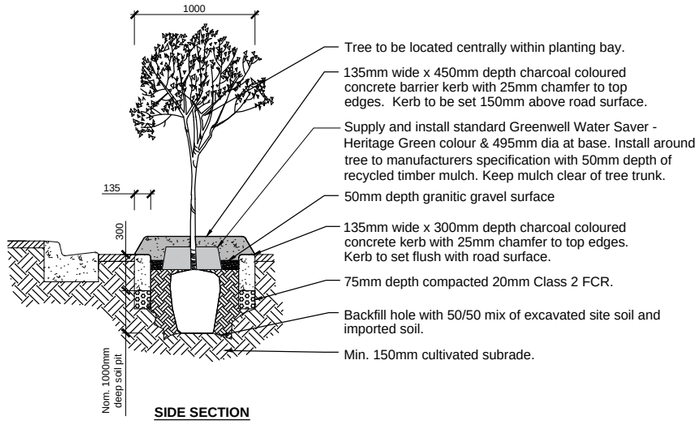
DESIGN STATEMENT
Street Tree Planting Bay cutout is a street treatment throughout the Footscray Central Area and Local Activity Centres. The design enhances tree coverage along streetscapes without disrupting safe traffic and parking conditions.

SF 605 applies to:
- Footscray CAA
- Local Activity Centres

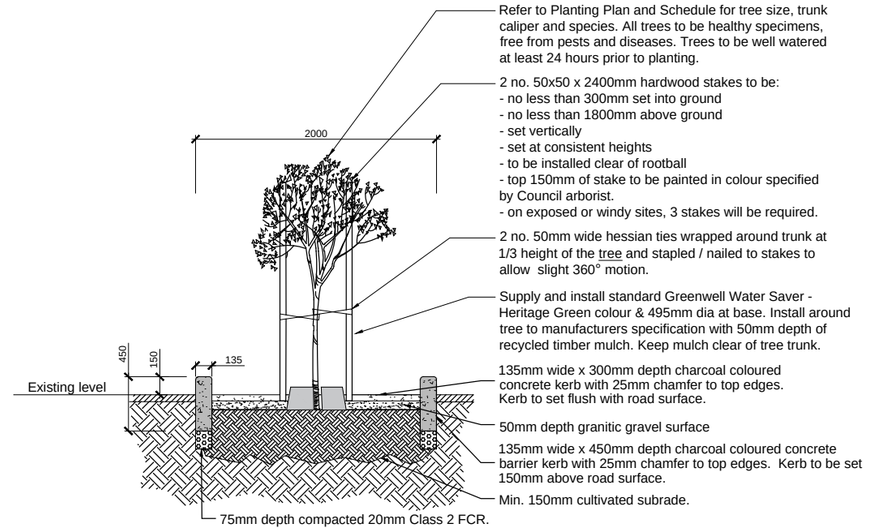
Element	On Street Tree Planting Bay
Materials	• Typical dimension 1000mmWx1500-2200mmL • 135mmWx450mmD 32Mpa coloured concrete • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 75mm depth class 3 crushed rock base. • 50mm depth granitic gravel mulch finished 50mm below road level. • Water well: Greenwell Water Saver - Standard size in Heritage Green colour or similar approved
Finish	• Trowelled concrete
Installation	• Width of kerbs (1000mm edges) are wheel stops finishing 150mm above finished levels. Length of kerbs (1500-2000mm edges) are flushed with road base to allow drainage into kerb and channel. • Refer to construction details on page 2.
Maintenance Tasks	• Top up granitic gravel mulch as required
Recommended Use	• As required in the Footscray Central Area and Local Activity Areas.
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None.
Optional Extra	• None.
Comments	• Length varies depending on parking bays

Tree Planting Bay - On Street

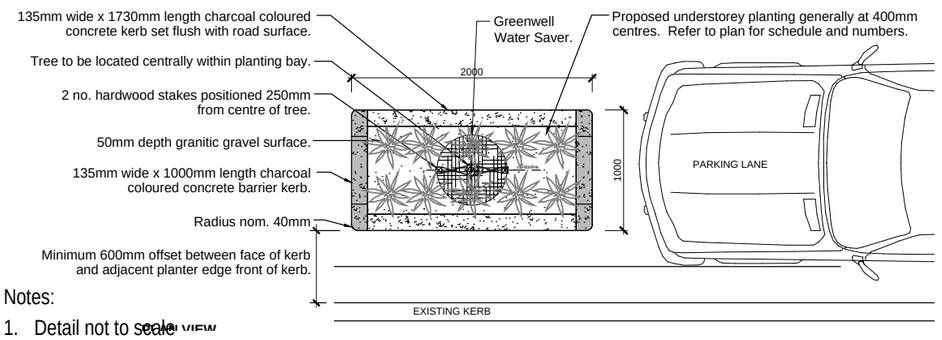
CONSTRUCTION DETAILS



SIDE SECTION



LONG SECTION



PLAN VIEW

Notes:
1. Detail not to scale
2. Indicative only

Tree Planting - Naturestrip

DESIGN STATEMENT

Trees are to be planted to create shade and cooling opportunities, and enhance natural landscape features.

Planting of trees should be in accordance with planting details and additional notes.

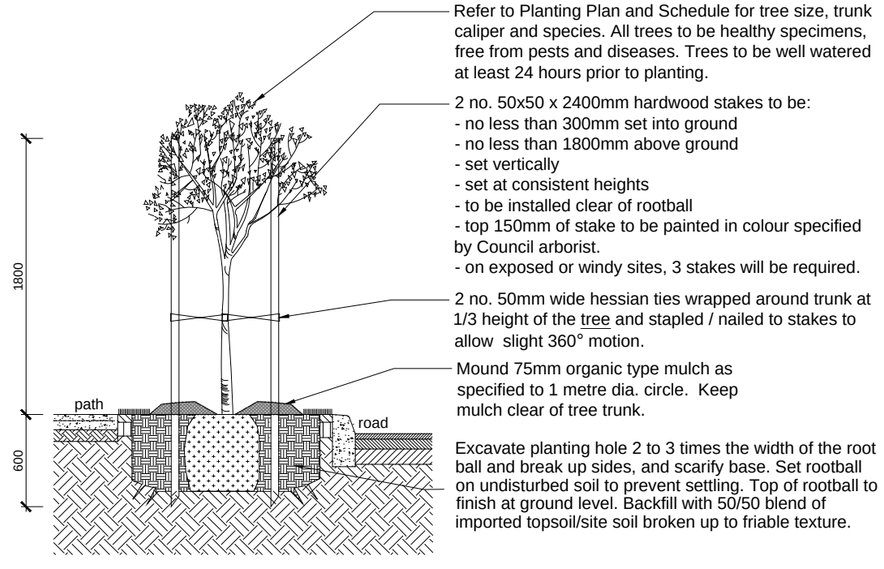
SF 606 applies to:

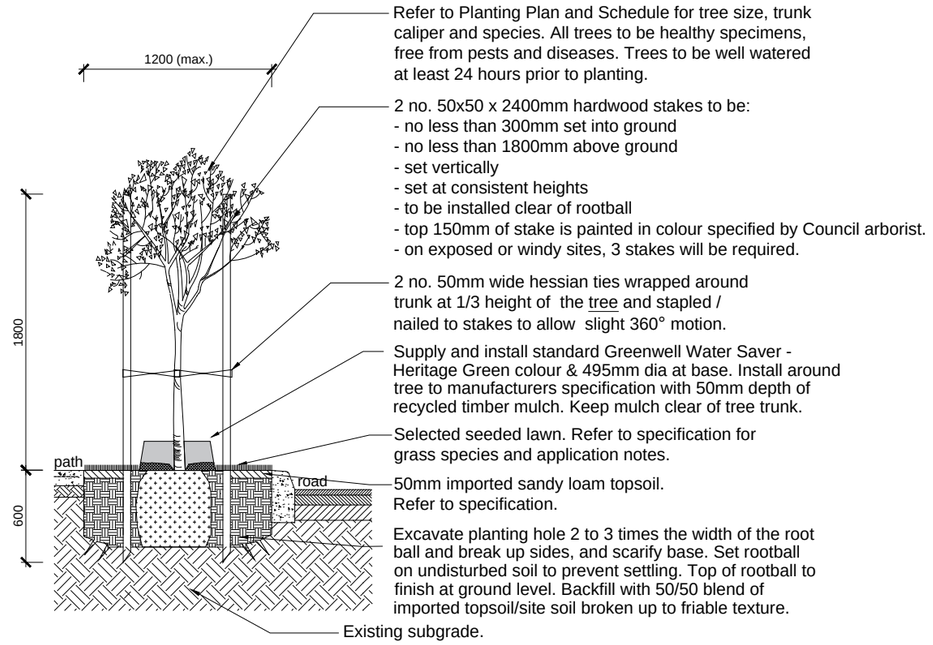
- Footscray CAA
- Local Activity Centres
- General Municipality

Element	Semi - Advanced Tree Planting
Materials	• Selected tree, as specified. • 50x50mm Hardwood Timber Stakes • Timber mulch, as specified. • 50mm wide hessian ties • Imported topsoil and soil ameliorants, as specified. • Optional - Water well: Greenwell Water Saver or similar approved.
Finish	
Installation	• Refer to Planting Details relating to different situations on page 2, 3 or 4.
Maintenance Tasks	• Regularly check timber stakes and hessian ties are straight and supporting upright growth of tree. • Soil and mulch to be re-applied as necessary.
Recommended Use	• Recommended for use in general municipal naturestrips within Maribyrnong City Council.
Supplier	• Various
Heritage Comments	• None.
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council Arborist prior to commencing works.

Tree Planting - Naturestrip

PLANTING DETAILS





Notes:

1. Detail not to scale
2. Indicative only

Bus Shelter

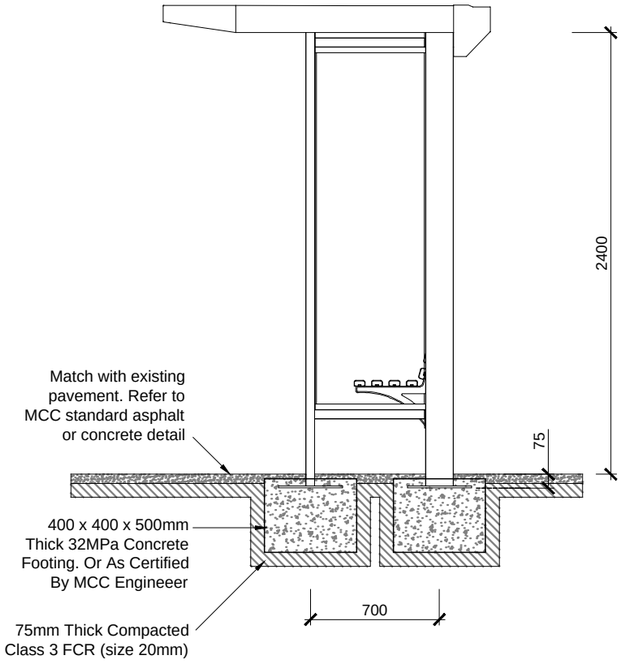
DESIGN STATEMENT
The ‘Metro’ bus shelter is a standard bus shelter to be used through out the Municipality to enable a safe and clean environment for public transport users.

SF 801 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Heritage Sites

Element	Bus Shelter
Materials	• Powdercoated Aluminium Frame & Seat • Colourbond roof. • Toughened safety glass. • LED lighting
Finish	• Powdercoated
Installation	• Installation by supplier is recommended. • Bus shelter must wherever possible be located off the accessible path of travel. • Tactile ground surface indicators are to be installed to pavement around bus shelter in accordance with AS 1428.1. Refer to SF101 for further information on tactile indicators.
Maintenance Tasks	• ‘Maintenance by supplier’ contracts are preferred • Clean as necessary. • Components to be replaced if bent or damaged. • Paint to be touched up when chipped or damaged. Full repainting off site prefer red. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• As required throughout municipality at designated bus stops. Wide and narrow options to be considered on site based on minimum pedestrian access widths
Supplier	• Stoddart Infrastructure Ph: 1300 791 954. Product name: Metro Bus Shelter or approved equivalent
Heritage Comments	• None
Optional extra	• With or without screen pattern
Comments	• Typically installed by Adshel in accordance with MCC/PTV/Adshel maintenance agreement

Bus Shelter

CONSTRUCTION DETAILS



Notes:
1. Detail not to scale
2. Indicative only

Standard Local Street Light ‘Luminaire’

DESIGN STATEMENT

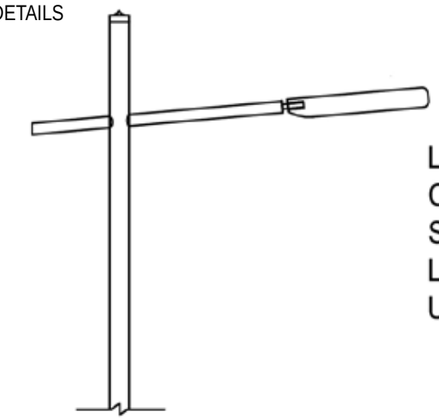
Pierlite ‘Greenstreet’ 2x14W / 2 x 24W to meet Jemena Public Lighting Stds (c/w photocell)

SF 902 applies to:
- General Municipality

Element	Standard Local Street Luminaire
Materials	• Polycarbonate lens • 2 x 14w TS fluorescent lamps (Option 1) • 2 x24w TS fluorescent lamps (Option1a) • Electronic Control Gear (ECG)
Finish	• Die Cast aluminium housing • Grey powder coated finish RAL 3801 • Heavy duty stainless steel clips • 34mm x 80mm Long spigot mount • Dims 710mm (L) x 180mm (W) x 100mm (H) • Mass 4.0kg

Standard Local Street Luminaire

CONSTRUCTION DETAILS

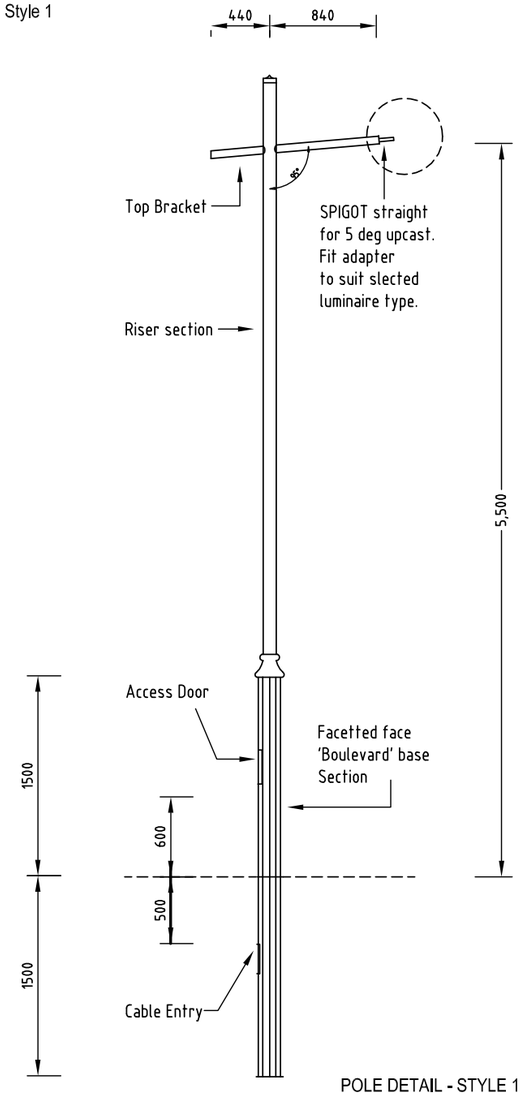


LUMINAIRE - TYPE 1 / 1a option
Clean simple line aesthetic.
Standard Jemena Luminaire.
Luminaire Efficiency = 80.8%
Upward Waste Light = 5.5%

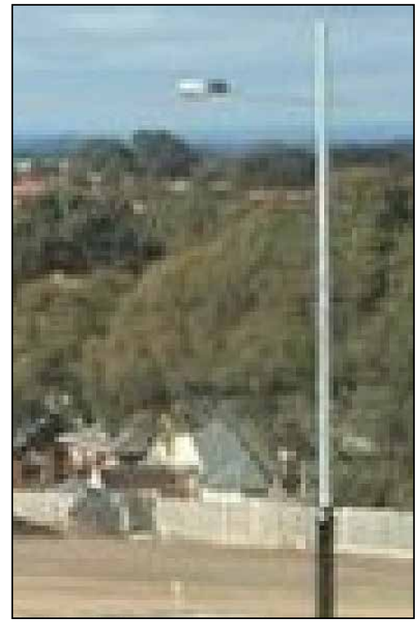
Standard Local Street Pole ‘Tandara’

CONSTRUCTION DETAILS

PEDESTRIAN & ROADWAY
LIGHTING
URBAN RESIDENTIAL
Construction Details
Style 1



POLE DETAIL - STYLE 1
(Vicpole Tandara)



Section

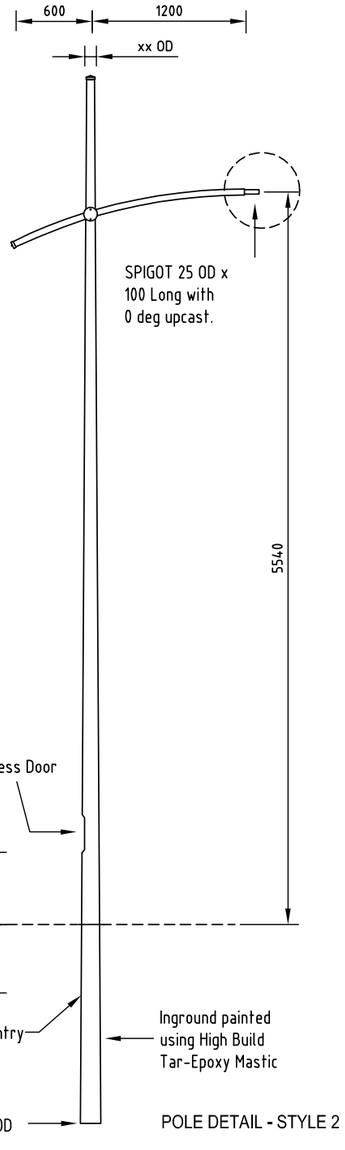
Notes:
1. Detail not to scale
2. Indicative only
3. Footings refer supplier details

NOTES: –
1. LOCATION AND SIZE OF ANY POWER SUPPLY CONDUIT TO LIGHT POLE THROUGH THE FOOTING IS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
2. LIGHT POLE, BASE PLATE, RAG BOLT ASSEMBLY AS SPECIFIED BY LIGHT POLE MANUFACTURER.
3. IF THE SURFACE IS A CONCRETE FINISH THEN THE CONCRETE ENCASEMENT WHICH IF TAKEN TO SURFACE LEVEL THEN MATCH THE COLOUR TO THE EXISTING PAVEMENT.
4. USE 32MPa CONCRETE.

Standard Local Street Pole ‘Lincoln’

CONSTRUCTION DETAILS

PEDESTRIAN & ROADWAY LIGHTING
URBAN RESIDENTIAL Construction Details
Style 2



Section

Notes:

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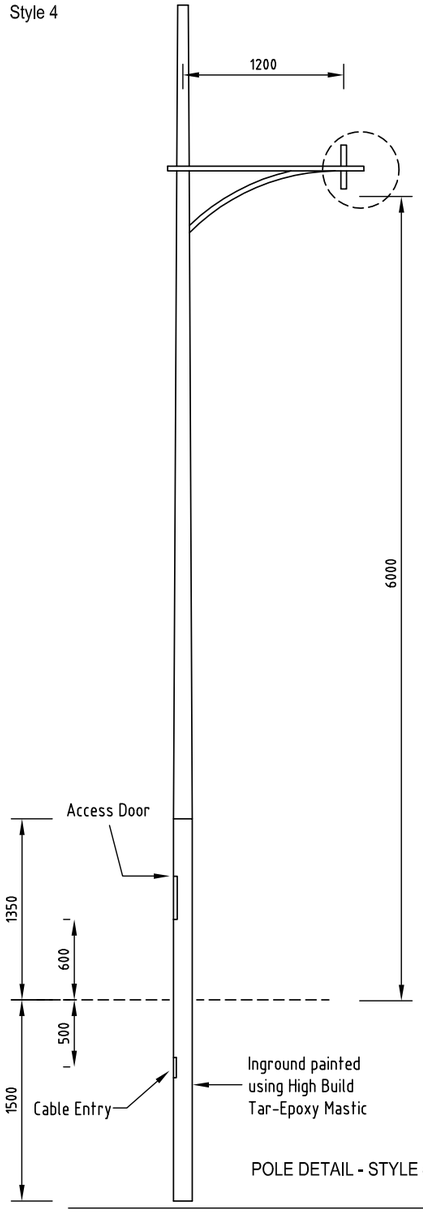
2. LIGHT POLE, BASE PLATE, RAG BOLT ASSEMBLY AS SPECIFIED BY LIGHT POLE MANUFACTURER.
3. IF THE SURFACE IS A CONCRETE FINISH THEN THE CONCRETE ENCASEMENT WHICH IF TAKEN TO SURFACE LEVEL THEN MATCH THE COLOUR TO THE EXISTING PAVEMENT.
4. USE 32MPa CONCRETE.

Standard Local Street Pole ‘Waterford’ Sub-Division

CONSTRUCTION DETAILS

PEDESTRIAN & ROADWAY LIGHTING URBAN RESIDENTIAL
Construction Details
Style 4



Notes:

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2. Indicative only
3. Footings refer supplier details

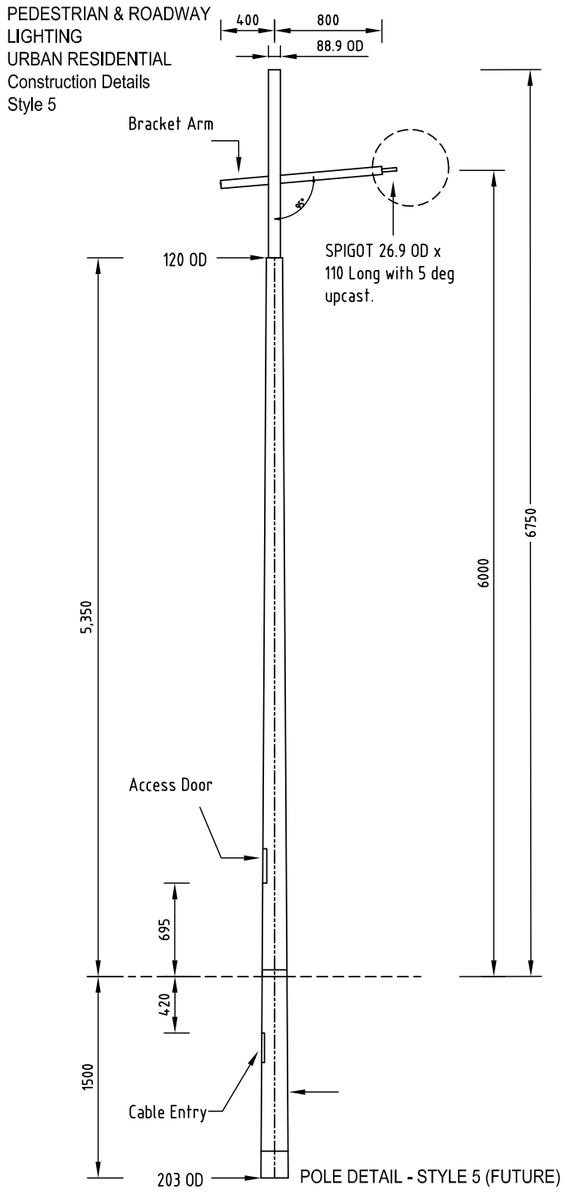
Section

NOTES: –

1. LOCATION AND SIZE OF ANY POWER SUPPLY CONDUIT TO LIGHT POLE THROUGH THE FOOTING IS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
2. LIGHT POLE, BASE PLATE, RAG BOLT ASSEMBLY AS SPECIFIED BY LIGHT POLE MANUFACTURER.
3. IF THE SURFACE IS A CONCRETE FINISH THEN THE CONCRETE ENCASEMENT WHICH IF TAKEN TO SURFACE LEVEL THEN MATCH THE COLOUR TO THE EXISTING PAVEMENT.
4. USE 32MPa CONCRETE.

Standard Local Street Pole - 'Powercor'

CONSTRUCTION DETAILS



Notes:

1. Detail not to scale
2. Indicative only
3. Footings refer supplier details

Section

NOTES: –

1. LOCATION AND SIZE OF ANY POWER SUPPLY CONDUIT TO LIGHT POLE THROUGH THE FOOTING IS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
2. LIGHT POLE, BASE PLATE, RAG BOLT ASSEMBLY AS SPECIFIED BY LIGHT POLE MANUFACTURER.
3. IF THE SURFACE IS A CONCRETE FINISH THEN THE CONCRETE ENCASEMENT WHICH IF TAKEN TO SURFACE LEVEL THEN MATCH THE COLOUR TO THE EXISTING PAVEMENT.
4. USE 32MPa CONCRETE.

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Section 4
Open Space

Open Space Treatment Strategy Palette

4.1 Open Space Palette

Access to high quality open space is important for the health and wellbeing of Maribyrnong residents and visitors. For the purposes of this manual, open space is defined as all publicly owned land within Maribyrnong City Council, used for recreation, passive outdoor activities and nature conservation. Open space areas include waterways, parks and gardens, reserves and sporting fields. The Open Space Treatment Strategy Palette includes a range of treatments which are well designed, cost effective and adaptable for a diverse range of open space uses.

Large privately owned open space areas do not need to conform with this manual's open space palette. However, it is strongly recommended that the suite be used to help guide the selection of high quality and suitable furniture elements and treatments.

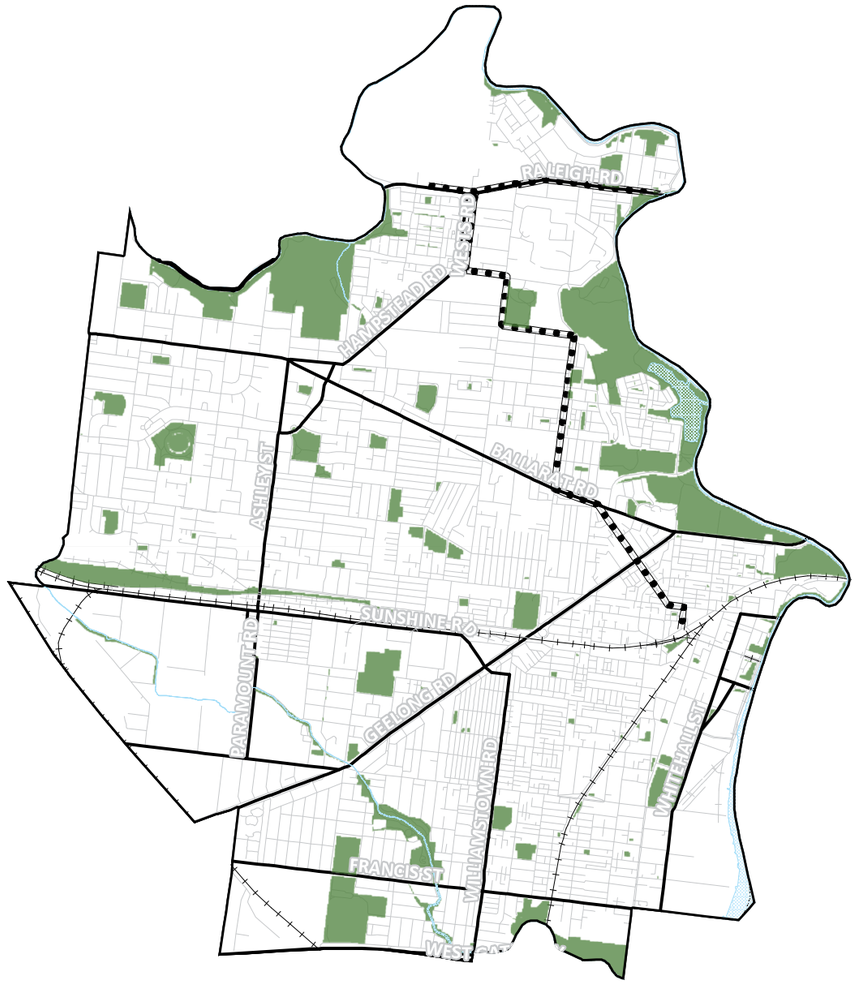


Figure 4. Maribyrnong City Council Open Space

OS 001
Footpath
Granitic Gravel with
Timber Edge

OS 002
Granitic Gravel Surface

OS 003
Footpath
Concrete Pavement

OS004
Edge Detail
Concrete Edge

OS 005
Edge Detail
Timber Edge

OS 006
Edge Detail
Timber Sleeper

OS 007
Edge Detail
Spade Cut Edge

OS 008
Edge Detail
Steel Edge

OS 009
Edge Detail
Bluestone Pitcher Edge

OS 010
Edge Detail
Basalt Floater Edge

OS 011
Footpath
Asphalt Pathway

OS 012
Mulch Detail
Timber Mulch

OS 013
Playground Surface
Timber Softfall

OS 014
Playground Surface
Wet Pour Rubber

OS 201
Open Space Seat

OS 202
Open Space Bench

OS 203
Picnic Setting

OS 204
Drinking Fountain

OS 205
Barbecue

OS 301
Bin - Standard 120 Litre

OS 302
Bin - Standard 240 Litre

OS 303
Bin - Recycle 120 Litre

OS 304
Bin - Recycle 240 Litre

OS 402
Standard Bicycle Hoop

OS 501
Boundary Treatment
Cypress Pine Posts and
Galvanised Rail

OS 502
Bollard
Large Timber

OS 503
Fence
Open Space Chain Mesh

OS 504
Fence
Sports Ground Chain Mesh

OS 505
Bicycle Barrier

OS 601
Tree Planting

OS 602
Tree Protection Zone

OS 603
Lawn and
Shrub Planting

OS 801
Park Shelter

OS 901
Park Light

Footpath - Granitic Gravel with Timber Edge

DESIGN STATEMENT

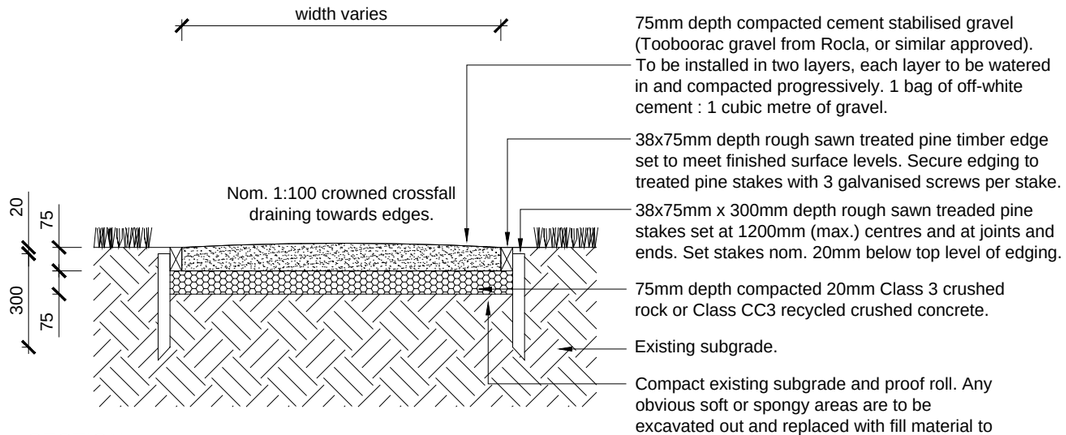
The Granitic Gravel Path provides a softer paving treatment which enhances the natural open space features and integrates a water sensitive design. Gravel paths should always include timber edging.

OS 001 applies to:
- Open Space
- Heritage Sites

Element	Footpath - Granitic Gravel Path with Timber Edge
Materials	• 75mm depth stabilised 'Tooboorac' granitic gravel (premixed with Soilbond-A01). • 75mm depth Class 3 FCR • 38x75mm treated pine timber edge on both sides of path
Finish	• Gravel to finish flushed with timber edges • Treated timber edges flushed with adjacent surfaces to avoid tripping hazard • Ensure no depression or rutting in gravel surface
Installation	• As per construction detail on page 2
Maintenance Tasks	• Clean litter and top up gravel as necessary to deter ruts and depression points
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Tooboorac gravel from Rocla (or similar approved)
Heritage Comments	• None
Optional Extra	• None
Comments	

Footpath - Granitic Gravel with Timber Edge

CONSTRUCTION DETAILS



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Granitic Gravel Surface

DESIGN STATEMENT

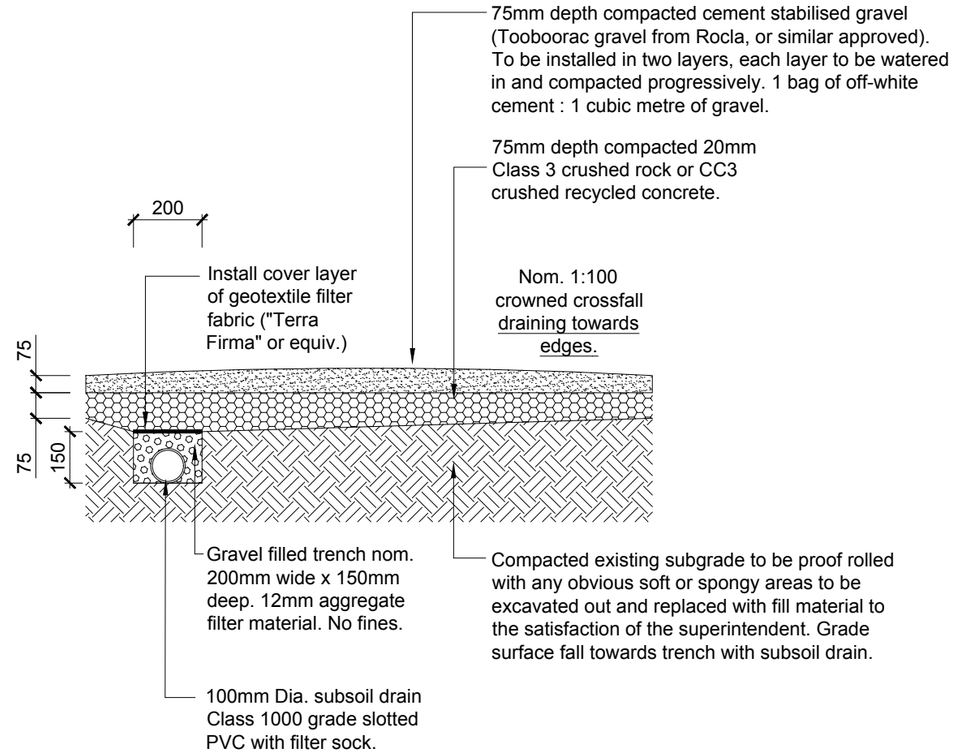
Gravel Mulch are used on paths as a permeable surface .

OS 002 applies to:
- Open Space

Element	Granitic Gravel Surface (large areas)
Materials	• 75mm depth stabilised granitic gravel (no stones) installed in two layers. • 75mm depth Class 3 FCR • 38x75mm treated pine timber edge • 90/100mm slotted PVC Agricultural drainage pipe *
Finish	• Provide crown in paths for drainage • Finish flush with timber edges and adjacent surfaces
Installation	• Install as per construction detail
Maintenance Tasks	• Top up levels to ensure free drainage and no ruts or depression in gravel surfaces
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• 'Tooboorac' granitic gravel from Rocla (or similar approved)
Heritage Comments	• None
Optional Extra	• None
Comments	• Recommended drainage inclusion where possible*

Granitic Gravel Surface

CONSTRUCTION DETAILS



SECTION

Granitic Gravel

Notes:
1. Detail not to scale
2. Indicative only

Footpath - Concrete Recreational Path

DESIGN STATEMENT

The Recreational Concrete Path is a wide reinforced concrete path, enabling cyclists and pedestrians to comfortably share the path. The materials and finish produce a smooth surface texture, suitable for a variety of users including prams and limited mobility users. To be used within open space areas across the Municipality.

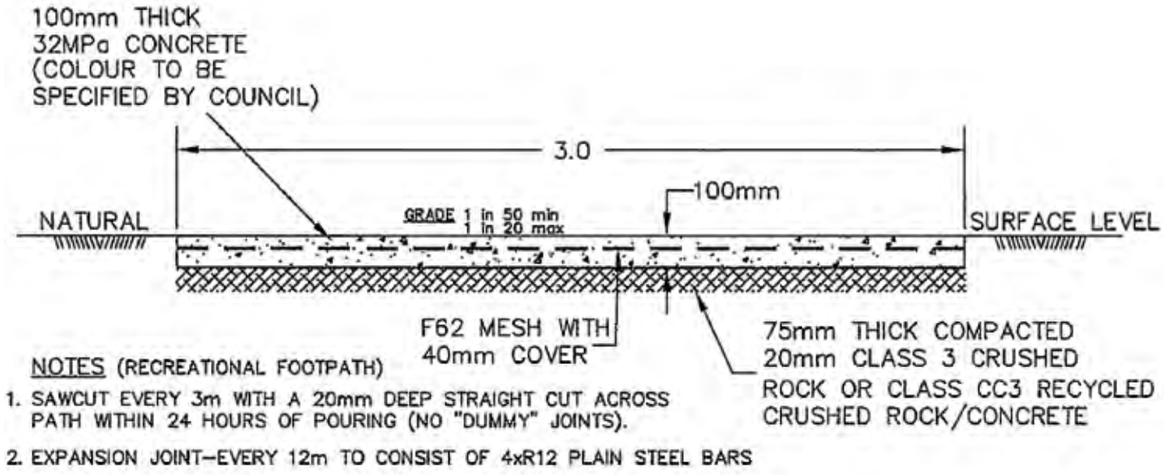
OS 003 applies to:
- Open Space

Element	Footpath - Concrete Recreational Path
Materials	• 100mm 32 Mpa reinforced 'Charcoal' grey concrete with colour admixture. • 75mm depth 20mm Class 3 crushed rock base
Finish	• Light broom finish to edge • 'Charcoal' concrete admixture: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • Line marking to VicRoads standards (80mm continuous white line edge marking and broken centre line marking for bicycle paths to VicRoads standards.
Installation	• Install as per MCC Standard Drawing 2012 - SD.X10 (Revision C) • 1.0m Lateral clearance • 2.4m Vertical clearance • Typical path dimension: 2m (standard shared use path / standard pedestrian path / one way bicycle path) 2.5m (minimal for local shared use access / two way bicycle path with line marking) 3.0m (main bicycle trail with line marking) • Shared use Path Signs and End Shared Path Signs
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council • River and waterway trails network
Supplier	• N/A
Heritage Comments	• Not appropriate in heritage locations.
Optional Extra	• Service vehicle cross points (150mm thick, yellow paint edge highlights colours to VicRoads standards)
Comments	• Refer to VicRoads Traffic Engineering Manual Vol.1 Chapter 5 Bicycle Facilities • Refer to VicRoads Traffic Engineering Manual Vol.2 Chapter 15 Table 15.1 Line Marking

Footpath - Concrete Recreational Path

CONSTRUCTION DETAILS

MCC Standard Drawing 2012 - SD.X10 (Revision C).



Section

Note:
Line marking as specified in the project by the Landscape Architect

Edge Detail - Concrete Edge

DESIGN STATEMENT

Edge Detail help define different activity areas within open space, assist with the management of vegetation and landscaping, and reduce long term maintenance costs.

Concrete edging can act as an attractive yet cost effective edging solution.

It is important that the appropriate edging material be used, suitable for the abutting surface and subsoil treatments and consistent with any existing Edge Detail.

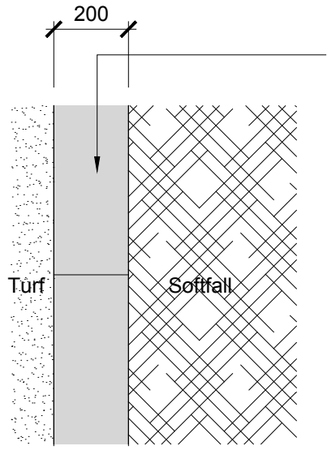
To be used within open space areas across the Municipality.

OS 004 applies to:
- Open Space

Element	Edge Detail - Concrete Edge
Materials	• Trowelled charcoal coloured concrete. • Charcoal concrete specification: 1 x 25 kg bag of Bayer Black Powder per cubic metre of concrete, or 1 x 10kg bag per 3 cubic metres of concrete. Colour: Parchem 'Avista - Black' (or similar approved by Council). • 150mm consolidated Class 3 crushed rock base.
Finish	• Trowelled finish.
Installation	• Install as per Construction detail on page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• None specified
Heritage Comments	• Do not use in heritage parks unless associated with new interventions outside formal boundaries.
Comments	• All Edge Detail should be constructed in accordance with the relevant Edging Construction Details. Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Edge Detail - Concrete Edge

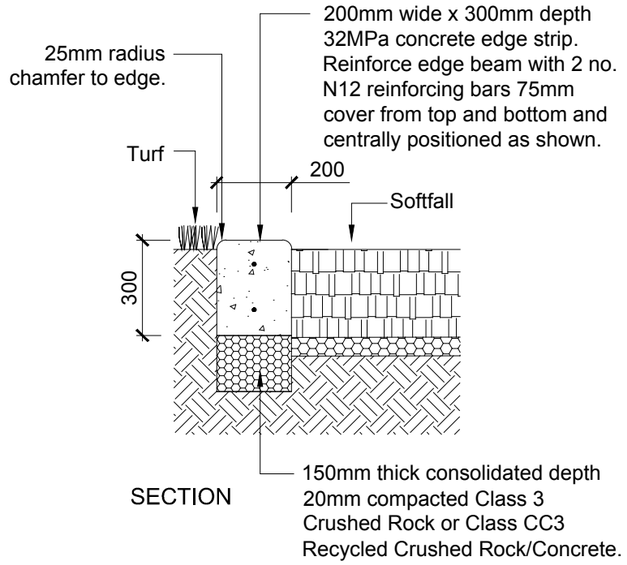
CONSTRUCTION DETAILS



200mm wide x 300mm depth 32MPa concrete edge strip. Sawcut strip every 3 metres with a 20mm deep cut straight across edge within 24 hours of pouring.

PLAN

Notes:
Expansion joints to be installed every 12 metres with 4 x R12 plain steel bars (bond breaker on one side of joint). This joint will include bitumen impregnated fibre (or approved equivalent).



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Timber Edge

DESIGN STATEMENT

Treated pine edging can be used to frame and delineate curved and straight boundaries between various surface treatments such as garden beds, lawn and porous pavings.

Timber should be free of defects, such as splits and warps and have a high level of durability (H4 rated).

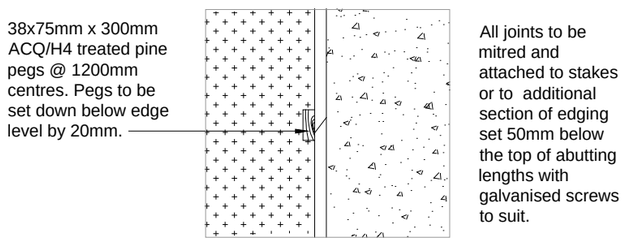
It is important that the appropriate edging material be used, suitable for the abutting surface and subsoil treatments and consistent with any existing Edge Detail.

OS 005 applies to:
- Open Space

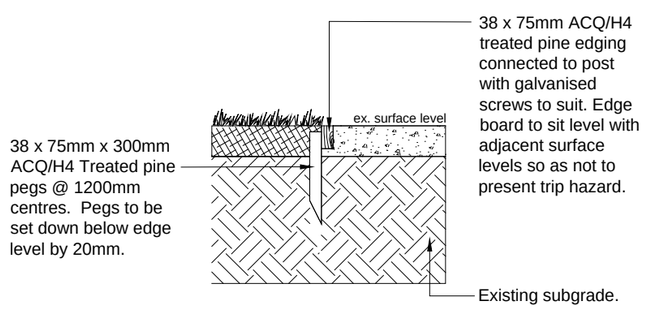
Element	Edge Detail - Timber
Materials	• 38mm x 75mm x 300mm ACQ/H4 Treated Pine Pegs • 38mm x 75mm ACQ/H4 Treated Pine Edging • Galvanised screws.
Finish	• Timber edges shall be flushed with adjacent finished levels
Installation	• Install as per construction detail on page 2. • Use only galvanised steel screws. No nails to be used.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council • Also refer to tree bays in streetscape applications (SF 603).
Supplier	• None specified.
Heritage comments	• None.
Optional Extra	• Not for use as sleeper eding or retaining walls. Refer to OS 004 for appropriate detail.
Comments	• If budget is limited, consider Spade Cut Edge (OS 008).

Edge Detail - Timber Edge

CONSTRUCTION DETAILS

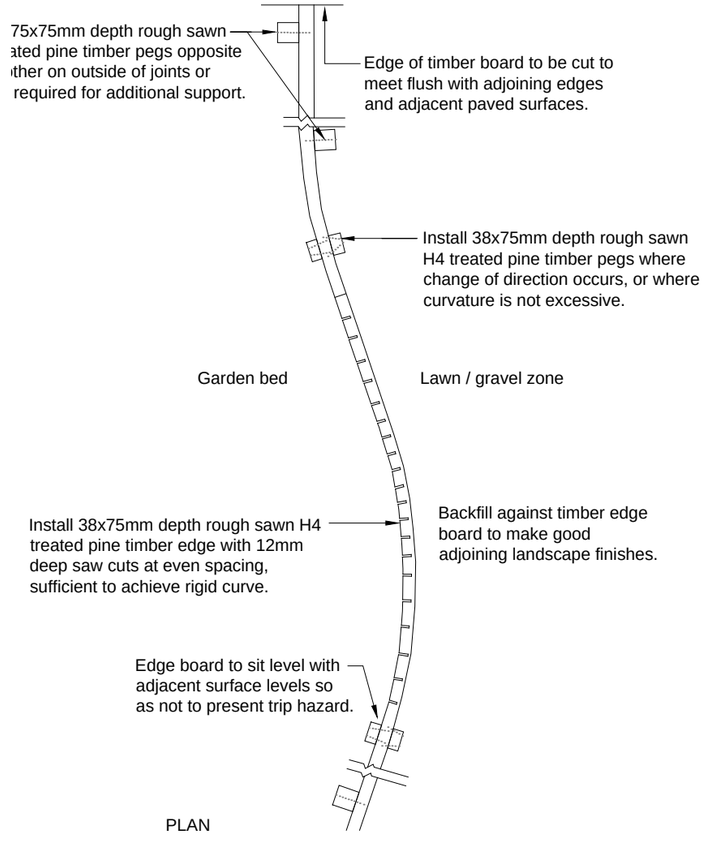


PLAN



Notes:
Timber to be straight, free of warps, splits, splinters or other defects.

SECTION



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Timber Sleeper Edge

DESIGN STATEMENT

Edge Detail help define different activity areas within open space, assist with the management of vegetation and landscaping, and reduce long term maintenance costs.

Sleeper edges should be used as retaining walls on raised garden beds and landscaping areas.

It is important that the appropriate edging material be used, suitable for the abutting surface and subsoil treatments and consistent with any existing Edge Detail.

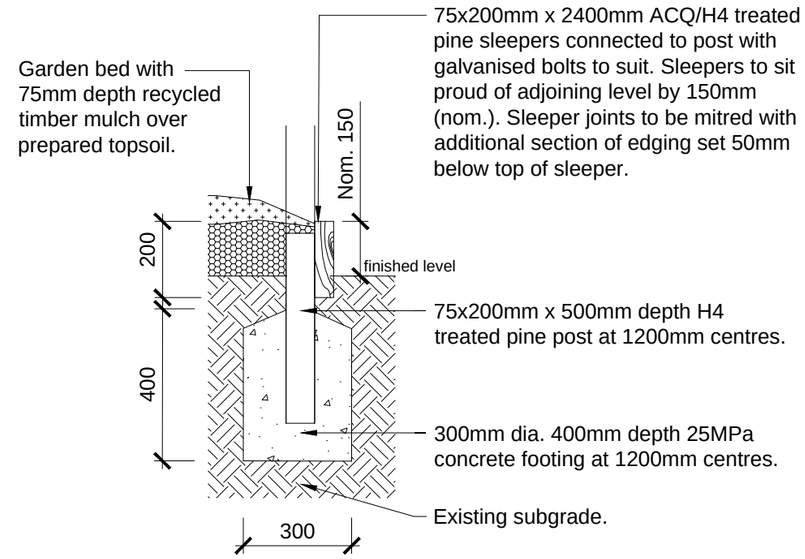
To be used within open space areas across the Municipality.

OS 006 applies to:
- Open Space

Element	Edge Detail - Sleeper
Materials	• 75mm x 200mm ACQ Treated Pine Sleepers raised 150mm above finished surface level • 75 x 200 x 500mm H4 Treated Pine Post @1200mm centres • 25Mpa Concrete footing at base of posts • Galvanised screws and bolts fixing. No nails to be used. • Refer to Construction detail on page 2.
Finish	• Finished levels are critical in achieving the design intent and use of timber edge sleeper retaining walls • Set posts/pegs 50mm below top of sleeper edge • Sleeper retaining walls set 150mm above finished levels.
Installation	• Install as per Construction detail on page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council
Supplier	• None specified
Heritage Comments	• None
Optional Extra	• None
Comments	• Consider the bulk of earth retaining and tree planting prior to applying this retaining method.

Edge Detail - Timber Sleeper Edge

CONSTRUCTION DETAILS



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Spade Cut Grass Edge

DESIGN STATEMENT

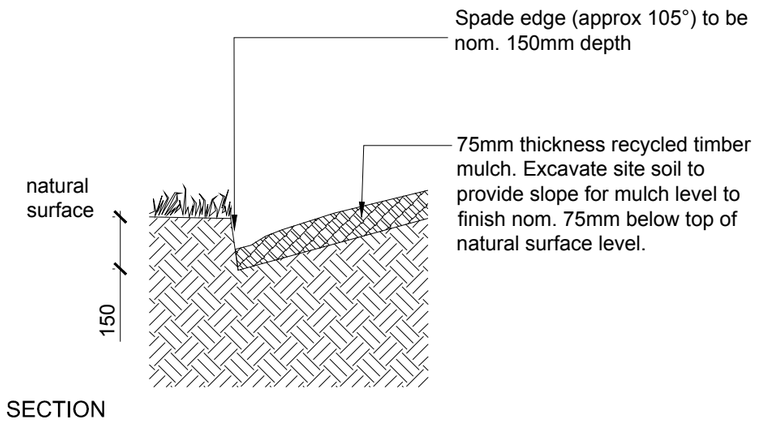
Spade/Grass edge is an effective solution to garden and grass interfaces where budget if constrained.

OS 007 applies to:
- Open Space

Element	Spade Cut Grass Edge
Materials	
Finish	
Installation	• Install as per construction detail.
Maintenance Tasks	• Repair as required
Recommended Use	• A cost effective solution where garden beds and grass interface
Supplier	• Not applicable
Heritage Comments	• Use In heritage Parks and gardens only
Optional Extra	• None
Comments	• All Edge Detail should be constructed in accordance with the relevant Edging Construction Details. Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Edge Detail - Spade Cut Grass Edge

CONSTRUCTION DETAILS



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Steel Edge

DESIGN STATEMENT

Edge Detail help define different activity areas within open space, assist with the management of vegetation and landscaping, and reduce long term maintenance costs.

Steel edging can act as an edging treatment, and be placed as natural features of the landscape.

It is important that the appropriate edging material be used, suitable for the abutting surface and subsoil treatments and consistent with any existing Edge Detail.

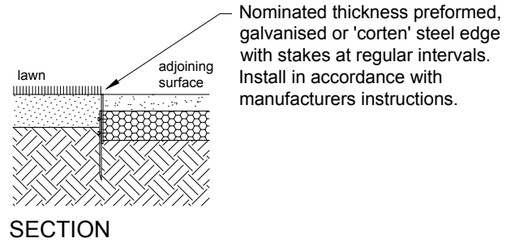
To be used within open space areas across the Municipality.

OS 008 applies to:
- Open Space

Element	Edge Detail - Steel Edge
Materials	• 1.6 - 2.5mm thick pre-formed galvanised or ‘Corten’ steel edge with stakes at intervals as specified.
Finish	
Installation	• Install as per construction detail page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Installed insitu by approved MCC supplier or approved equivalent
Heritage Comments	• None
Optional Extra	• None
Comments	• All Edge Detail should be constructed in accordance with the relevant Edging Construction Details. Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Edge Detail - Steel Edge

CONSTRUCTION DETAILS



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Bluestone Pitcher Edge

DESIGN STATEMENT

Edge Detail help define different activity areas within open space, assist with the management of vegetation and landscaping, and reduce long term maintenance costs.

Bluestone edging should be used as a flush edge between turf, timber mulch, porous paths and playground boundaries. This edging should be levelled and flushed with adjacent surfaces to prevent tripping hazardous. Raised edging can be used to define garden beds in heritage parks.

It is important that the appropriate edging material be used, suitable for the abutting surface, subsoil treatments and consistent with any existing Edge Detail.

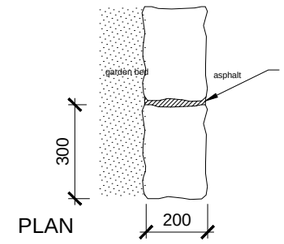
To be used within open space areas across the Municipality.

OS 009 applies to:
- Heritage Sites
- Open Space (as a selected feature)

Element	Bluestone Pitcher Edge
Materials	• 200x300x150mm (nom) Bluestone Pitcher Edge (recycled where possible) • Mortar grouting with max. 20mm space between pitchers. • 75mm deep of 20Mpa low slump concrete bedding • Refer to Construction detail on page 2.
Finish	• Flush with surrounding adjacent surfaces. • Quarried pitchers • Mortar to be filled with flush finish. Refer to Construction Detail for mortar mix.
Installation	• Install as per Construction detail on page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• None specified.
Heritage Comments	• In heritage parks, mortar to be held back from stone face..
Comments	• All Edge Detail should be constructed in accordance with the relevant Edging Construction Details. Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Edge Detail - Bluestone Pitcher Edge

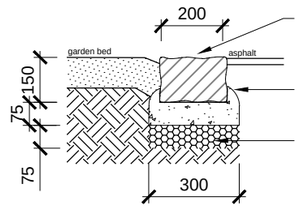
CONSTRUCTION DETAILS



PLAN

20mm (max.) joint between pitchers. Joint to be finished flush with mortar grout.

Mortar mix:
1 part cement
3 parts sand
$\frac{1}{8}$ part black oxide (Parchem 'Avista - Black')

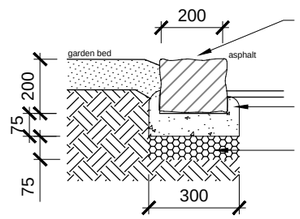


200mm high x 150mm wide bluestone pitcher (typical).

75mm depth 20MPa low slump concrete bedding with haunch.

75mm depth compacted 20mm Class 3 crushed rock or Class CC3 recycled crushed concrete.

SECTION - FLUSH EDGE



200mm high x 200mm wide bluestone pitcher (typical) set 100mm above adjoining path surface.

75mm depth 20MPa low slump concrete bedding with haunch.

75mm depth compacted 20mm Class 3 crushed rock or Class CC3 recycled crushed concrete.

SECTION - RAISED EDGE

Notes:
1. Detail not to scale
2. Indicative only

Edge Detail - Basalt Field Stone Edge

DESIGN STATEMENT

Edge Detail help define different activity areas within open space, assist with the management of vegetation and landscaping, and reduce long term maintenance costs.

Basalt field stone edging should be used between garden beds, turf, timber mulch and porous paths.

It is important that the appropriate edging material be used, suitable for the abutting surface, subsoil treatments and consistent with any existing Edge Detail.

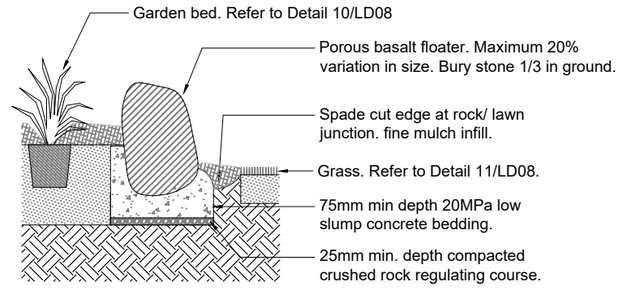
To be used within open space areas across the Municipality.

OS 010 applies to:
- Heritage Sites
- Open Space (as a selected feature)

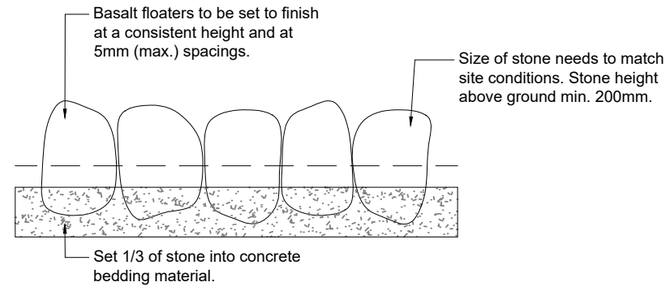
Element	Basalt Field Stone Edge
Materials	Materials vary and should follow specifications as per selected construction detail on page 2. • Porous Basalt Field Stones • 75mm deep of 20Mpa low slump concrete bedding
Finish	• Basalt field stones to be set to finish at consistent height and at 5mm (max). spacings. • Mortar grouting with typical 5mm space between floaters.
Installation	• Install as per construction detail on page 2.
Maintenance Tasks	• Repair as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• None specified.
Heritage Comments	• Mortar Note . Historically mortar jointing was not used in this edging detail. Stone selection should be random and not less than 200mm high (no 'gappy' teeth). If mortar is to be used, use at the back of the edging. • New work should match best practise exemplars of existing edging with the Park.
Comments	• All Edge Detail should be constructed in accordance with the relevant Edging Construction Details. Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Edge Detail - Basalt Field Stone Edge

CONSTRUCTION DETAILS



SECTION



FRONT ELEVATION

Notes:
1. Detail not to scale
2. Indicative only

Footpath - Asphalt Pathway

DESIGN STATEMENT

The Asphalt pavement is a heritage feature path, enabling cyclists and pedestrians to comfortably share the path. The materials and finish produce a smooth surface texture, suitable for a variety of users including prams and limited mobility users. To be used primarily in heritage parks and open space areas across the Municipality.

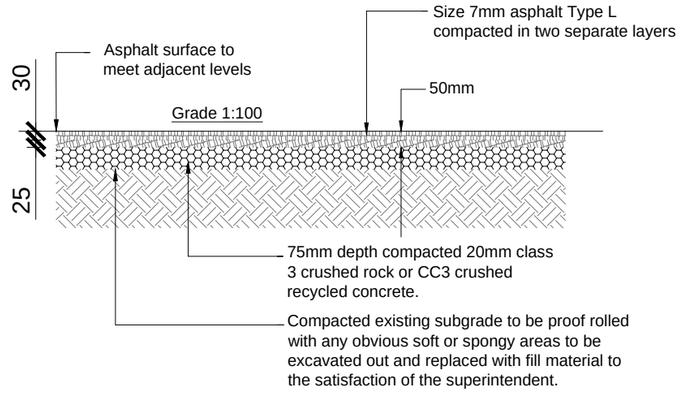
OS 011 applies to:

- Open Space (Heritage Parks)

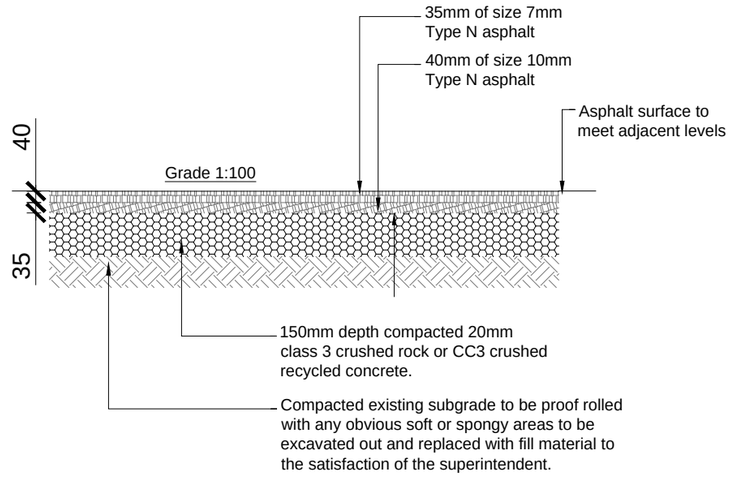
Elements	Asphalt Pavement
Materials	• Refer to construction detail.
Finish	• Finish flush with surrounding surfaces.
Installation	• Install as per construction detail.
Maintenance Tasks	• Repair as required.
Recommended Use	
Supplier	• None specified
Heritage Comments	• This surface treatment is primarily for use in heritage parks eg. Footscray Park & Yarraville Gardens
Optional Extra	• None
Comments	

Footpath Detail - Asphalt Pathway

CONSTRUCTION DETAILS



SECTION - PEDESTRIAN PAVEMENT (NO VEHICLES)



SECTION - TRAFFICABLE PAVEMENT

Notes:

1. Detail not to scale
2. Indicative only

Mulch Details - Timber Mulch

DESIGN STATEMENT

Timber Mulch are used in garden beds to retain moisture, suppress weeds and protect tree and shrub planting. Size and type of timber mulches varies depending on the type and scale of landscaping and should be specified according to its need. Ensure the appropriate mulch type is specified to achieve maximum garden bed performance.

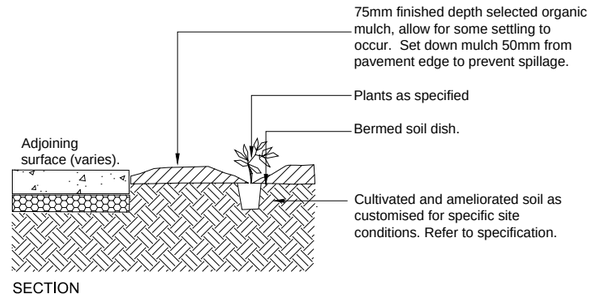
To be used within open space areas across the Municipality.

OS 012 applies to:
- Open Space

Elements	Timber Mulch
Materials	• Pine Bark mulch for exotic landscape and established planting areas. • Chipped native mulch ie 'Eu-Mulch' or recycled timber for native garden beds & revegetation projects.
Finish	
Installation	• Install as per construction detail.
Maintenance Tasks	• Mulched garden beds need to be renewed every 2 years
Recommended Use	• 75mm depth Pine Bark mulch for exotic landscape and established planting areas • 50mm depth 6-10mm Pine Bark Mulch for high profile gardens. • 75-100mm depth Eu-Mulch for native garden beds.
Supplier	• Moss Rock / Oasis Garden Supply / Fultons / Evetts Building and Garden Suppy (or various approved suppliers)
Heritage Comments	• None
Optional Extra	• None
Comments	

Mulch Detail - Timber Mulch

CONSTRUCTION DETAILS



SECTION

6-10mm Pine Bark Mulch

12-20mm Pine Bark Mulch

Eu Mulch

MR12 Recycled Timber Mulch

MR20mm Recycled Timber Mulch

Notes:
1. Detail not to scale
2. Indicative only

Playground Surface - Timber Softfall

DESIGN STATEMENT

Softfall mulch is typically used in playgrounds to minimise the impact of injuries upon contact.

It is important that softfall mulch depths and materials comply to approved standards, ensuring risk for injuries to occur are minimised.

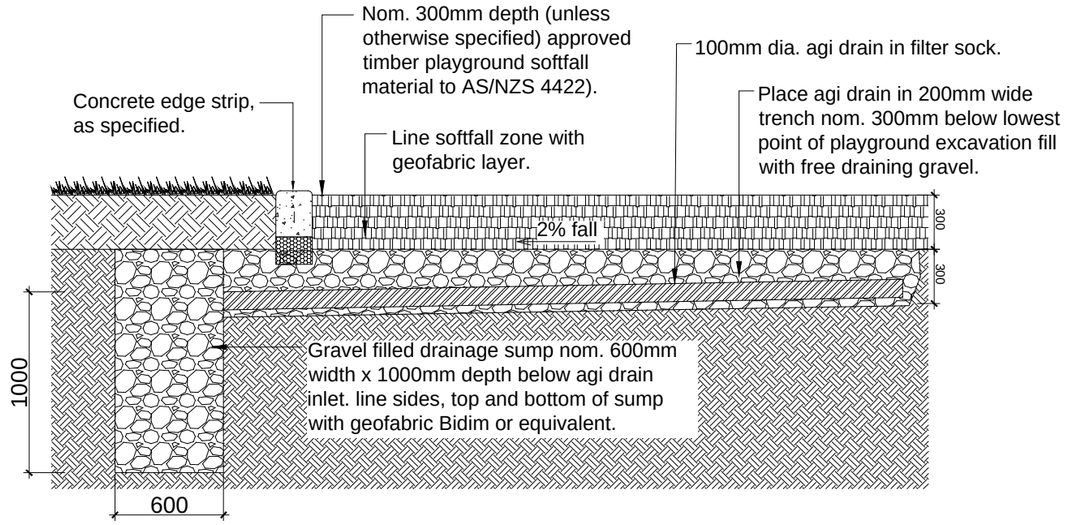
To be used within open space areas playgrounds, kindergartens, play space and fitness stations across the Municipality.

OS 013 applies to:
- General Municipality
- Open Space

Element	Softfall
Materials	Playground softfall • Shredded pine wood mulch specifically produced for playgrounds and tested to comply with requirements for impact absorption AS/NZS 4422:1996. Minimum 300mm depth, allowing for topup once settling occurs.
Finish	• To all play surround flushed with timber or concrete edges
Installation	• Refer to construction detail on page 2 • Refer to Australian Standard AS/NZ 4422.1996
Maintenance Tasks	• Top up pine much every two years • Regular inspections to ensure level are maintained, especially under swings and slide exits.
Recommended Use	Pinewood timber softfall • For larger area play spaces • Inexpensive surface treatment
Supplier	• Evetts Building and Garden Supply / Fultons Pty Ltd / Oasis Garden Supply / Moss Rock or approved equivalent.
Heritage Comments	• None
Optional Extra	• 100mm dia slotted agricultural drainage pipes*
Comments	• Refer to AS/NZ 4422.1996 Standards

Playground Surface - Timber Softfall

CONSTRUCTION DETAILS



SECTION

Notes:
1. Detail not to scale
2. Indicative only

Playground Surface - Wet Pour Rubber

DESIGN STATEMENT

Wet Pour Rubber surfacing is typically used in playground and or fitness stations to minimise the impact of injuries upon contact.

It is important that surfacing complies to approved standards to ensure risk to injuries are minimised.

To be used within open space areas playgrounds, kindergartens, play space and fitness stations across the Municipality.

OS 014 applies to:
- General Municipality
- Open Space

Element	Wet Pour Rubber Suface
Materials	• 1-3mm rubber granules mixed with coloured pigment & UV stabilisers • Install to manufacturer's specification
Finish	
Installation	• To Australian Standard AS/NZ 4422:1996 & AS 4685:2004 • Refer to Manufacturer's specifiaction • Design to satisfy all fall zone & height requirements.
Maintenance Tasks	• None
Recommended Use	• For high traffic zones - under swings, slide exits and other wear zones. • Fitness Stations
Supplier	• Various suppliers
Heritage Comments	• None
Optional Extra	
Comments	

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Open Space Seat

DESIGN STATEMENT

The ‘Albert Park Seat’ provides a traditional seat design that integrates a unique timber design with a curved metal steel frame. To be used within open space areas across the Municipality.

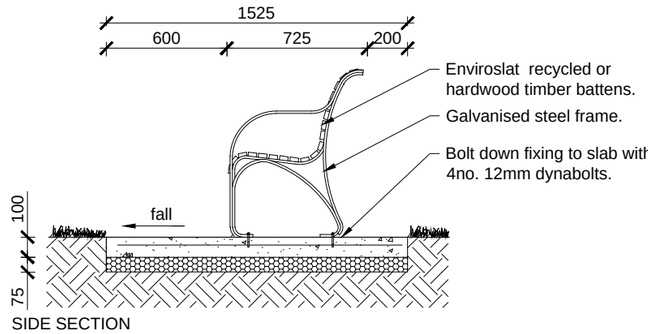
The seat includes a powdercoated or galvanised steel frame and blackbutt timber or EnviroSlat composite recycled slats.

OS 201 applies to:
- Open Space

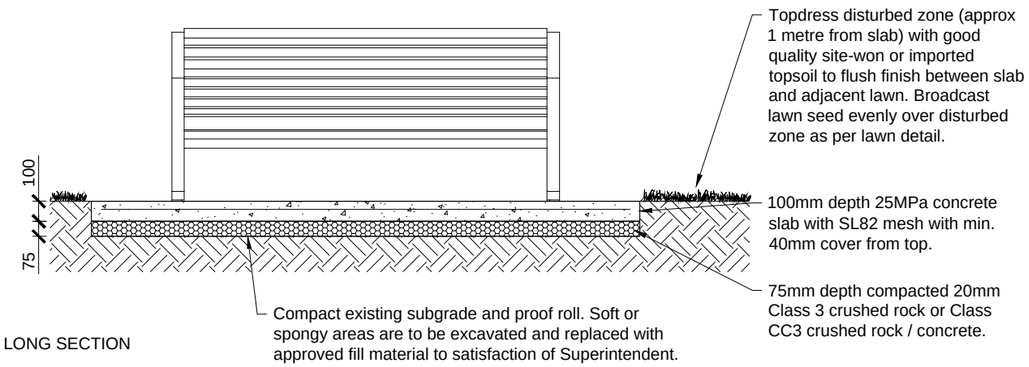
Element	Open Space Seat
Materials	• Mild Steel • EnviroSlat composite recycled plastic. • Blackbutt timber slats
Finish	• Galvanised steel finish • Powdercoated finish in heritage locations (Dulux - Brunswick Green or Black) • Quantum Oil on hardwood timber slats.
Installation	• Seat to be bolted onto concrete slab as per construction detail on page 2.
Maintenance Tasks	• Hand clean as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Commercial Systems Australia Pty. Ltd. Ph: 03 9723 4111 ‘Albert Park Seat’ Product Code: TM4064. • Draffin Street Furniture Pty Ltd. Ph: 1300 372 411 ‘Deluxe Seat’ Product code: 87896 • (or approved equivalent)
Heritage Comments	• Steel frame to be powdercoated with black for Heritage Parks ie Footscray Park / Yarraville Gardens
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Open Space Seat

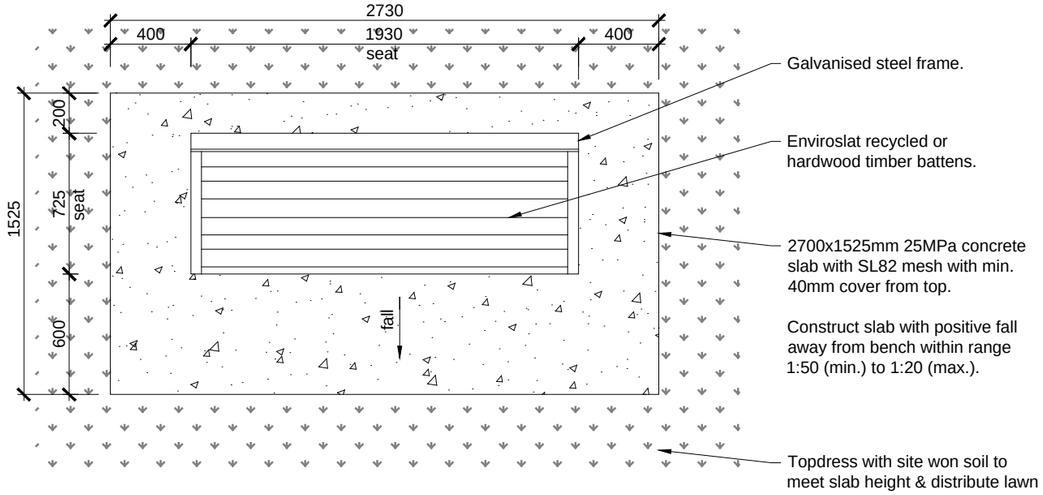
CONSTRUCTION DETAILS



SIDE SECTION



LONG SECTION



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Open Space Bench

DESIGN STATEMENT

The Hobsons Bench Seat provides a contemporary design and versatile seating arrangement. This seat is an ideal combination of durable materials. The seat is to be located throughout open space areas within the Municipality.

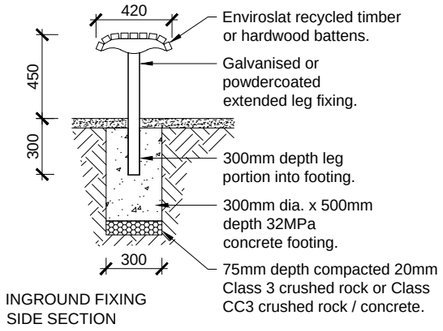
The seat includes a powdercoated or galvanised steel frame and blackbutt timber or EnviroSlat composite recycled slats.

OS 202 applies to:
- Open Space

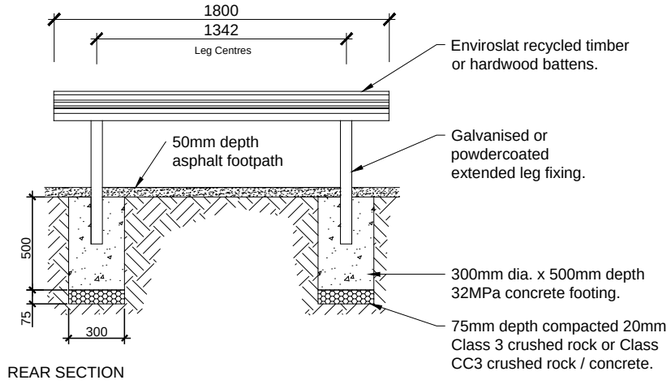
Element	Open Space Bench
Materials	• Mild steel frame and legs • EnviroSlat composite recycled plastic slats • Blackbutt timber slats
Finish	• Galvanised steel finish to legs and frame • Bolt down or extended leg installation options • Powdercoated finish in heritage locations (Dulux - Brunswick Green or Black) • Quantum Oil on hardwood timber slats.
Installation	• Refer to manufacturers specifications and drawing 0S 202 on page 2.
Maintenance Tasks	• Hand clean as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Commercial Systems Australia Pty. Ltd. Ph: 03 9723 4111 ‘Hobsons Bench’ Product Code: TM 4114 (or approved equivalent)
Heritage Comments	• Steel frame to be powdercoated with black for Heritage Parks ie Footscray Park / Yarraville Gardens
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Open Space Bench

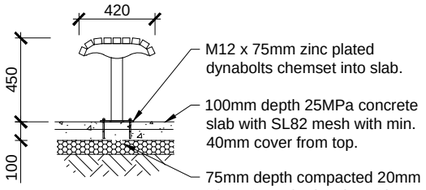
CONSTRUCTION DETAILS



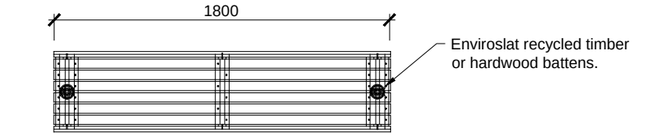
INGROUND FIXING
SIDE SECTION



REAR SECTION



BOLT DOWN FIXING
SIDE SECTION



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Picnic Setting

DESIGN STATEMENT

The Picnic Setting integrates the Albert Park table design with the versatile Hobsons Bench Seat, varying the manufactures original Albert Park Picnic Setting design. The contemporary design consists of durable steel and timber materials and is to be used in open space areas within the Municipality.

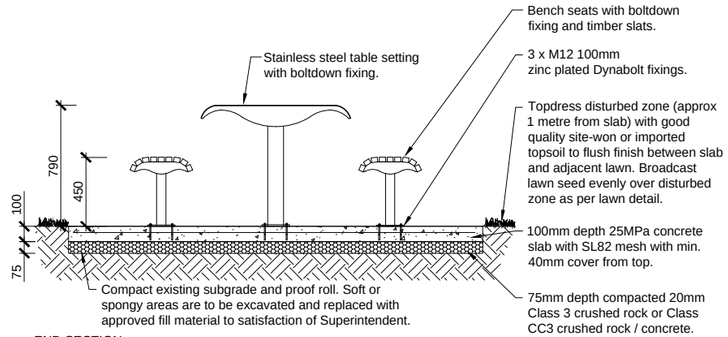
Materials include a stainless steel table top, mild steel frame leg pipes and blackbutt timber or EnviroSlat composite recycled slats for the seat

OS 203 applies to:
- Open Space

Element	Picnic Setting
Materials	• Table: 316 Grade stainless steel table top. • Table and Seat Frame: Mild steel frame and legs. • Seat: Blackbutt timber slats or EnviroSlat composite recycled plastic slats.
Finish	• Galvanised finish • PowderCoated (Dulux Powdercoat colour, as specified) frame and legs. • Quantum Oil on timber slats.
Installation	• Refer to manufacturers specifications and drawing 0S 203 on page 2.
Maintenance Tasks	• Hand clean as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Commercial Systems Australia Pty. Ltd. Ph: 03 9723 4111 Product Code: TM 4116 for Table Top/ TM 4114 for Seat Benches (or approved equivalent)
Heritage Comments	• Steel frame to be powdercoated with black for Heritage Parks ie Footscray Park / Yarraville Gardens
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Picnic Setting

CONSTRUCTION DETAILS



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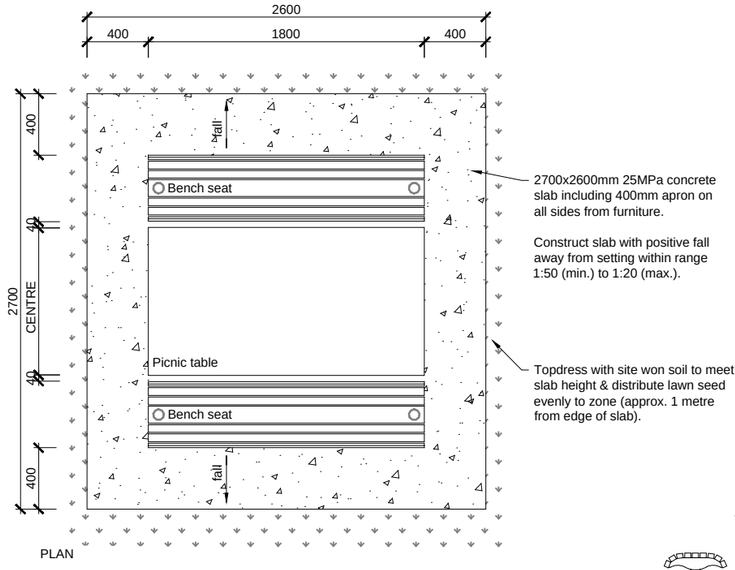
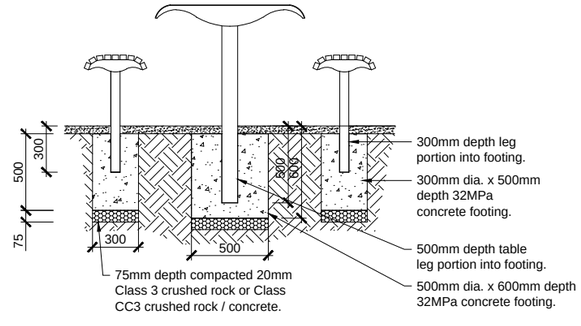


PLAN



INGROUND FIXING
SIDE SECTION

Notes:
1. Detail not to scale
2. Indicative only

Open Space Drinking Fountain

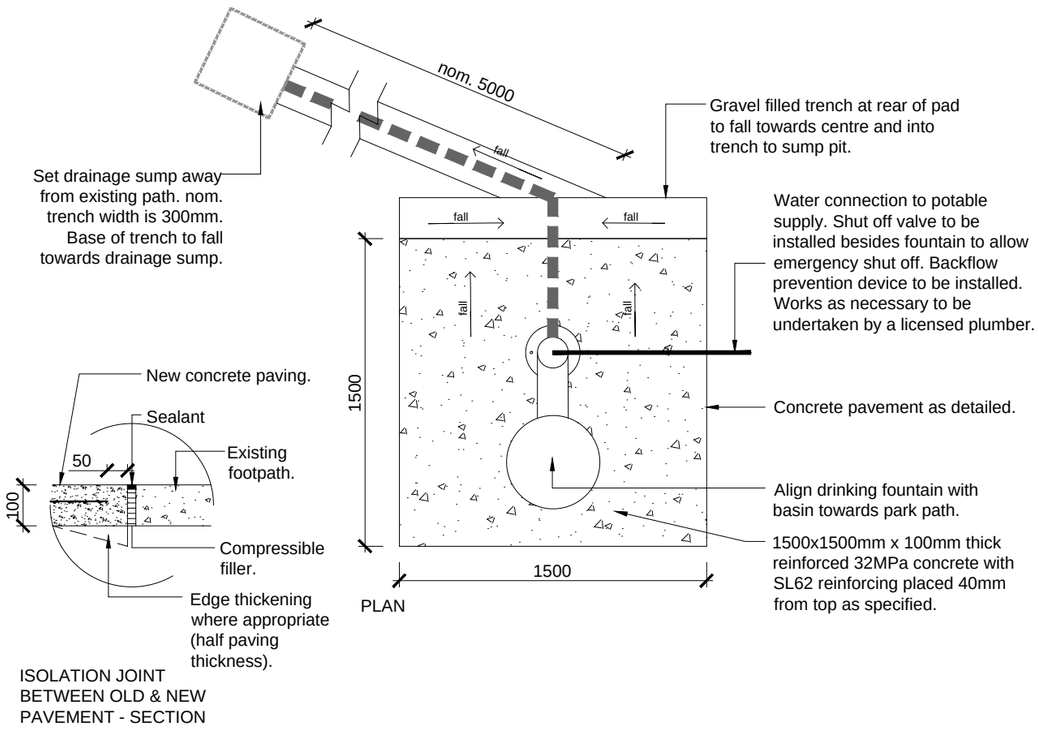
DESIGN STATEMENT
"Cascade" Wheelchair Accessible Drinking Fountain with Tap and Dog Bowl is an easy to operate water drinking and general access system. The contemporary and simple design will be supplied by Council and is to be used within open space areas across the Municipality.

OS 204 applies to:
- Open Space

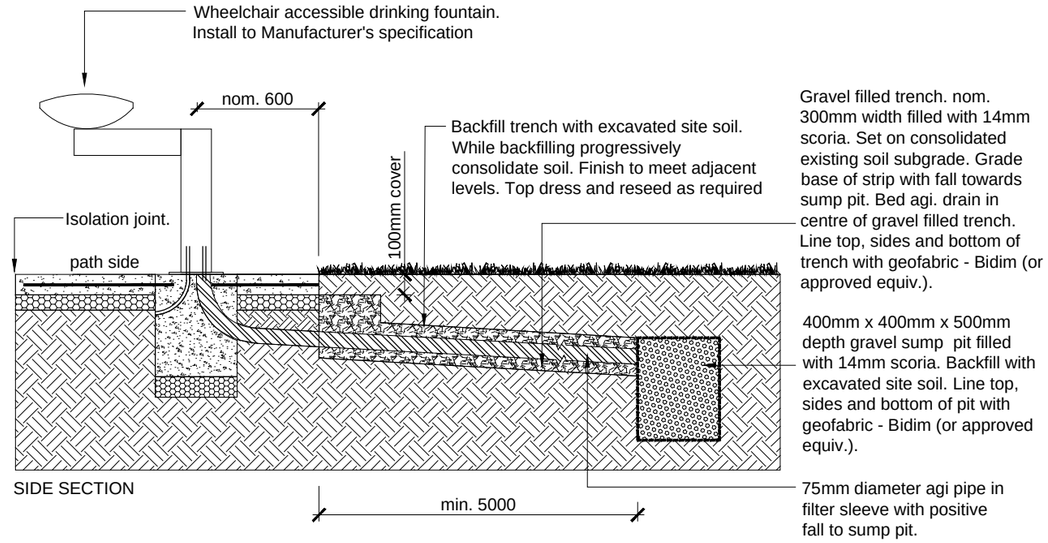
Element	Open Space Drinking Fountain with optional Tap and Dog Bowl
Materials	• Column (including dog bowl): Mild steel pipe • Bowl: Stainless steel and perforated top • Bubbler (Drinking tap): Stainless steel
Finish	• Powder coated finish - Colour: Dulux 'Black Satin' or 'Brunswick Green' • Stainless steel: Polished.
Installation	• Refer to manufacturers specifications and construction details on page 2.
Maintenance Tasks	• Clean regularly • Graffiti removal using non toxic product such as Guardian International Citrus product (or similar approved) as required. • Look for rusting, weak or damaged hinges and loose base fixing.
Recommended Use	• Recommended for use in Open Space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230 Product: 'Cascade' Drinking Fountain (or approved equivalent)
Heritage Comments	• Steel frame to be powdercoated with black for Heritage Parks ie Footscray Park / Yarraville Gardens
Optional	• Side tap and dog bowl.
Comments	• Cross reference with site layout drawings. • All queries should be clarified with Council prior to commencing works.

Open Space Drinking Fountain

CONSTRUCTION DETAILS



ISOLATION JOINT BETWEEN OLD & NEW PAVEMENT - SECTION



SIDE SECTION

Notes:
1. Detail not to scale
2. Indicative only

Barbecue

DESIGN STATEMENT
The double cooktop barbecue is accessible and easy to operate. The contemporary and simple design will be supplied by Council and is t0 be used within open space areas across the Municipality.

OS 207 applies to:
- Open Space

Element	Barbeque
Materials	• Christie Park Safe Modular Triple 2 x Electric Cooktop with push button activation (HMOD-E-3.2 • Stainless Steel Cook top aluminium frame, fibre cement cladding • To be installed to manufacturer's specification
Finish	• Aztec Silver / Deep Ocean for cladding
Installation	• Refer to manufacturers specifications and construction
Maintenance Tasks	• Clean regularly • Graffiti removal using non toxic product such as Guardian International Citrus product (or similar approved) as required. • Look for rusting, weak or damaged hinges and loose base fixing.
Recommended Use	• Recommended for use under shelter in Open Space areas within Maribyrnong City Council.
Supplier	• Christie Park Safe Ph: 1 300 135 227 Product HMOD-E-3.2 (or approved equivalent)
Heritage Comments	• None
Optional	• None
Comments	• Install to manufacturer's specification • To be bolted to concrete or asphalt surface

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Bin - 120 Litre General Litter Receptacle

DESIGN STATEMENT
The 120 litre general litter bin is recommended for use within the MCC Open Space and across the Municipality.

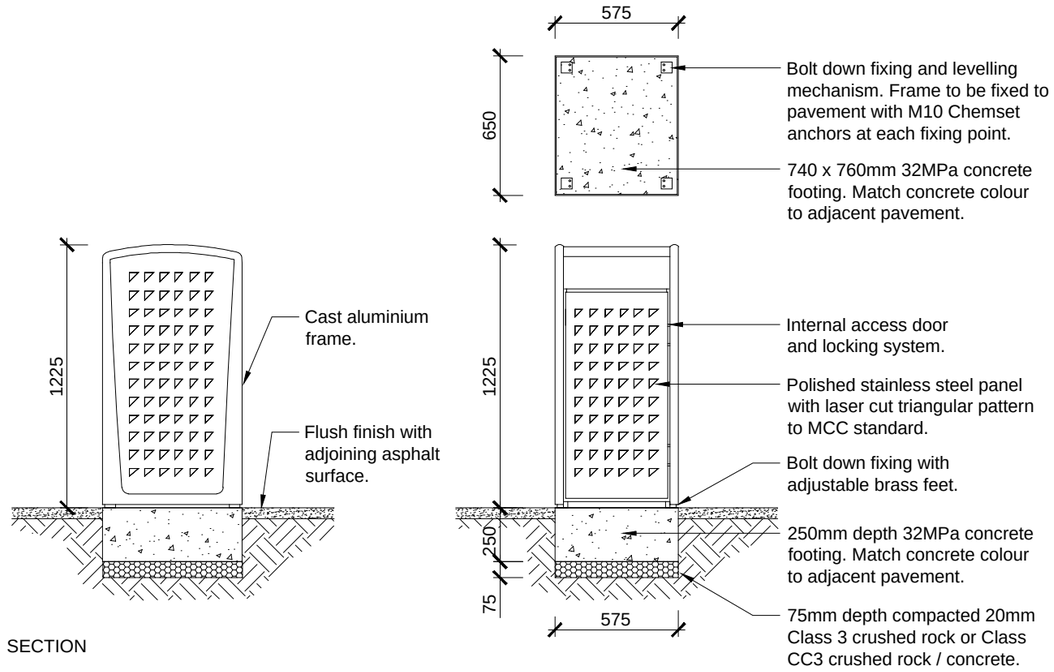
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

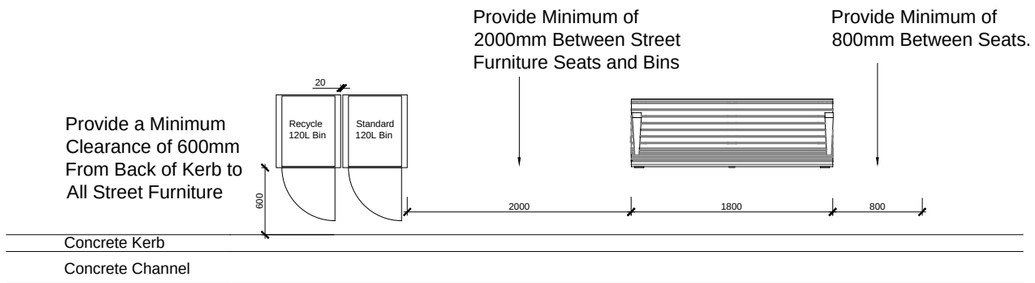
OS 301 applies to:
- Open Space

Element	• Bin - 120 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to Construction Details on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230 Product: Maribyrnong City Council Metro Litter Receptacle
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles maybe placed side by side.

Bin - 120 Litre General Litter Receptacle

CONSTRUCTION DETAILS





Notes:
1. Detail not to scale
2. Indicative only

Bin - 240 Litre General Litter Receptacle

DESIGN STATEMENT
The 240 litre general litter bin is recommended for use within the MCC Open Space and across the Municipality.

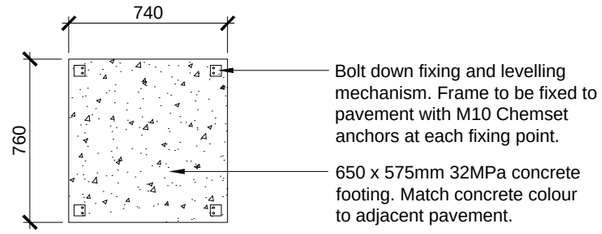
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

OS 302 applies to:
- Open Space

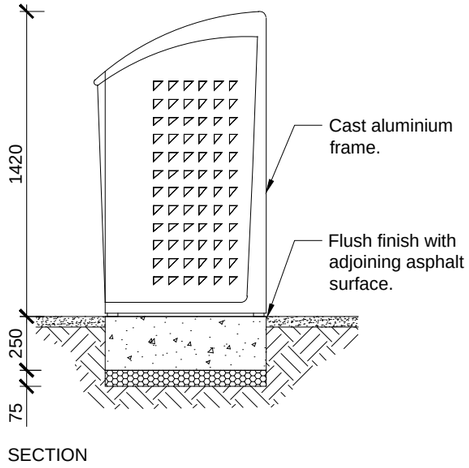
Element	• Bin - 240 Litre General Litter Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin.
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to Construction Details on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing.
Suppliers	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230 Product: Maribyrnong City Council Metro Litter Receptacle
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles maybe placed side by side.

Bin - 240 Litre General Litter Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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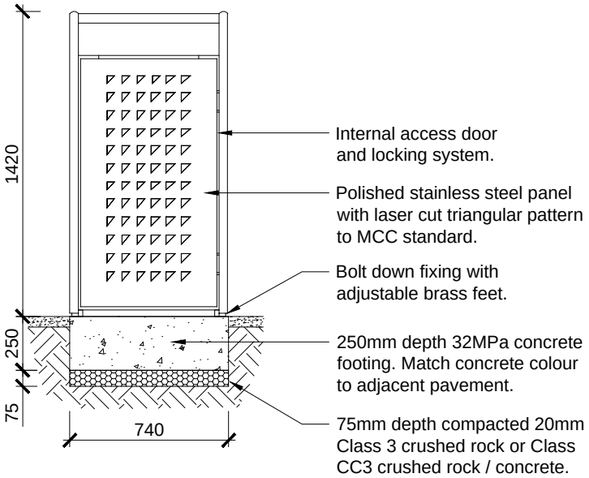
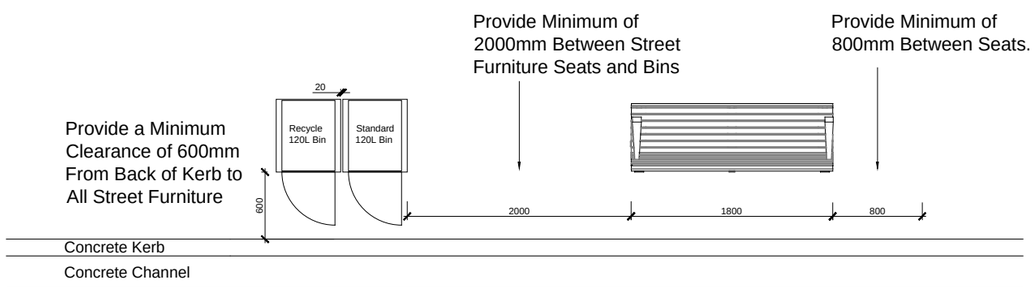




Notes:
1. Detail not to scale
2. Indicative only

Bin - 120 Litre Recycle Receptacle

DESIGN STATEMENT
The 120 litre Recycle Receptacle is recommended for use within the MCC Open Space and across the Municipality.

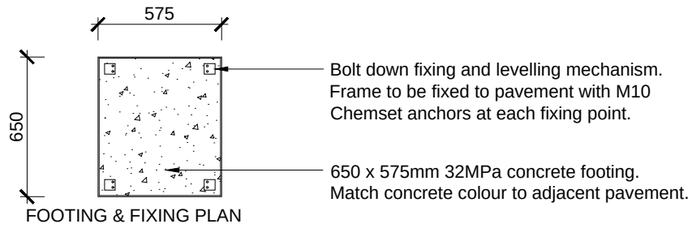
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

OS 302 applies to:
- Open Space

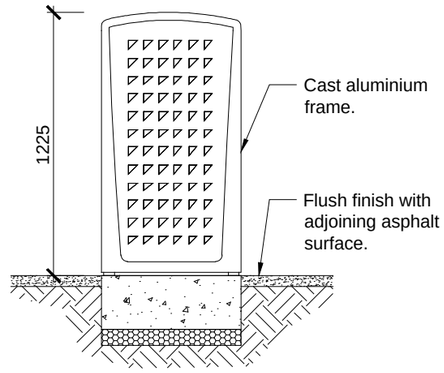
Element	• Bin - 120 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 120 litre plastic ‘wheelie’ bin. • Rubber ‘bottle’ insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to Construction Details on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230 Product: Maribyrnong City Council Metro Litter Receptacle
Heritage Comments	• None
Optional Extra	• None
Comments	• 120 litre recycle and general Litter Receptacles maybe placed side by side.

Bin - 120 Litre Recycle Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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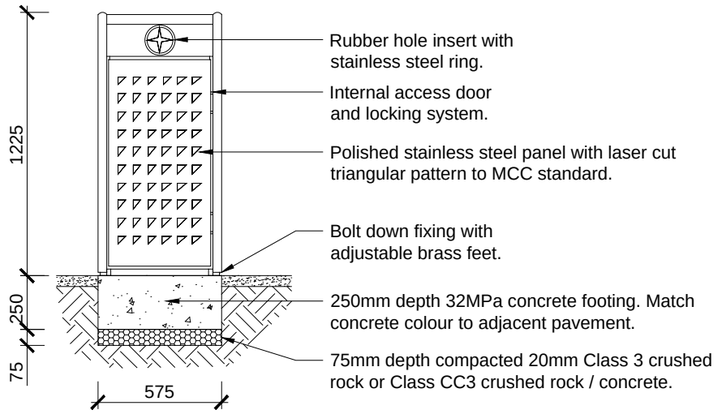
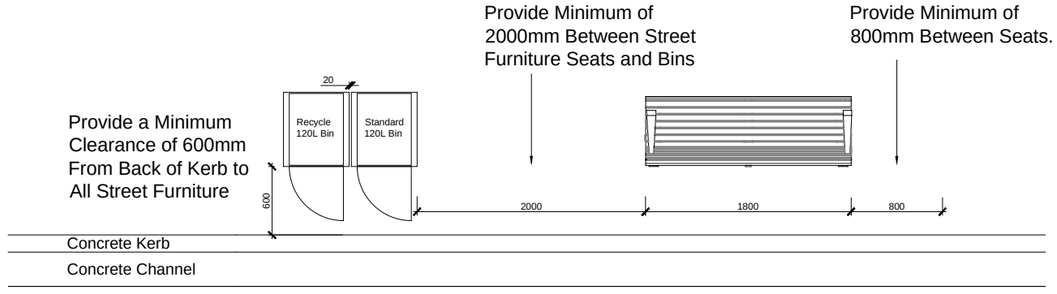




Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bin - 240 Litre Recycle Receptacle

DESIGN STATEMENT
The 120 litre Recycle Receptacle is recommended for use within the MCC Open Space and across the Municipality.

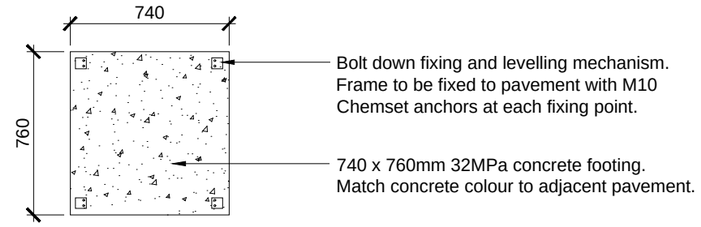
The bin is constructed from stainless steel with a triangular punch perforated sheet panels. The steel construction makes it an easy durable item to maintain.

OS 304 applies to:
- Open Space

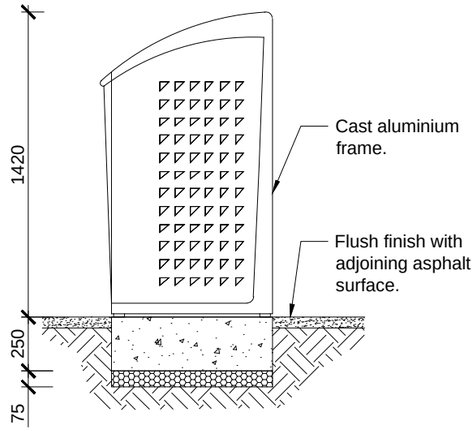
Element	• Bin - 240 Litre Recycle Receptacle
Materials	• Cast aluminium frame • 304 grade stainless steel sheet panels with custom triangle design • Front opening lockable door with key lock operation. • Bin enclosure holds 240 litre plastic 'wheelie' bin. • Rubber 'bottle' insert hole
Finish	• Cast aluminium frame • Milled 304 grade stainless steel sheet panels • Maribyrnong City Council custom design triangle cutouts to all panels.
Installation	• Bin access door to face the kerb. • Refer to Construction Details on page 2. • Frame to be fixed to pavement with M10 Chemset Anchors at each fixing point. • All joints to be rivets.
Maintenance Tasks	• Pressure clean interior and exterior of casing every 12 months. • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required. • Regularly check for rusting, weak or damaged hinges and loose base fixing
Recommended Use	• Recommended for use in all Activity Centres and open space areas within Maribyrnong City Council.
Supplier	• Furphy Foundry Pty. Ltd. Ph: 1300 768 230 Product: Maribyrnong City Council Metro Litter Receptacle
Heritage Comments	• None
Optional Extra	• None
Comments	• 240 litre recycle and general Litter Receptacles maybe placed side by side.

Bin - 240 Litre Recycle Receptacle

CONSTRUCTION DETAILS



FOOTING & FIXING PLAN



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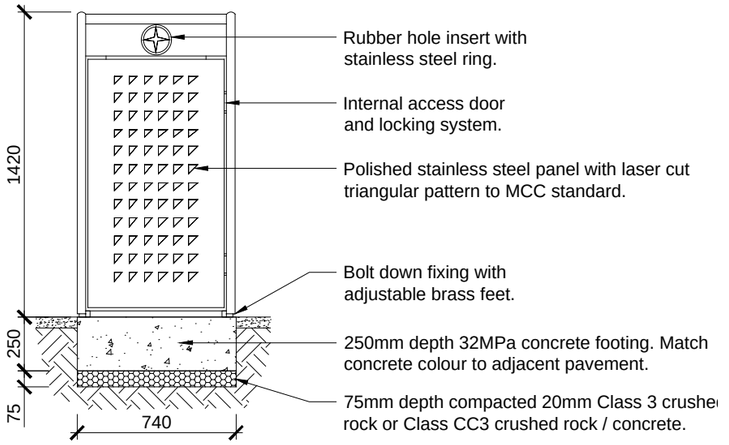
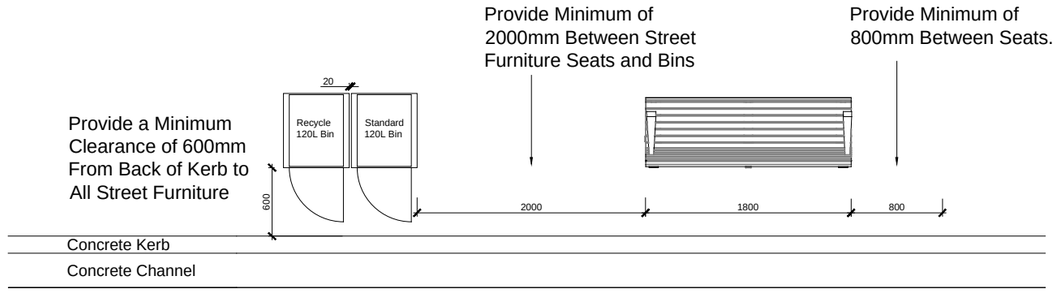




Notes:
1. Detail not to scale
2. Lid details may vary.
3. Indicative only

Bicycle Hoop - Standard Hoop

DESIGN STATEMENT
The standard bicycle hoop is designed and located to create a bicycle friendly environment throughout the urban areas of the Municipality.

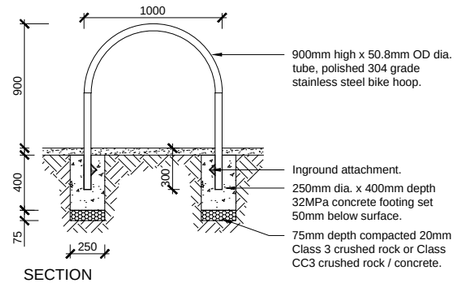
The bicycle hoop can be installed singularly or in groups as required, typically positioned at street corner, where footpath widths are available, and to meet the communities requirements.

OS 402 applies to:
- Local Activity Centres
- Open Space

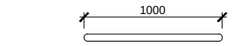
Element	• Bicycle Hoop - Standard Hoop
Materials	• Grade 304 stainless steel tube 50.8mm OD x 2.0mm wall.
Finish	• Polished stainless steel.
Installation	• Refer to construction detail on page 2. • Cored installation option in concrete pavement areas, approx 200mm dia core with high strength grout infill. • Bolt down installation if required to suit application and location only. Flanged Footing. • When being installed in existing pavements neatly saw cut and make good paving following installation with 25mm of asphalt cover, on concrete or granitic gravel.
Maintenance Tasks	• Replace as necessary.
Recommended Use	• Along bikepaths, rest stops etc
Supplier	• Various suppliers including Furphy Foundry Pty. Ltd. Ph: 1300 768 230 or approved equivalent
Comments	• A minimum pedestrian thoroughfare must be maintained at all times of 1.5 metres from the building line. • Setout in accordance with layout plan on page 2

Bicycle Hoop - Standard Hoop

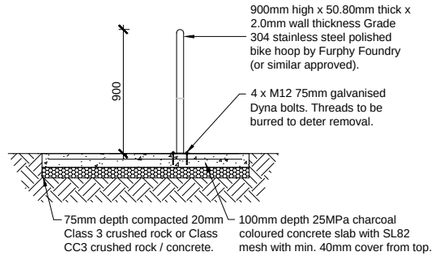
CONSTRUCTION DETAILS



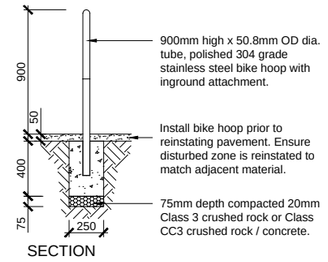
SECTION



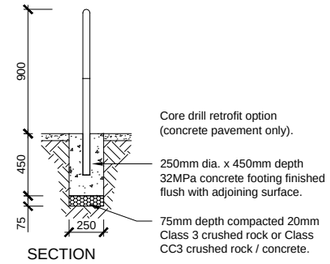
PLAN



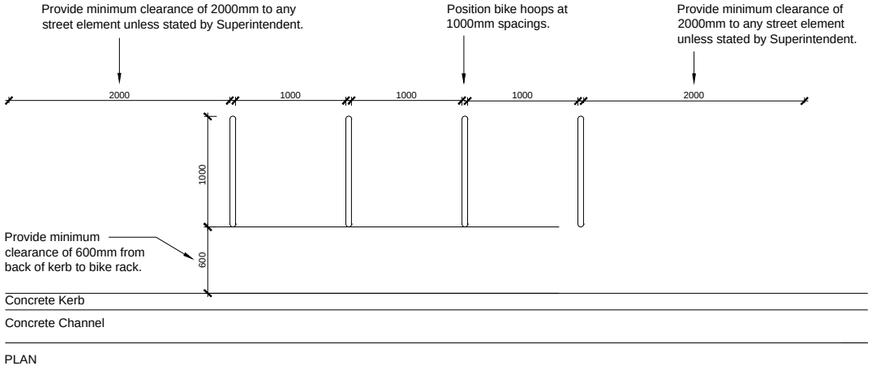
SECTION



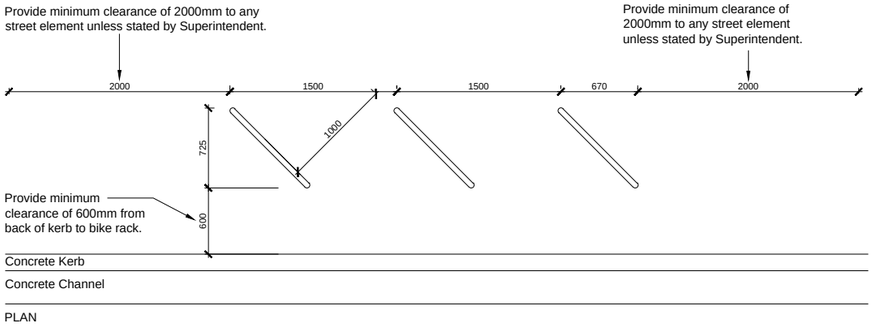
SECTION



SECTION



PLAN



PLAN

Notes:
1. Detail not to scale
2. Indicative only

Fencing - Cypress Pine Post and Steel Rail

DESIGN STATEMENT

The Cypress Pine and Steel Rail Fencing is a contemporary design which helps to clearly define the boundaries between different areas and uses within open space areas.

The post and railing are to be used across open space areas within the Municipality.

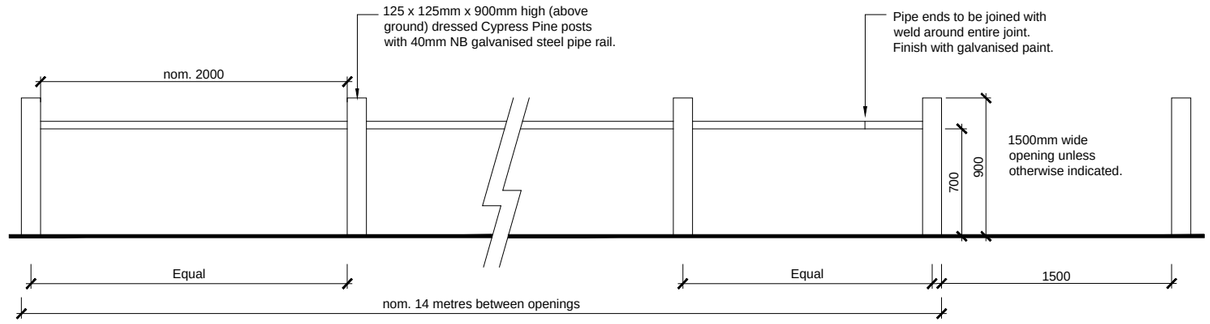
OS 501 applies to:

- Open Space

Element	• Fencing - Cypress Pine Post and Steel Rail
Materials	• Posts:125mm x 125mm x 1500mm dressed sawn Cypress Pine • Galvanised steel pipe rail 40mm N.B • 900mm from FL • Bituminous coating to base.
Finish	• Posts: Dressed Cypress Pine bollards with 25 degree splay on top. Allow to weather naturally. • Higher face to park side. • Bevelled edge to sides and top. • Rail: 40mm NB galvanised steel pipe. • Pipe rail joints to be welded together • Rails must be fixed to post ends to prevent removal.
Installation	• As per construction details on page 2.
Maintenance Tasks	• Hand clean as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Maribyrnong City Council or approved equivalent
Heritage Comments	• None
Optional	• Refer also to OS 505 Bicycle Barrier
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

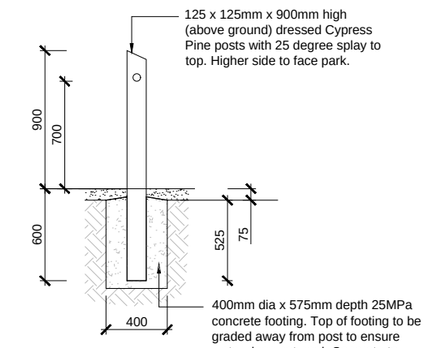
Fencing - Cypress Pine Post and Rail

CONSTRUCTION DETAILS

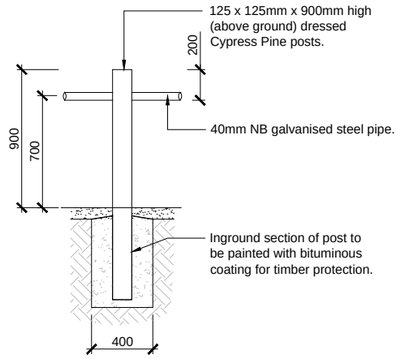


FRONT ELEVATION

NOTE:
Post spacings may be altered where necessary to avoid services or other obstructions ie. tree roots.



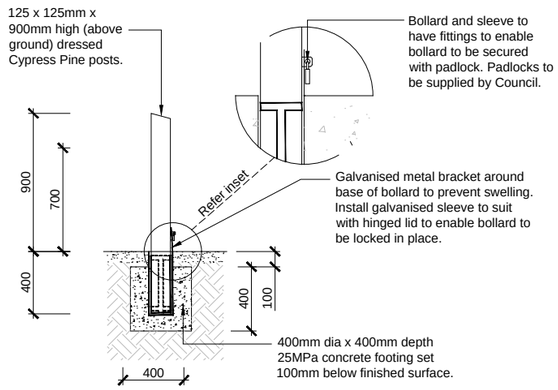
SIDE SECTION



FRONT SECTION

Notes:
End post should not typically have holes drilled completely through end. However, if necessary, pipe hole to be snug fitted with wooden plug and secured with adhesive or selected bolts or screws.

Set posts vertically and in straight lines.



REMOVABLE BOLLARD - SIDE SECTION

Notes:

1. Detail not to scale
2. Indicative only

Bollard - Large Timber

DESIGN STATEMENT
The Large Timber Bollard is a simple design which helps to clearly define the boundaries within open space areas.

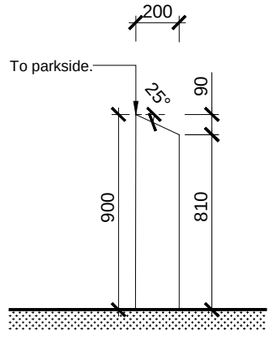
The bollards are to be used to create impact across open space areas within the Municipality.

OS 502 applies to:
- Open Space

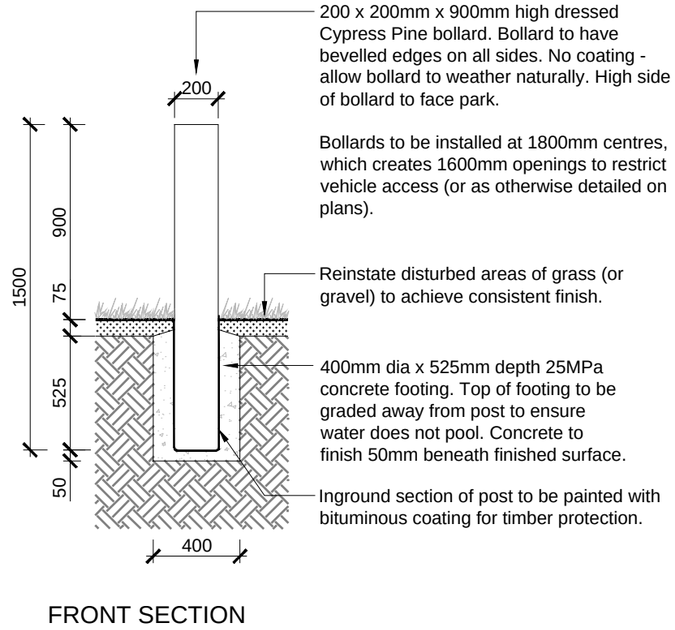
Element	• Large Timber Bollard.
Materials	• 200mm x 200mm x 900mm high Cypress Pine bollard.
Finish	• Dressed all round timber. • Bevelled edges to corners & top. • No coatings - allow to weather naturally. • Bituminous coating to base.
Installation	• As per construction detail on page 2.
Maintenance Tasks	• Hand clean as required. • Bollards to be replaced individually as required. • Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	• To create impact. • Vehicle management.
Supplier	• Maribyrnong City Council or approved equivalent
Heritage Comments	• Not for use in heritage parks or formal areas.
Optional	• None.
Comments	• Bollards to be installed at 1800mm centres (or as otherwise indicated on drawings). • Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Bollard - Large Timber

CONSTRUCTION DETAILS



SIDE ELEVATION



200 x 200mm x 900mm high dressed Cypress Pine bollard. Bollard to have bevelled edges on all sides. No coating - allow bollard to weather naturally. High side of bollard to face park.

Bollards to be installed at 1800mm centres, which creates 1600mm openings to restrict vehicle access (or as otherwise detailed on plans).

Reinstate disturbed areas of grass (or gravel) to achieve consistent finish.

400mm dia x 525mm depth 25MPa concrete footing. Top of footing to be graded away from post to ensure water does not pool. Concrete to finish 50mm beneath finished surface.

Inground section of post to be painted with bituminous coating for timber protection.

FRONT SECTION

Notes:
1. Detail not to scale
2. Indicative only

Bollard - Stainless Steel Pedestrian Zone

DESIGN STATEMENT

The stainless steel flat top bollard is suitable for use in open spaces in more urban or high profile locations. The minimal design is intended to complement the style of existing urban furniture elements such as the seats, bins and bike hoops.

The diameter of the bollards should be selected according to the place of application. 80mm ø bollard is preferred in pedestrian areas and 125mm ø in carpark and other high use vehicular locations. Use greater wall thickness in vehicle impact areas.

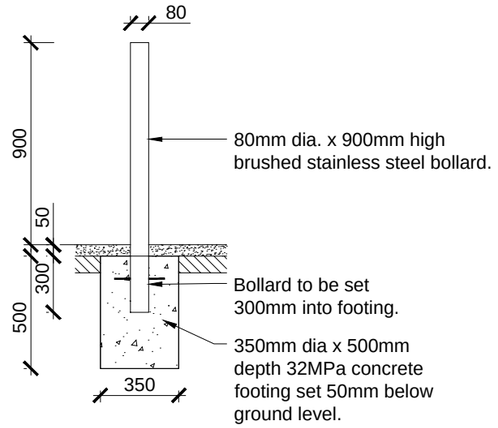
SF 501 applies to:

- Footscray CAA
- Local Activity Centres
- General Municipality
- Open Space

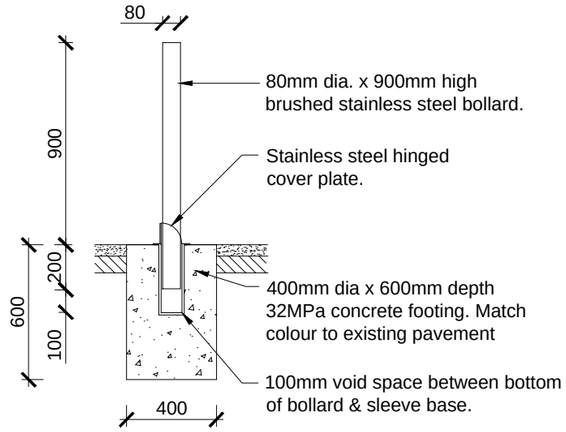
Element	Footscray Bollard
Materials	• 900mm x 80mm stainless steel posts with stainless steel fittings, flat bollard cap and base 3mm 316 grade stainless steel. • White Reflective tape Class 1 AS 1906.1 (optional)
Finish	• Stainless steel components to be electropolished, brushed finish.
Installation	• Inground installation or • Bolt down with flange base • Refer to construction detail on page 2.
Maintenance Tasks	• Clean and replace as required. • Remove graffiti with Guardian International non toxic product or similar.
Recommended Use	• General streetscape areas as required to control access • Protect electrical cabinets from vehicle • White Reflective tape Class 1 (AS 1906.1) for visibility in vehicular area only.
Supplier	• Leda Security Product TMRB or equivalent approved
Optional Extra	• White Reflective tape Class 1 AS 1906.1 (for visibility in vehicular accessible area only). • Lock and removable bollard
Comments	• Lock and removable bollard • Refer also to SF 502 for on-road option • Cross reference with site layout drawings. Install as per construction details

Bollard - Stainless Steel Pedestrian Zone

CONSTRUCTION DETAILS



INGROUND FIXING
SECTION



REMOVABLE BOLLARD
SECTION

Notes:

1. Detail not to scale
2. Indicative only

Fencing - Open Space Chain Mesh Fence

DESIGN STATEMENT

The Open Space Chain Mesh Fence is a contemporary design which helps to clearly define the boundaries between different areas and uses within open space areas.

The Open Space Chain Mesh Fence is to be used across open space areas within the Municipality.

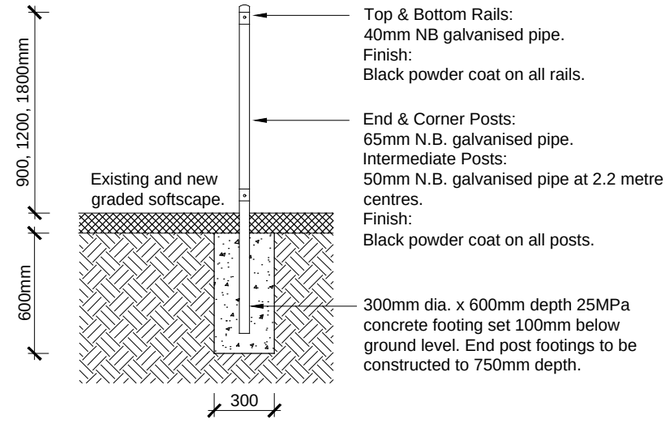
OS 503 applies to:

- Open Space

Element	Open Space Chain Mesh Fence
Materials	• Varying heights - 900mm, 1200mm or 1800mm • Black powdercoated galvanised steel posts & pipe rails as per detail. • Black PVC coated, 60mm wide pitch, 2.5mm galvanised core chain mesh fence • Post spacing nominally 2,200mm or as indicated on plan • 25MPa Concrete footing as per detail
Finish	• Black powdercoated galvanised steel pipe fence posts & rails • Black PVC coated chain mesh
Installation	• Refer to construction details on page 2
Maintenance Tasks	• None
Recommended Use	• General open space areas as required to control access • Protect electrical cabinets from vehicles
Supplier	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings. Install as per construction details

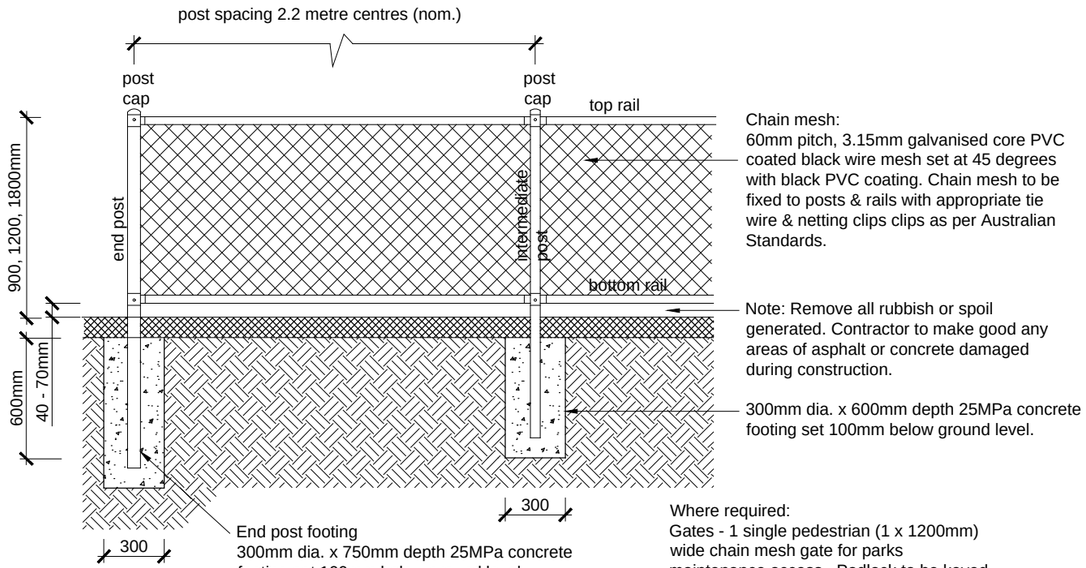
Fencing - Open Space Chain Mesh Fence

CONSTRUCTION DETAILS



Fence to be constructed to meet AS1725.5 – 2010 Chain link fabric fencing requirements.

SIDE SECTION



FRONT SECTION

Note:
Footing requirements will vary according to fence height & soil conditions.

Notes:

1. Detail not to scale
2. Indicative only

Fencing - Sports Perimeter Chain Mesh Fence

DESIGN STATEMENT

The Sports Perimeter Chain Mesh Fencing is a contemporary design which clearly defines the boundaries of sporting fields.

Fencing chain mesh is to be used at designated sporting fields within the Municipality.

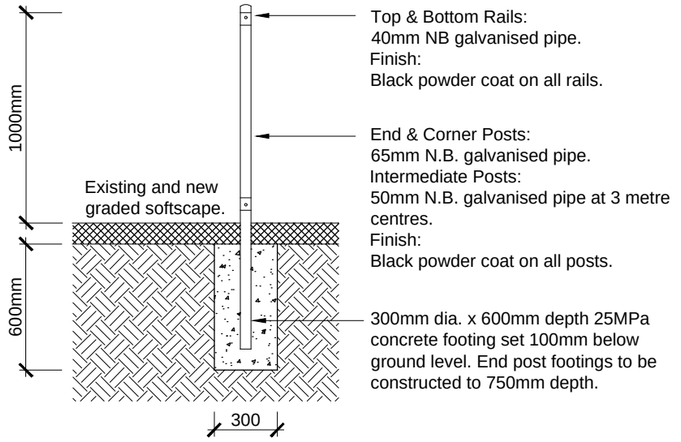
OS 504 applies to:

- Open Space

Element	Sports Perimeter Chain Mesh Fence
Materials	• 1000mm high black powdercoated galvanised steel posts and pipe rails as per detail. • Black PVC coated, 45mm wide pitch, 3.15mm galvanised core chain mesh fence • Post spacing nominally 3000mm or as indicated on plan • 25MPa Concrete footing as per detail
Finish	• Black powdercoated galvanised steel pipe fence posts & rails • Black PVC coated chain mesh
Installation	• Refer to construction details on page 2
Maintenance Tasks	• None
Recommended Use	• Perimeter fence for designated sports grounds.
Supplier	• None
Optional Extra	• None
Comments	• Cross reference with site layout drawings. Install as per construction details

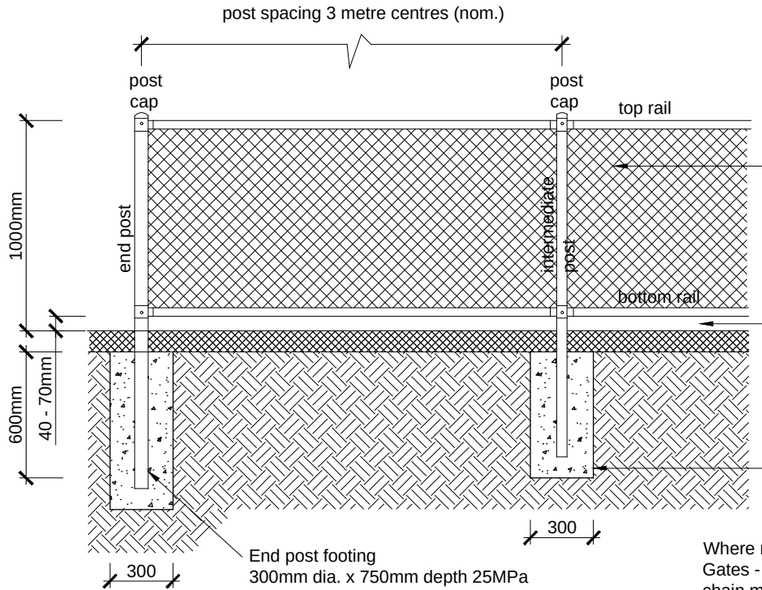
Fencing - Sports Perimeter Chain Mesh Fence

CONSTRUCTION DETAILS



Fence to be constructed to meet AS1725.5 – 2010 Chain link fabric fencing – Sports ground fencing – General requirements.

SIDE SECTION



FRONT SECTION

Note:
Footing requirements will vary according to soil conditions.

Notes:

1. Detail not to scale
2. Indicative only

Bicycle Barrier

DESIGN STATEMENT

The bicycle barrier is a contemporary design to be used along shared paths where required to protect path users from hazards such as a steep drop off close to the path edge.

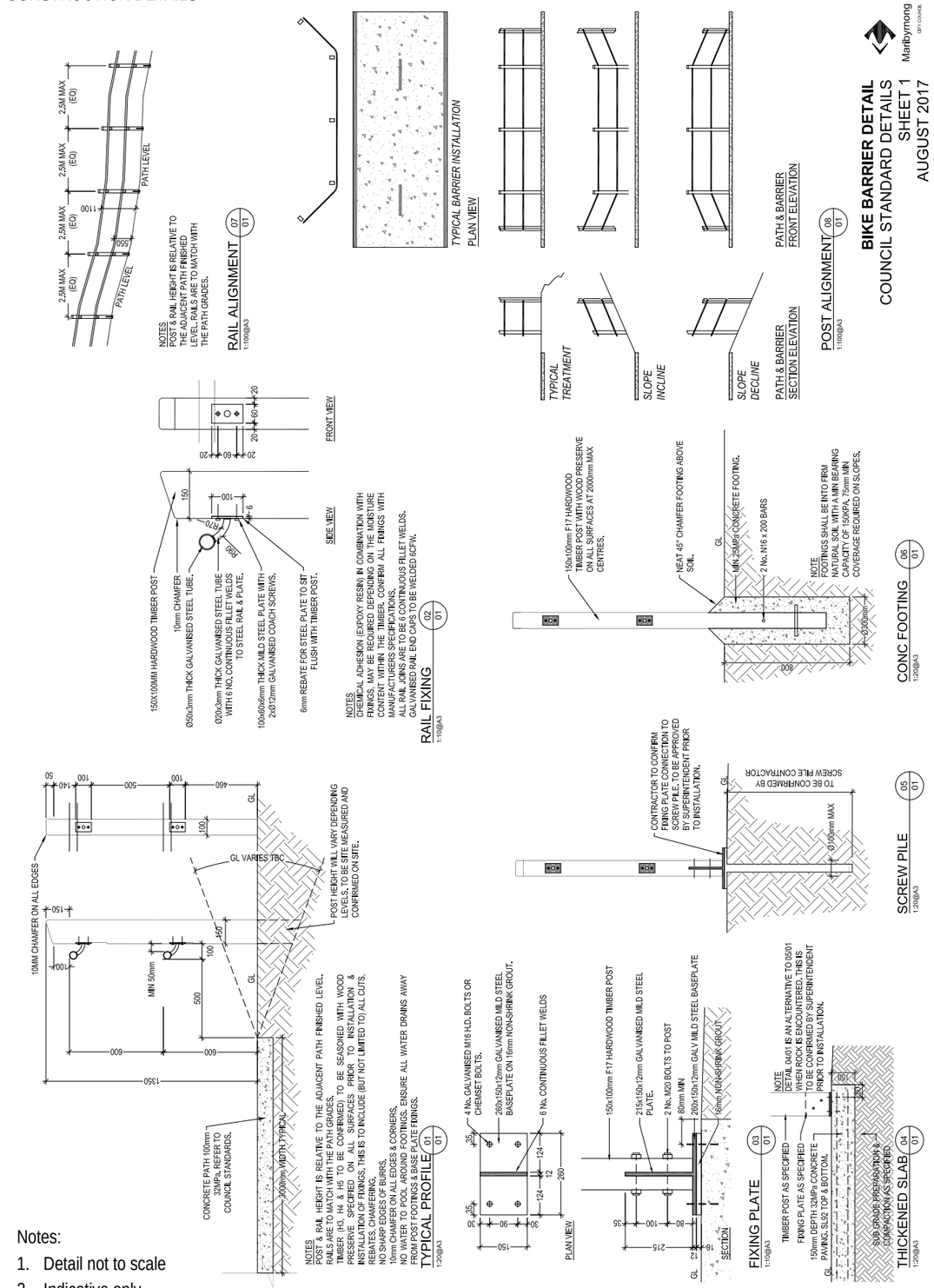
OS 502 applies to:

- Open Space

Element	•	Bicycle Barrier - Hardwood Timber Post and Railings
Materials	•	Posts:150mm x 100mm x hardwood timber Pipe rail: Galvanised steel pipe rail 40mm N.B rails nominally 550mm and 1100mm from path level
Finish	•	Posts: Hardwood timber with 25 degree splay on top. Higher face away from path Oil finish to posts. Rail: Galvanised steel pipe rail
Installation	•	As per construction details on page 2.
Maintenance Tasks	•	Hand clean as required. Graffiti removal by light sanding in combination with a non-toxic anti graffiti product Eg. Systems or Guardian International Citrus or similar as required.
Recommended Use	•	Recommended for use in open space areas where required along shared use paths within Maribyrnong City Council.
Supplier	•	Maribyrnong City Council or approved equivalent
Heritage Comments	•	Not for use in Heritage Parks.
Optional	•	None
Comments	•	Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Bicycle Barrier

CONSTRUCTION DETAILS



Notes:

1. Detail not to scale
2. Indicative only

Tree Planting

DESIGN STATEMENT

Trees are to be planted to create shade and cooling opportunities, and enhance natural landscape features.

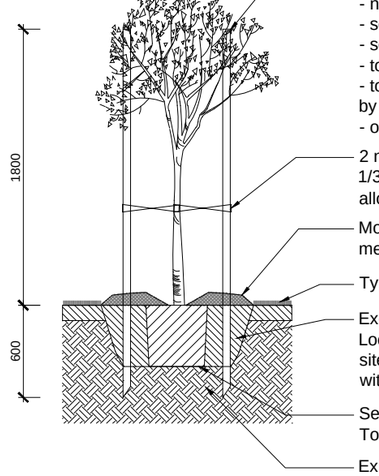
Planting of trees should be in accordance with construction details and additional notes.

OS 601 applies to:
- Footscray CAA
- Local Activity Centres
- General Municipality
- Open Space

Element	Semi - Advanced Tree & Palm Planting
Materials	• Selected tree or palm, as specified. • 50x50mm Hardwood Timber Stakes • Timber mulch, as specified. • 50mm wide hessian ties • Imported topsoil and soil ameliorants, as specified. • Optional - Water well: Greenwell Water Saver or similar approved.
Finish	
Installation	• Refer to Planting Details relating to different situations on page 2, 3 or 4.
Maintenance Tasks	• Regularly check timber stakes and hessian ties are straight and supporting upright growth of tree. • Soil and mulch to be re-applied as necessary.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Various
Heritage Comments	• None.
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council Arborist prior to commencing works.

Tree in Lawn Planting

PLANTING DETAILS



Refer to Planting Plan and Schedule for tree size, trunk caliper and species. All trees to be healthy specimens, free from pests and diseases. Trees to be well watered at least 24 hours prior to planting.

2 no. 50x50 x 2400mm hardwood stakes to be:
- no less than 300mm set into ground
- no less than 1800mm above ground
- set vertically
- set at consistent heights
- to be installed clear of rootball
- top 150mm of stake to be painted in colour specified by Council arborist.
- on exposed or windy sites, 3 stakes will be required.

2 no. 50mm wide hessian ties wrapped around trunk at 1/3 height of the tree and stapled / nailed to stakes to allow slight 360° motion.

Mound 75mm organic type mulch as specified to 1 metre dia. circle. Keep mulch clear of tree trunk.

Typical lawn.

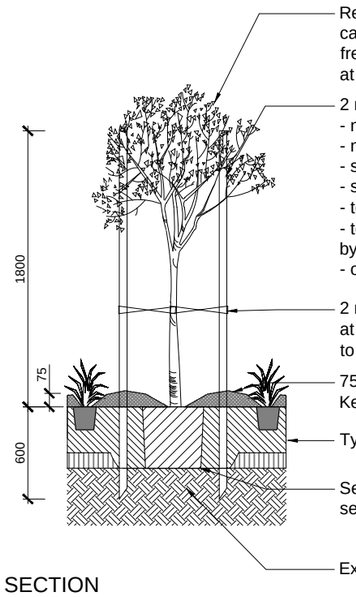
Excavate hole to 3 times width of pot diameter. Loosen/scarify sides of hole. backfill with mix of 50% site topsoil, broken up to friable texture and mixed with 50% imported topsoil.

Set rootball on undisturbed soil to prevent settling. Top of rootball to finish at ground level.

Existing subgrade.

Tree in Garden Bed Planting

PLANTING DETAILS



Refer to Planting Plan and Schedule for tree size, trunk caliper and species. All trees to be healthy specimens, free from pests and diseases. Trees to be well watered at least 24 hours prior to planting.

2 no. 50x50 x 2400mm hardwood stakes to be:
- no less than 300mm set into ground
- no less than 1800mm above ground
- set vertically
- set at consistent heights
- to be installed clear of rootball
- top 150mm of stake to be painted in colour specified by Council arborist.
- on exposed or windy sites, 3 stakes will be required.

2 no. 50mm wide hessian ties wrapped around trunk at 1/3 height of the tree and stapled / nailed to stakes to allow slight 360° motion.

75mm depth organic type mulch, as specified. Keep mulch clear of tree trunk and plant stems.

Typical garden bed.

Set rootball on undisturbed soil to prevent settling. Top of rootball to finish at ground level.

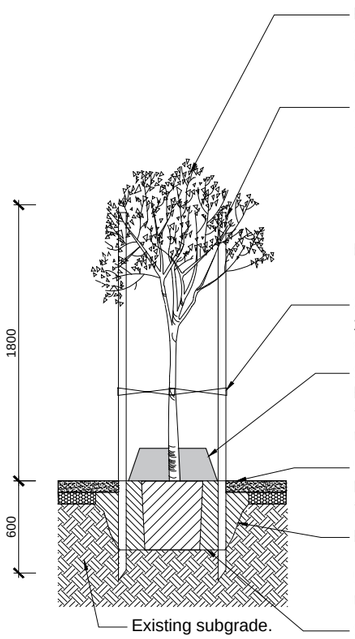
Existing subgrade.

SECTION

Notes:
1. Detail not to scale
2. Indicative only

Tree in Granitic Gravel

PLANTING DETAILS



Refer to Planting Plan and Schedule for tree size, trunk caliper and species. All trees to be healthy specimens, free from pests and diseases. Trees to be well watered at least 24 hours prior to planting.

2 no. 50x50 x 2400mm hardwood stakes to be:
- no less than 300mm set into ground
- no less than 1800mm above ground
- set vertically
- set at consistent heights
- to be installed clear of rootball
- top 150mm of stake to be painted in colour specified by Council arborist.
- on exposed or windy sites, 3 stakes will be required.

2 no. 50mm wide hessian ties wrapped around trunk at 1/3 height of the tree and stapled / nailed to stakes to allow slight 360° motion.

Supply and install standard Greenwell Water Saver - Heritage Green colour & 495mm dia at base. Install around tree to manufacturers specification with 50mm depth of recycled timber mulch. Keep mulch clear of tree trunk.

50mm depth granitic gravel to match adjoining surface. No cement stabilising or compaction to take place within the 1 metre dia. circle. Keep gravel clear of tree trunk.

Excavate hole to 3 times width of pot diameter. Loosen/scarify sides of hole. backfill with mix of 50% site topsoil, broken up to friable texture and mixed with 50% imported topsoil.

Set rootball on undisturbed soil to prevent settling. Top of rootball to finish at ground level.

Tree Planting Notes

TREE NOTES:

1. All trees must be healthy specimens free of pests, diseases & pathogens, scarring, damaged leaders, abrasions of the bark, disfigured knots or fresh cuts of limbs that have not been callused.

2. Advanced trees to show a vigorous central leader, open branching framework and well formed 'v' crotches. All limbs and trunks to be well formed, sturdy and well rooted. All dead wood & branches are to be removed.

3. Trees should be self supporting. Bamboo stakes are not to be used. Hardwood stakes and ties are to be used primarily for tree protection from strong winds and pedestrian traffic and accordingly ties are to be loosely fastened to allow for some movement.

4. Height, pot sizes and calliper sizes shall be as indicated on the drawings and shall be regarded as minimum dimensions, not maximum. Trees shall be planted as detailed on the drawings.

5. The contractor is to ensure that the trees are true to species and size specified on the drawings and in the schedule. The Superintendent is to be able (if requested) to inspect all trees prior to planting by the contractor , and may reject any tree and request alternatives be sourced.

6. Trees to be well watered a maximum of 24 hours prior to planting. Tree Reservoirs to be filled to the lip upon establishment and thereafter. Hydrocell flakes must be fully waterlogged prior to placement in tree hole, and never used dry.

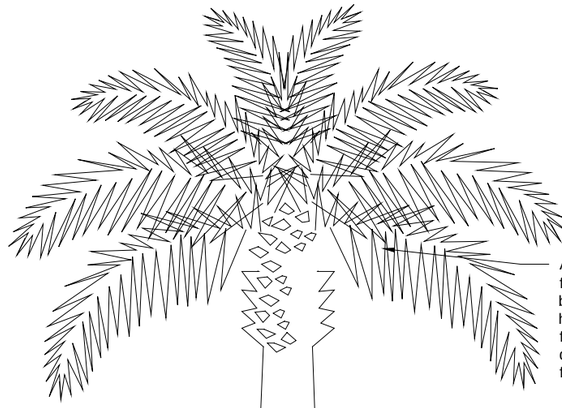
7. Trees are to be placed a minimum offset of 1 metre from adjacent structures, bollards, bins, path edges, concrete pads and similar, or as determined by Site Superintendant.

8. The Site Superintendent may inspect the tree holes prior to trees being planted - at his/her discretion

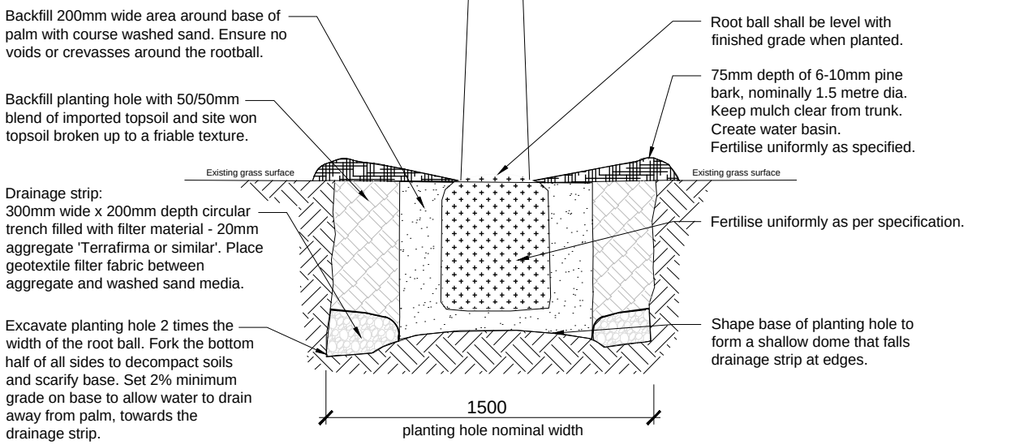
Notes:
1. Detail not to scale
2. Indicative only

Palm Planting

PLANTING DETAILS



All Palms to be healthy specimens, free of pests and diseases. Trees to be well watered, a maximum 24 hours prior to planting. Protect fronds from wind and mechanical damage. Trim only dead and broken fronds. Do not cut central leader.



Backfill 200mm wide area around base of palm with course washed sand. Ensure no voids or crevasses around the rootball.

Backfill planting hole with 50/50mm blend of imported topsoil and site won topsoil broken up to a friable texture.

Drainage strip:
300mm wide x 200mm depth circular trench filled with filter material - 20mm aggregate 'Terrafirma or similar'. Place geotextile filter fabric between aggregate and washed sand media.

Excavate planting hole 2 times the width of the root ball. Fork the bottom half of all sides to decompact soils and scarify base. Set 2% minimum grade on base to allow water to drain away from palm, towards the drainage strip.

Root ball shall be level with finished grade when planted.

75mm depth of 6-10mm pine bark, nominally 1.5 metre dia. Keep mulch clear from trunk. Create water basin. Fertilise uniformly as specified.

Fertilise uniformly as per specification.

Shape base of planting hole to form a shallow dome that falls drainage strip at edges.

Notes:
1. Detail not to scale
2. Indicative only

Tree Protection Zone

DESIGN STATEMENT

The Tree Protection Zone uses a galvanised steel frame fencing to protect the root and canopy of established and/or trees requiring protection, as identified in a tree protection plan. To be used within open space areas across the Municipality.

OS 602 applies to:

- Footscray CAA
- Local Activity Centres
- General Municipality
- Open Space

Photo example from Waverley Council, NSW

Element	Tree Protection Zone
Materials	• Cyclone Fencing (Galvanised Mesh) • Timber Mulch (if vehicle access within fenced area)
Finish	
Installation	• As per details on page 2. • In accordance with Australian Standard AS 4970-2009. • Cyclone fencing must not be within the canopy dripline zone. • Any compaction/excavation or tree surgery must be approved by superintendant prior to proceeding.
Maintenance Tasks and Frequency	• Weekly inspections
	• Check cyclone fencing is securely upright and not impacting on the root, branches and canopy of the tree.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Various
Heritage Comments	• None.
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council arborist prior to commencing works.

Tree Protection Zone

INSTALLATION DETAILS

Tree Protection will be required in accordance with AS4970-2009 'Protection of Trees on Development Sites'.

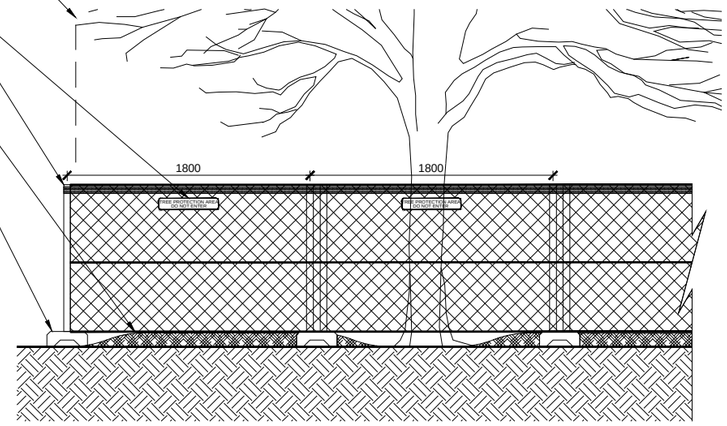
Tree Protection Fencing (TPF) to be erected in accordance with the required tree protection zone (TPZ) as defined in the Australian Standard AS4970-2009. prior to any works commencing on site. No equipment, materials, machinery or debris of any kind is to be stored (even temporarily) within the TPZ .

Tree protection warning sign

Fence to be nom. 1850mm high above adjacent ground level with galvanised steel chain mesh in accordance with AS4687 'Galvanised Construction Site Temporary Fencing'.

100mm depth of recycled organic mulch to AS4454 to specification within extent of the tree protection zone. Grade down to avoid direct contact with tree trunk

570 x 245 x 130mm temporary plastic feet, 32mpa concrete filled including 2 no. 6mm x 500mm reo.



TREE PROTECTION NOTES - AS4970-2009

TREE PROTECTION FENCING NOTES

1. Warning signs to be made of durable, weatherproof material.
2. Letters to be 75mm high minimum, clearly legible and spaced as detailed.
3. Signs to be placed at 15m maximum intervals.
4. Place a sign at each end of linear tree protection and 15m on centre thereafter.
5. For tree protection areas less than 7m in perimeter, provide no less than one sign per protection area.
6. Attach signs securely to fence posts and chainmesh.
7. Maintain tree protection fence throughout duration of project.
8. Refer to site specific Tree Management Plan and landscape specification for further tree protection fencing requirements.

TREE PROTECTION NOTES

1. Before commencing work on site, assess and identify on site with the Superintendent all trees and shrubs which are to be retained and protected and which may need partial cutting back or other work. If any tree pruning is required, this is to be coordinated on site with Maribyrnong City Council's Arborist and approved by the Superintendent prior to works occurring. All pruning is to be by qualified Arborist.
2. It is the responsibility of the contractor to take every necessary procedure to protect existing trees marked for retention, and their roots systems, throughout the course of the demolition and construction installation work. The Contractor shall immediately notify the Superintendent if there are any concerns relating to the protection of the trees or any foreseeable damage prior to or during the course of the work. Any damages made to trees marked for retention due to negligence shall be made good and paid for by the Contractor.
3. Any demolition/excavation required under existing trees within the Tree Protection Zone is to be supervised by Maribyrnong City Council's Arborist.
4. Where excavations are carried out in the vicinity of trees to be retained, use sensitive excavation techniques, i.e. hand or hydro excavation, to locate any roots.
5. All existing pavements, edges and other hardstand within the Root Protection Zone of existing trees to be retained are to be carefully removed. The work is to be undertaken by hand with the assistance of light machinery (e.g. bobcat) working from outside the area. Significant roots (roots >40mm in diameter) are not to be damaged or severed. Broad scale site scraping is not permitted under any circumstance within Root Protection Zone.
6. Do not rest spoils on exposed tree roots.
7. Do not place building materials, machineries or debris on or near exposed tree roots or tree trunks.
8. Where pavements have been removed a covering layer of light organic sandy loam soil is to be placed to ensure that any exposed roots are covered.
9. The existing levels within the Root Protection Zone are otherwise not to be disturbed in any way as excavating or filling may have a detrimental impact upon the health of trees.

Notes:

1. Detail not to scale
2. Indicative only

Lawn and Shrub Planting

DESIGN STATEMENT

Lawn and Shrub Planting are integral to providing high quality and usable open spaces areas. Selecting appropriate lawn and shrub treatment and correct installation can significantly effect the long term maintenance of parks and reserves.

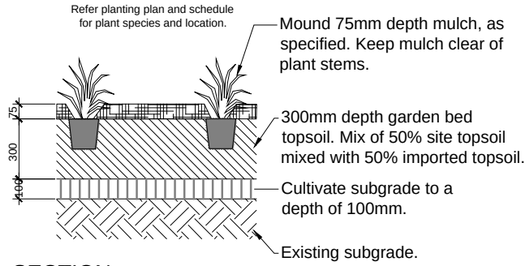
OS 603 applies to:

- Open Space

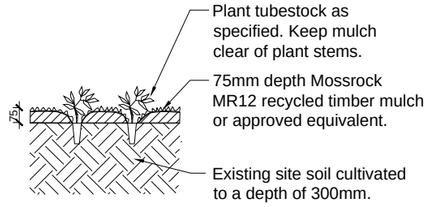
Element	Lawn and Shrub Planting
Materials	• Lawn: 50mm imported topsoil • Lawn: Selected lawn seed or turf • Shrub: 200mm or140mm pot or tubestock, as specified, • Mulch: 75mm Mossrock MR12 recycled timber mulch or equivalent • Orange safety mesh fence for site protection during establishment,
Finish	
Installation	• As per planting details on page 2.
Maintenance Tasks	• Regularly check for litter. • Ensure healthy growth of shrubs and checking for disease • General parks and gardens maintenance.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Installed insitu by approved MCC supplier or approved equivalent
Heritage Comments	• None.
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Lawn and Shrub Planting

PLANTING DETAILS



SECTION



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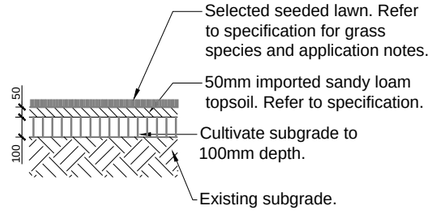
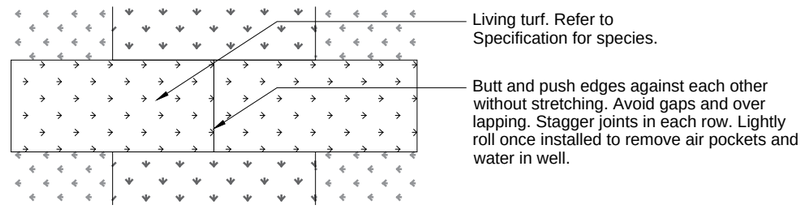


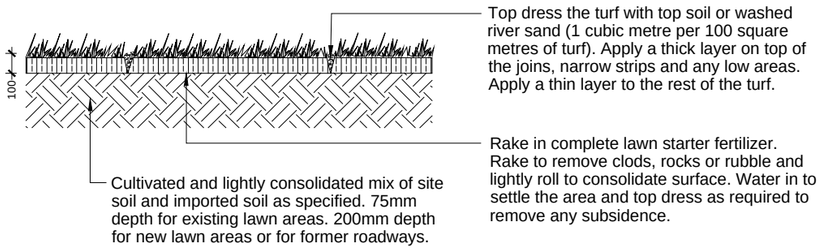
SECTION

NOTES:

1. Fill with site salvaged soils and grade lawn area to levels indicated. Refer to relevant grading plan.
2. Remove all weeds and undesirable plants as specified two weeks prior to planting.
3. Remove any surface rubble or rock with diameter > 25mm.
4. Top dress - 50mm depth imported topsoil as specified. Topsoil sample to be provided.



PLAN



SECTION

Notes:

1. Detail not to scale
2. Indicative only

Park Shelter

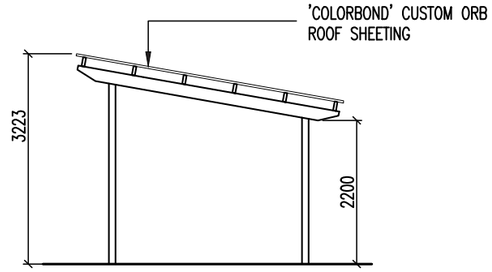
DESIGN STATEMENT
Lawn and Shrub Planting are integral to providing high quality and usable open spaces areas. Selecting appropriate lawn and shrub treatment and correct installation can significantly effect the long term maintenance of parks and reserves.

OS 801 applies to:
- Open Space

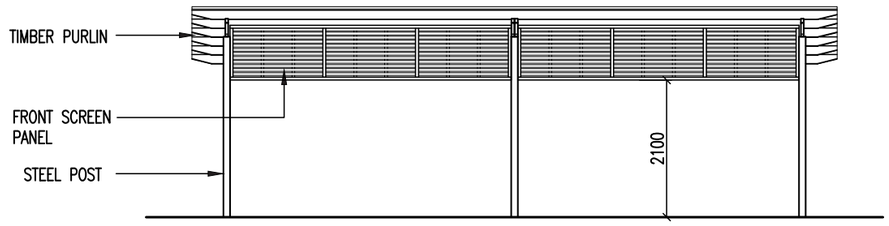
Element	Park Shelter
Materials	• 10 metres length x 4 metres wide (in small parks, consider 4 x 4 metres) • Roof: Colorbond custom orb roof sheeting - XRW grade - 'Pale Eucalypt' colour with stained, LOSP treated pine timber roof structure. • Posts: Hot dipped galvanised steel inground posts (optional upgrade to stained treated pine cladding) • Front Screen: Stained, LOSP treated pine timber rebated front screen panel • Fastening system - stainless steel & anti vandal.
Finish	• As above.
Installation	• Refer to Landscape Plans for footing details and associated pavement and furniture. • As per construction details on page 2. • Engineering certification and building application drawings to be provided.
Maintenance Tasks	• Clean as necessary • Graffiti removal using non-toxic product such as Guardian International Citrus product (or similar approved) as required.
Recommended Use	• Recommended for use in open space areas within Maribyrnong City Council.
Supplier	• Landmark Ph: 1300 768 230 Product: Peninsula K304 Shelter or similar approved.
Heritage Comments	• In heritage parks, consider timber clad posts.
Comments	• Cross reference with site layout drawings. All queries should be clarified with Council prior to commencing works.

Park Shelter

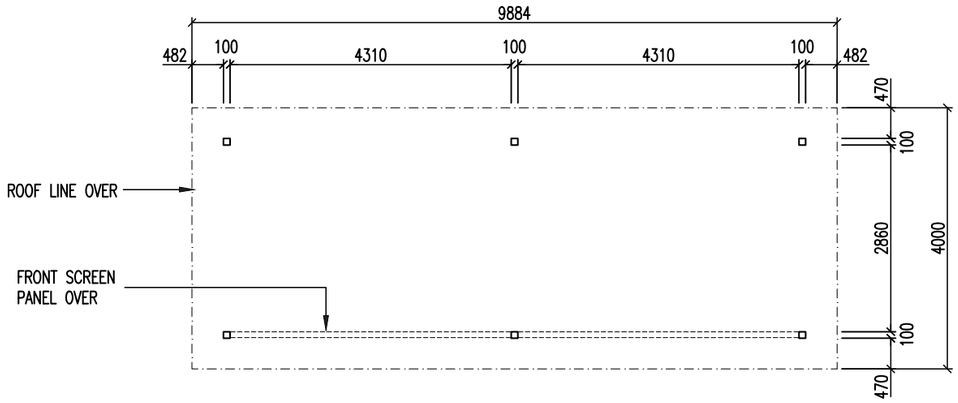
CONSTRUCTION DETAILS



SIDE ELEVATION
(1:75)



FRONT ELEVATION
(1:75)



PLAN
(1:75)

Notes:
1. Detail not to scale
2. Indicative only

Park Light

DESIGN STATEMENT
This light is suitable for high volume pedestrian pathways and linkages. It features an efficient contemporary light fitting on a durable yet elegant steel pole. This light is designed to compliment Council's furniture suite.

The light is designed with a high mounting to minimise vandalism risk and is fitted with an energy saving LED lamp.

OS 901 only applies to the Open Space.

Element	Park Light
Materials	• Luminaire – XARD2 Cree Edge Round Area Luminaire (XARF304E-4H7T) Type II Medium (or similar approved) • Mount - Spider Mount, Centre Direct • Pole – 5” Round Pole
Finish	• Black
Installation	• Installation of all electrical items shall be performed by a licensed electrician. • All lighting must be supplied with an electrician’s Certificate of Electrical Safety upon completion of installation. • Footing design to engineer’s detail. • Refer to construction details on page 2.
Maintenance Tasks	• Council - Luminaire maintenance and lamp replacement • Council - Pole maintenance and replacement
Recommended Use	• High volume pedestrian pathways in open spaces.
Supplier	• Luminaire - various suppliers including Rexel, Sylvania, Pierlite, Streetworx • Pole King St - VicPole (03) 8761 2703, or approved equivalent
Optional Extra	• None
Comments	Documentation: • Cross reference with site layout drawings. Install as per construction details. All questions should be clarified with Council prior to commencing works. • Refer to VicPole Street Lighting Pole details.

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Reference 1

Refer: Maribyrnong City Council
Standard Drawings 2015 - 2016

Reference 2

Refer: City of Maribyrnong

Interpretive Style Guidelines

Reference 3

Refer: Maribyrnong City Council Signage Strategy