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Principle

Section 3.4 Signage

Revision: Draft
3.4 Signage

Introduction

This Section of the Parklands Elements and Details Manual describes the signage system to be implemented throughout all of the Sydney Olympic Parklands sites. The aim of the signage system is to direct, inform and regulate all user groups and to promote the identity of Sydney Olympic Park by establishing a consistent image throughout the site.

This section of the Manual is designed to be used by Sydney Olympic Park Authority personnel to specify signs for the Parklands as they are needed.

It includes the following:
• an overview of the sign types
• specifications for the construction of the sign structures and the application of the graphics onto those structures
• examples of a sign schedule and a sign location plan to be used when planning signs for a particular site.
3.4.1 Sign types

- **ID1** Vehicle arrival
- **ID2** Pedestrian arrival
- **ID3** Pedestrian map
- **ID4** Place marker
- **ID5** Building identification
- **ID6** Moveable blade
Section 3.4 Signage

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3.4.2 Sign Specifications

1.0 SCOPE OF WORK
The subcontractor is to supply and install all signs as shown in the following documents:
• Sign Type Drawings
• Sign Location Plans
• Sign Schedule
This specification is to be read in conjunction with these documents.
The subcontractor shall verify and be responsible for all dimensions and conditions on the job prior
to manufacture, including structural, engineering and footing details and the strength and suitability
of materials specified for each sign. The subcontractor shall notify the principal of any variations
from the dimensions and conditions shown by these and any subsequent drawings. If changes are
requested they should be submitted as drawings for approval prior to production.

1.1 Related Work
• includes repainting or refurbishing existing panelling, ground surfaces, wall surfaces or electrical
  fittings where damaged by the subcontractor during the construction or installation of a sign.
• includes the construction of supports, frames, brackets or mouldings all associated work to support,
  build and install the signs in given locations.

1.2 Format of Pricing
Prices are to be provided for supply & installation as a lump sum total and itemised per sign type to
allow for additions and deletions if required.
Submitting a Quote indicates the acceptance to produce the signs to the Quality Standards as in
accordance with the PEDM.

1.3 Production Program
The Subcontractor must submit with their price a written program detailing the time frame required
for manufacture and installation.

1.4 Standards
All work and materials shall comply with the Building Code of Australia, the Workplace Health and
Safety Act, and, except where otherwise noted in this Specification, comply with the latest editions of
all relevant Australian codes or standards (current issue) of which the following is a selected list:

Quality Management
AS/NZS ISO 9001 Quality systems for design/development, production, installation and servicing
AS1170.0 Structural Design Actions - General Principles
AS 1170.2-2002 Minimum design loads on structures – wind loads Metalwork
AS4100 Steel Structures Code
AS 3678 Structural steel – hot-rolled plates, floor-plates and slabs
AS 1397 Steel sheet and strip – hot-dipped zinc-coated or aluminium/zinc-coated
AS 1444 Wrought alloy steels – standard and harden ability (H) series
2.0 MATERIALS

Generally: Unless otherwise specified, comply with the following where applicable.

Alloy/temper to AS1865 (Aluminium) (not for photo anodising)
Anodising to AS1231, coating thickness not less than 25 microns.

Properties: Allow for expansion/contraction of materials.
Electrolysis: Provide insulation between dissimilar metals to prevent electrolysis.
Materials shall be generally as follows:
In conformity with the current applicable Australian Standard Code. All materials shall be new, the best of their respective kind and suitable for their purposes. Materials are to be free from corrosion, prime painted and compatible with the final finish, where applicable. Provide all screws, bolts, rivets, pop rivets, plain and countersunk fastenings and washers of a type and material suitable, sufficient and matching in finish and appearance to the components fastened.

2.1 Concrete
Concrete for footings shall be of structural quality and free of defect and constructed to Australian Standard Codes for Concrete Reinforcement and Form work. Neat & uniform surrounds where visible.

2.2 Aluminium
Aluminium sheet & extruded sections where specified to be used. Single full sheets are to be used for each sign face, there are to be no joints in sheet unless otherwise shown on drawings.

2.3 Mild Steel
All mild steel work to be hot dipped galvanised. Single full sheets are to be used for each sign face, there are to be no joints in sheet unless otherwise shown on drawings.

2.4 Paint
Paint to be 2 pack Polyurethane and applied as per manufacturers instructions. Primers and undercoats to be applied prior to the final coatings. The final coat to be satin finish (20 to 50 degree gloss level). Dupont ‘Tedlar’ SP polyvinyl fluoride film laminated over the graphics.

2.5 Adhesives
Adhesives must be suitable for their application and applied as per manufacturers instructions. Double sided adhesive tape is to be 3M brand 4016 or equal. Silicon adhesive is to be acid free Dow Corning 7932 or equal.

2.6 Photo Anodising
All photo anodised panels are to conform to the following requirements,
• 25 microns minimum
• Full colour image
• UV resistant inks
• Minimum 300dpi resolution
• Images to have a minimum 5 year outdoor life

2.7 Protective Anti-Graffiti
All painted faces shall have a final clear coat applied over the face to protect from graffiti. The clear coat shall be consistent with the paint finish and applied as per manufacturers instructions. The final coating over paint to be Reliance Anti-Graffiti Shield (sacrificial wax polymer) from The Graffiti Specialists (or equal).
2.8 Fixings
All fixings are to be stainless steel grade 316 with anti-theft heads as shown on drawings. Tek-screw type fixings are not permitted where visible.

2.9 Material Finishes
All materials subject to corrosion shall be suitably primed or otherwise treated with permanent protection. Undercoats shall be evenly applied to concealed frames and supports prior to assembly. Non corrosive materials are to be preferred in all cases.

3.0 CONSTRUCTION
Generally - Form graphics items accurately to the specified shapes and surfaces with clean, well defined edges or arises, free from blemishes. The subcontractor shall be responsible for the quality of all materials and workmanship required to manufacture the signs including the materials and workmanship of any firms or individuals who act on behalf of the subcontractor and/or suppliers.

3.1 Construction Standards
Construction is to be of the highest of industry standards. Where connection or suspensions are made, plates, bolts, angles and screws are to be concealed as much as possible from view unless otherwise detailed. Box frames or tube shall be extruded and prefinished. Spaces, drilled holes and fixings shall be consistent from one sign to another. Screws, adhesives and silicones shall be concealed and or made flush with the surface. Fit components with care. Graphic standards are to be carefully adhered to.

3.2 Structural Support
Structural support of signs shall be independent of the existing structure except where specifically fixed to walls, floors or ceilings. For all signs, the subcontractor is to be responsible for strength and suitability of the structural support and connection of all signs. Where visible plinths are shown on the sign drawings, match details as shown. Internal structure may be amended to suit relevant structural requirements.

3.3 Shop Drawings
Requirement
The subcontractor shall submit shops drawings of all sign types for review prior to manufacture.
Inclusions
Drawings shall include the following details and information where applicable:
1. Large scale (full size if practical) lettering layouts/spacing templates. 1:5 minimum.
2. Sections and Details of proposed fabrication.
3. Anchorages and Fixings, locations and types.
4. Engineer’s Certification on all structural work. Design wind loading appropriate for the site.
5. Type faces, Colours and Finishes.
All proposed changes to the construction of the signs must be submitted and approved by SOPA prior to construction commencing.
3.4 Graphics
Sign messages are to be created from electronic artwork to faithfully reproduce the shapes and typefaces specified. The graphic layouts shall follow the guidelines outlined in the Sign Type Drawings.
Where noted in the tender drawings, SOPA will provide only the graphics shown on the Sign Type Drawings as PDF.
It is the responsibility of the sign maker to ensure that all electronic files are accurately converted and match the Sign Type Drawings provided in form, size & colour. Hard copy drawings provided are to be used as the primary reference.
If the subcontractor finds any text messages or graphics in the Sign Type Drawings that do not fit the guidelines, the subcontractor shall prepare a layout of the message at a minimum 1:10 scale and submit the layout for approval prior to production.

3.5 Painting
All signs shall be factory painted using sprayed finishes or other approved finishes. Surfaces to be satin finish (20 to 50 degree gloss level), with full and even cover. Where screws bolts or both are applied to prefinished material, retouch to match.

3.6 Vinyl Graphics
Cut from self adhesive vinyl by computer operated flat bed knife cutter or other accurate technique.

3.7 Screen Printing
Where noted on the drawings, graphics are to be accurately screen printed using silk screens and two pack paints.

3.8 Clear Protection Coating over Painted Sign Faces
All painted faces shall have a final clear coat applied over the face to protect from graffiti. The clear coat shall be consistent with the paint finish and applied as per manufacturers instructions. The final coating over paint to be Reliance Anti-Graffiti Shield (sacrificial wax polymer) from The Graffiti Specialists (or equal).

3.9 Cut out Shapes
Cut out shapes must be accurately pantographed or laser cut from solid material and hand finished as necessary.

3.10 Welding
All welding and welding equipment shall satisfy the requirement of the appropriate standards for the specified material and conform to SAA code. All visible welds to be neat, ground back and polished.

3.11 Warranty
The signs shall not show deterioration, fading, crazing, peeling or bond failure for a period not less than (5) years from the date of completion.
4.0 ILLUMINATION
Generally: Achieve optimum illumination on all illuminated signs.

4.1 Flood Lighting
Flood lights to have external aluminium housing and toughened glass lens with tungsten halogen lamp and installed with all required electrical components to match relevant Australian Standards. SOPA to advise further.

5.0 GRAPHIC STANDARDS
The following rules of graphic quality apply:
1. All lettering shall be true to its letter form in face weight and construction.
2. All graphics are to be electronically, photographically or mechanically reproduced.
3. All colours are as specified in Pantone colour reference system or other specified colour.

5.1 Typeface
The font family shown on the sign type drawings is to be used for all messages, text and numerals except where specifically stated otherwise. No other versions of typefaces will be accepted. It is the responsibility of the sign maker to purchase the font as specified.

5.2 Pictograms and Arrows
Only the symbols as shown on the sign type drawings are to be used. No other versions will be accepted.

5.3 Colours
Colours for all parts and faces are as noted on the drawings. All colours to be approved via the sampling process as noted in section 6.

6.0 SAMPLES & PROTOTYPES
Samples must be submitted to SOPA or the Managing Contractor for approval prior to the production of any signs. The subcontractor shall submit samples of the following:
• minimum 400 x 400mm panel of each spray painted colour and finish
• multiple samples of digital prints showing various sections of the graphics including areas of full single colour, multiple colour areas, text, pictograms and gradients.
• samples of welded joins (prior to galvanising)
• samples of galvanised panels and Universal Columns (easily transportable size please).
7.0 INSTALLATION STANDARDS

Site Conditions
Site inspections are to be carried out prior to installation to verify locations, confirm all architectural details, mounting conditions and dimensions (refer to Section 1.0 Scope of Work).

General
All installations to be plumb and level, at the heights indicated, securely mounted with theft-resistant fixings. Locate all signs in the correct position and orientation as indicated on Sign Location Plans.

Work shall be complete with all bolts, rivets and other fittings to adequately transmit the loads and stresses imposed. Where bolting of metal work to concrete is specified, fixings to be of approved masonry anchors of the required size. Proper edge clearances should be observed so there is no risk of possible damage to concrete or structural framing. Packing of fixings is permitted to approved tolerances to level and square installations.

7.1 Inspections
Subcontractor’s engineer to site inspect and certify all footings prior to pouring of concrete & issue a certificate of inspection.

The signs are to be inspected and approved by SOPA in the factory prior to installation.

7.2 Electrical Installation - Flood-Light Sign
The entire installation shall be carried out in accordance with AS3000 & AS3100. The subcontractor shall supply and install all electrical fittings associated with the signs.

The Subcontractor shall connect each flood light to power supply provided to within two metres of the sign’s flood lights locations.

All necessary signs concerning danger to the public must be provided. Control gear and transformers shall be installed in approved locations that are accessible for maintenance, and out of view wherever possible. Suitable enclosures with adequate ventilation shall be provided.

All flood lights to be hard wired. Wiring shall have voltage and temperature rating to suit the application. All wiring shall be concealed to approval, enclosed in conduit in approved locations only. All wiring shall be able to be removed and replaced if necessary. Provide cable access notes as necessary to achieve this. Where necessary to prevent the ingress of water, seal cable entries in an approved manner.
8.0 MAINTENANCE MANUAL

The Subcontractor is to provide three copies of a maintenance manual containing a description of the supplied items, instructions on how to correctly replace panels or parts as required and details on cleaning and maintenance of the signs.

The Subcontractor is to provide a comprehensive maintenance manual. 2 copies of this manual is to be provided hardbound and an electronic version (PDF format) to be provided on CD Rom. This manual is to contain all information for every aspect of the project and shall include, but not limited to:

• All working and as-built drawings for all aspects of the works, ie footing details, artwork, individual sign design, bolt cage assemblies, glazing and other details, thus enabling any component to be easily remanufactured if and when required;
• Comprehensive parts list;
• Subcontractors and suppliers contact list detailing all works performed and materials supplied, for example installation and footing contractor, metal, glass, paint, adhesive, sealant, vinyl, glazing and fixing suppliers;
• All associated certification documents;
• Sign installation and removal details;
• Artwork and glass panel replacement instructions;
• All digital photos of the project;
• Replacement procedures for each individual section or replaceable panel of the signage system;
• Cleaning and maintenance instructions;
• Graffiti removal instructions;
• Spare parts list to enable a quick reordering of components including supply time frames.
3.4.3 Graphic reference

Typeface
The Sans Plain

ABC
KLMNOPQ
STUVWXYZ
abcdefghi
jklmnopqr
stuvwxyz
1234567890

Directional Arrows
← ↔ → ↑ ↘
Pictograms

The code (PW) is used in the sign schedule to identify which pictogram are to be used or which sign.
**Principle**

**DESIGN INTENT ONLY**

**Section 3.4 Signage**

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<td>Dulux Western Myall PG1•F7</td>
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**SOPA Logo zones**

For alignment on sign panels

Sydney Olympic Park

Sydney Olympic Park
3.4.4 Construction notes

General Construction Notes

GENERAL
Hot dip galvanise all steel.

DESIGN LOADING
Region A
Basic wind velocity = 41 m/s
Terrain Category = 3
Ms = 0.95
Mi = 1.0
Mt = 1.1
Horizontal Load 1.5 kN applied at 1000 above G.L.

The subcontractor is responsible for the structural adequacy of the signs and their footings.

WELDS and BOLTS
Fully weld all connections with 6mm continuous fillet welds unless noted otherwise. All welds to be grade SP unless noted otherwise.

CONCRETE
Strength grade = N32
Aggregate size = 20mm
Slump = 60mm
75 cover to bolts or reinforcement. Vibrate concrete.
Lap mesh 2 cross wires + 25mm minimum.

FOUNDATION MATERIAL
Footing designed to found in natural material having an allowable bearing capacity of 100kPa. Install mass concrete under footings down to an adequate material as required.

Fixing to slab - ID3 only:

Min slab thickness = 100mm.
Minimum extent of sound slab free of joints and cracks = 1500 x 1500mm.
Concrete strength assumed = 32 MPa.
Minimum distance from anchor to slab edge/joint = 300mm.
Fix to slab via M12 dynasets (50mm embedment)

It is the subcontractor’s responsibility to determine the bearing capacity of the foundation material.
3.4.5h Identification sign: DR1 - Directional Finger Sign

Messages and pictograms shown are indicative only.

Elevations
Scale 1:20

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**Elevations**

Scale 1:20

---

### Principle

Gráfico detalhado: sinal direccional

### Section 3.4 Signage

Nome do caminho: sinal "Naming Slat"

Base do "Pathway" (pode aumentar se forem necessários 4 dedos direcionais)

**Sign Type DR**

**Sheet 4**

---

**For Construction**

Referenciar a folha 4 para detalhes de construção.

**Date**

12.02.07

---

**Issue**

1

---

**Status**

7 - Único

---

**For Construction**

Referenciar a folha 2 para layout gráfico.

**Referenciar a folha 1 para detalhes gerais de construção.**

---

**Concrete pad footing minimum 800 x 600**

**M12 galvanised steel caged footing**

**Lindas pelo fio de galvanização.**

**Pre-drill and tap holes**

**1. Steel universal column (100 UC 14.8)**

**2.**

**3.**

**4.**

**5.**

**6.**

**7.**

**NB. All structural members, fixings and representations of the final product.**

---

**Attention on site prior to manufacture.**

**Confirm all dimensions and details in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.**

**Design Intent Only**

DR1
Elevation - Pathway Naming Slat
Scale 1:20

**Principle**

Graphical details: directional finger sign

**Section 3.4 Signage**

Revision: Draft
Graphic Details

**FONT**
The Sans Plain

**SIZE**
Text (Destination and Pathway names) = 35mm cap X height
Text (Distances) = 25mm cap X height
Pictograms = 100 x 100mm

**COLOUR**
Panel Background = To match Dulux Western Myall
Panel Background (Pathway name only) = Pantone 116C
Text = White
Text (Pathway name only) = To match Dulux Western Myall
Pictograms = Black and White
Parking and Access pictograms = White and Pantone 653

---

**Graphic Layouts**
Scale 1:10

---

**Principle**
Graphic details: directional finger sign

**Section 3.4 Signage**

**Revision:** Draft
Graphic Details

**FONT**
The Sans Plain

**SIZE**
Text (Destination and Pathway names) = 35mm cap X height
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Pictograms = 100 x 100mm

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Panel Background (Pathway name only) = Pantone 116C
Text = White
Text (Pathway name only) = To match Dulux Western Myall
Pictograms = Black and White
Parking and Access pictograms = White and Pantone 653

**Graphic Details**

**SIDE 2 - Destination Slat**
Maximum 6 pictograms per slat

**SIDE 2 - Pictogram Slat**

**SIDE 2 - Pathway Name Slat**
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Steel universal column (100 UC 14.8), hot dip galvanised. Pre drill and tap holes for screws (Item 4) prior to galvanising (Refer to Detail 2 for hole set out).

2. 6mm thick aluminium sign panel.

3. 30 x 30 x 3mm steel angle.


5. 250 x 250 x 12mm steel base plate, FSB welded to universal column.

6. M12 galvanised steel caged footing bolts, minimum 400mm long, with galvanised steel leveling nuts.

7. Concrete pad footing minimum 800 x 800 x 450mm with concealed base plate. Min 600 deep. F82 mesh top and bottom.
Construction Details

Elevations

Messages and pictograms shown are indicative only.

TOP VIEW

FRONT VIEW

SIDE VIEW

Detail 1
(Refer to Sheet 4)

Detail 2
(Refer to Sheet 4)

TOP VIEW

SIDE VIEW

Principle

Construction details: directional finger sign

Section 3.4 Signage

Revision: Draft
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Detail 1
Scale 1:5

Holes drilled and tapped prior to galvanising

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**Construction Details**

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

---

**Base Plate Detail**

Scale 1:5

---

**Detail 2**

Scale 1:2
**Construction Details**

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Sign frame, steel parallel flange channel (150 PFC) with mitre joins in corners.
3.4.5i Identification sign: DR2 - Pedestrian Directional Sign

Graphic Details

COLOUR
Background = To match Dulux Western Myall
Arrows = White
Pictograms = Black and white
Parking and Access pictograms = White and Pantone 653
SOPA Logo = PMS 116 and white

SIZE
Pictograms = 138 x 138mm
Scale 1:10

One direction only

Front View
3 pictograms

Graphic Layouts

Scale 1:10

Front View
2 pictograms

Front View
1 pictogram

Front View
Up to 4 pictograms
(no arrow)

Showed within dashed outline above.

Digital artwork for this logo will be supplied by Dot Dash as an eps.

Graphic Layout - Detail
Scale 1:5

SOPA Logo zone
Scale 1:2

Principle
Section 3.4 Signage

Graphic details: pedestrian directional sign

Revision: Draft
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Steel universal column (150UC 23.4) galvanised.
2. Sign panel, 6mm thick aluminium, fine fillet on all edges to facilitate even paint coverage, 3mm radius on corners. 2 pac paint to match Dulux Charcoal with mask & sprayed graphics and anti graffiti clear coat over panel.
3. Steel base plate, 300 x 300 x 12mm thick, FSB welded to universal column.
4. M5 stainless steel, security style, button head socket cap machine screws with M5 stainless steel flat washer. At 305mm centres (nom).
5. M12 galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, minimum 270mm long.
6. Concrete pad footing. F82 mesh top and bottom.

**Construction Details**

Scale 1:20

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</table>
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

TOP VIEW
Double sided sign shown.

Section A
Scale 1:2

Section B
Scale 1:5

Principle

Construction details: pedestrian directional sign

Revision: Draft
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.
3.4.5j Directional sign: DR3 - Moveable Directional Finger Sign

Graphic Details

COLOUR
Panel colour = Pantone 116 Yellow
Post = Galvanised steel
Concrete colour = Concrete Colour Systems ‘Panther’ or equal.

Typical Location - Flag Sign
Scale 1:25
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. 12mm marine plywood sign face. Painted and fitted with hat section to fix to sign post.

2. 75 x 75 x4 SHS galvanised steel post with fully welded 12mm base plate. Cut slots 350mm long in 1 side of post to take sign face.

3. M16 hex head set screws fix base plate to precast sockets in concrete base.

4. Folded 1.2mm stainless steel hat section 350mm long fixed to sign face. No 4 horizontal linish.

5. Cast concrete base to Class 2 off form finish with a matt clear graffiti protective coating over. Cast sockets to take M16 set screws fix base plate. Apply a Refer to Engineers drawing 5674-4 for structural details.

6. Button head security style socket screws fixing through hat section into post.

7. Counter sunk hex socket head screws fixing through post into hat section frame and sign panel.

8. 125 x 12mm plate lifting lugs to each side for balanced lifting fully welded to post and base plate.

Elevations - Flag Sign
Scale 1:20

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</table>
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Construction Details

1. 12mm marine plywood sign face. Painted and fitted with hat section to fix to sign post.
2. 75 x 75 x 4 SHS galvanised steel post with fully welded 12mm base plate. Cut slots 350mm long in 1 side of post to take sign face.
3. M16 hex head set screws fix base plate to precast sockets in concrete base.
4. Folded 1.2mm stainless steel hat section 350mm long fixed to sign face. No 4 horizontal linish.
5. Cast concrete base to Class 2 off form finish with a matt clear graffiti protective coating over. Cast sockets to take M16 set screws fix base plate. Apply a Refer to Engineers drawing 5674-4 for structural details.
6. Button head security style socket screws fixing through hat section into post.
7. Counter sunk hex socket head screws fixing through post into hat section frame and sign panel.
8. 125 x 12mm plate lifting lugs to each side for balanced lifting fully welded to post and base plate.

Refer to Sheet 1 for Colour detail. Refer to Engineer’s drawing 5764-4 for structural details.
### 3.4.5k Information sign: IF1 - Regulatory Post

**Graphic Details**

**COLOUR**
- Warning Pictograms = Black, white and Pantone 116C
- Regulatory Pictograms = Black, white and Pantone Red 032C
- SOPA Logo = Dulux Western Myall
  - PG1•F7, PMS 116 and white
  - Sign Panel = Dulux Western Myall
  - PG1•F7

**SIZE**
- Pictograms = Warning = 120 x 120mm
- Regulatory = 100 x 100mm
- Pictogram Text = White, 12 mm X cap height.
- Regulatory Info Text = White, 8 mm (nom) X cap height.

---

**IF2 - Regulatory Structure**

Scale 1:20

---

<table>
<thead>
<tr>
<th>Principle</th>
<th>Section 3.4 Signage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic details: regulatory post</td>
<td>IF1</td>
</tr>
</tbody>
</table>
Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Attention
Due to this reproduction process the colours in this image are not exact representations of the final product.

NB. All structural members, fixings and/or footings to be confirmed by sign maker’s engineer.

General Construction Notes

**GENERAL**
- Hot dip galvanise all steel.

**DESIGN LOADING**
- Region A
  - Basic wind velocity = 41m/s
  - Terrain Category = 3
  - Ms = 0.95
  - Mi = 1.0
  - Mt = 1.1
- Horizontal Load 1.5kN applied at 1000 above G.L.

**WELDS and BOLTS**
- Fully weld all connections with 6mm continuous fillet welds unless noted otherwise. All welds to be grade SP unless noted otherwise.

**CONCRETE**
- Strength grade = N32
- Aggregate size = 20mm
- Slump = 60mm
- 75 cover to bolts or reinforcement.
- Vibrate concrete.
- Lap mesh 2 cross wires + 25mm minimum.

**FOUNDATION MATERIAL**
- Footing designed to found in natural material having an allowable bearing capacity of 100kPa. Install mass concrete under footings down to an adequate material as required.

**Graphic Details**

**COLOUR**
- Warning Pictograms = Black, white and Pantone 116C
- Regulatory Pictograms = Black, white and Pantone Red 032C
- SOPA Logo = Dulux Western Myall PMS 116 and white
- Sign Panel = Dulux Western Myall

**SIZE**
- Pictograms = Warning = 120 x 120mm
- Regulatory = 100 x 100mm
- Pictogram Text = White, 12 mm X cap height.
- Regulatory Info Text = White, 8 mm (nom) X cap height.

Refer to Sheet 2 for Construction Details.

**Graphic Layout**

- Scale 1:10

- Detail 1
  - Scale 1:2

- SOPA Logo zone
  - Scale 1:2

- Indicative uneven ground level
  - (where ground is uneven, this dimension is taken from the pedestrian viewing ground level)
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Steel universal column (150UC 23.4) galvanised.
2. Sign panel, 6mm thick aluminium, fine fillet on all edges to facilitate even paint coverage, 3mm radius on corners. 2 pac paint to match Dulux ‘Western Myal PG1•F7’ with mask & sprayed graphics with low sheen anti graffiti clear coating over sign panel only.
3. Steel base plate, 300 x 300 x 12mm thick, FSB welded to universal column.
4. M5 stainless steel, security style, button head socket cap machine screws with M5 stainless steel flat washer. At 305mm centres (nom).
5. M12 galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, minimum 270mm long.
6. Concrete pad footing. F82 mesh top and bottom.
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Section A
Scale 1:2

Section B
Scale 1:5
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Construction Details

1. Steel universal column (150UC 23.4) galvanized.
2. Sign panel, 6mm thick aluminium, fine fillet on all edges to facilitate even paint coverage, 3mm radius on corners. 2 pac paint to match Dulux ‘Western Myal’ with mask & sprayed graphics with low sheen anti graffiti clear coating over sign panel only.
3. Steel base plate, 300 x 300 x 12mm thick, FSB welded to universal column.
4. M5 stainless steel, security style, button head socket cap machine screws with M5 stainless steel flat washer. At 305mm centres (nom).
5. M12 galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, minimum...
6. Concrete pad footing. F82 mesh top and bottom.

Refer to Sheet 1 for Graphic Details and General Construction Notes.

Detail 1
Scale 1:2

Front View

Detail 1
Scale 1:2
3.4.5.1 Regulatory sign: IF2 - Regulatory Sign

**Graphic Details**

**COLOUR**
- Warning Pictograms = Black, white and Pantone 116C
- Regulatory Pictograms = Black, white and Pantone Red 032C
- SOPA Logo = Dulux Western Myall
  PG1•F7, PMS 116 and white

**SIZE**
- Pictograms = Warning = 120 x 120mm
- Regulatory = 100 x 100mm
- Pictogram Text = 12 mm X cap height.
- Regulatory Info Text = 8 mm (nom) X cap height.

---

**IF3 - Regulatory Structure**

Scale 1:20

---

**Graphic Layout - Graphic panel shown only**

Scale 1:10
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Sign fabricated from; Steel universal column (100UC 23.4) with 6mm signface backing panel welded to top and galvanised.
2. Sign panel, 6mm thick hot dip galvanised steel, fine fillet on all edges, 3mm radius on corners.
3. Steel base plate, 300 x 300 x 12mm thick, FSB welded to universal column.
4. M5 stainless steel, security style, button head socket cap machine screws with M5 stainless steel flat washer. At equidistant centres (nom).
5. M12 galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, minimum 270mm long.
6. Concrete pad footing. F82 mesh top and bottom.
7. Fillet weld all round ground smooth prior to galvanizing.
8. Galvanised washers to allow for drainage between panels. 3mm (nom).
General Construction Notes.

Refer to Sheet 1 for Graphic Details and drainage between panels. 3mm (nom).

7. Fillet weld all round ground smooth and bottom.

6. Concrete pad footing. F82 mesh top 270mm long.

5. M12 galvanised steel caged footing equidistant centres (nom).

4. M5 stainless steel, security style, thick, FSB welded to universal column.

3. Steel base plate, 300 x 300 x 12mm galvanised. 3mm radius on corners.

2. Sign panel, 6mm thick hot dip galvanised. Backing panel welded to top and column (100UC 23.4) with 6mm signface.

1. Sign fabricated from; Steel universal.

Construction Details

NB. All structural members, fixings and/or footings to be confirmed by sign maker’s engineer.

Due to this reproduction process the colours in this image are not exact representations of the final product. Confirm all dimensions and details on site prior to manufacture.

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details.

Attention on site prior to manufacture.
3.4.5m Regulatory sign: IF3 - Regulatory Sign

Graphic Details

FONT
The Sans Plain

SIZE
Pictogram information text = 15mm cap X height
Regulation text = 20mm cap X height

Note: Pictogram text information is indicative and to be provided by client.

COLOUR
Regulatory Pictogram = Black, white and Pantone Red 032C
'Sensitive Environment' pictogram Pantone 371.
SOPA Logo = Dulux Western Myall
PG1•F7, PMS 116 and white

This is an environmentally sensitive area. Please stay on the boardwalk

Graphic Composition - Artwork
Scale 1:5
3.4.6 Sign location plan

Sign location plan

Sign location plan shows the location and orientation of all signs. This should be based on an accurate plan of the site.

Sign locations show clearly the number of faces the sign will have and the direction the sign is facing. The sign location is numbered by the sign type followed by a unique number starting at 01. Refer to typical example below.

Double sided sign example

Finger sign example
Section 3.4 Signage

Typical sign location plan

Revision: Draft
Section 3.4 Signage

Typical sign location plan

Revision: Draft
### 3.4.7 Sign schedule

**Sign Schedule**

The Sign Schedule is a reference document that provides information about the content of each of the signs within the site. Each sign is referenced using a unique code. The Sign schedule should be read in conjunction with the Sign Location Plan.

The schedule may be generated as a database document and should code the signs and provide the following minimum information:

- Sign type code;
- Sign number;
- Location reference;
- Side 1 message;
- Side 2 message (if required);
- Specific notes about that sign.

Refer to graphic standards and the drawings for each sign type in the manual.

Refer to the following page for a typical example of a sign schedule. Note that this schedule relates to the sign location plan shown on page 74.

### Steps to Follow

1. Title the sign schedule with the name of the area concerned (e.g. Newington Armory Wharf)
2. Number sign
   - Sign type (e.g., ID3) followed by the number of that sign at the site (i.e. ID3_38).
3. Note if the sign is one or two sided.
4. Briefly comment on the location of the sign on the map for ease of reference.
5. Detail the message to be applied to the sign on side one (and side two if applicable).
   - Refer to graphic reference pages 14-15 for pictogram codes.
6. Add notes concerning - installation of the sign - location details
7. Ensure page number and date on the footer is correct.
8. Repeat steps for all proposed signs.

---

<table>
<thead>
<tr>
<th>Principle</th>
<th>Section 3.4 Signage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sign Schedule</td>
<td></td>
</tr>
<tr>
<td>Revision: Draft</td>
<td></td>
</tr>
<tr>
<td>Sign No</td>
<td>Location</td>
</tr>
<tr>
<td>---------</td>
<td>----------</td>
</tr>
</tbody>
</table>
| DR1_05 | WHARF    | ← Armory WHARF 30M  
Finger 1 Points North  
Finger 2 Points East  
Finger 3 Points South  
Finger 4 Points West  | Mirror image of side 1  
Mirror image of side 1  
Mirror image of side 1  
Mirror image of side 1 | |
| ID3_38 | WHARF    | Armory Gallery - Bldg 18 50m  
Armory Amphitheatre 400m  
Armory Theatre - Bldg 22 400m  
Birds Australia - Bldg 130-136 520m  
Blaxland Riverside Park 60m  
PMF 30m | Armory Gallery - Bldg 18  
(detailed Armory map Panel) West  
(What's on cabinet) | |
| ID3_42 | WHARF    | Newington Armory  
(What's on cabinet) | Newington Armory  
(detailed Armory map Panel) South  
Newington Armory Venues  
PMF | |
| DR1_06 | FIVE WAYS | ← Armory Gallery - Bldg 18 425m  
Armory Wharf 450m  
Blaxland Riverside Park 480m  
PMF 450m  
Birds Australia - Bldg 130-136 160m  
Education Centre Bldg 46 700m  
The Lodge 200m | Mirror image of side 1  
Mirror image of side 1  
Mirror image of side 1 | Sign pole (100UC) will need to be longer than usual. refer to 4042_DR1.
3.4.5d Identification sign: ID4 - Place Marker

**Typical Location**
Scale 1:20

<table>
<thead>
<tr>
<th>Principle</th>
<th>Section 3.4 Signage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic details: pedestrian place marker</td>
<td>Revision: Draft</td>
</tr>
</tbody>
</table>

**Drawings**
- **FRONT VIEW**
- **TOP VIEW**
- **SIDE VIEW**
- **ISOMETRIC VIEW**
- **B**
- **A**
Graphic Details

FONT
The Sans Plain

SIZES
Text = 75mm cap X height

COLOUR
Sign Panel = to match Dulux Charcoal
Text = White
SOPA logo = Pantone 116C and white

Shown within dashed outline opposite. Digital artwork for this logo will be supplied by Dot Dash as an eps.

SOPA Logo zone
Scale 1:2

原则
图形细节: 人行道标记

第3.4节标志

修订: 草案

ID4
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Galvanised steel universal column (150UC 23.4)
2. Sign panel, 6mm aluminium, 1mm fillet on all edges and corners. 2 pac paint to match Dulux Western Myall (low sheen finish) with mask & sprayed graphics and anti graffiti clear coat (low sheen finish).
3. MS stainless steel, security style, button head socket cap machine screws with MS stainless steel flat washer. At 345mm centres.
4. 12mm steel base plate FSB welded to sign frame.
5. M12 galvanised steel caged footing bolts, minimum 400mm long, with galvanised steel levelling nuts, set into concrete footing. Sign maker’s engineer to confirm these dimensions.
6. Concrete pad footing. F82 mesh top and bottom. Size to be determined by the sign maker’s engineer.
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.
3.4.5e Identification sign: ID5 - Armory Building Identification Sign

Graphic Details

**FONTS**
X cap heights:
Numbers = 305mm
Name = 47mm

**COLOUR**
Building ID panel = Dulux Spanish Eyes
Numbers = White (Dulux Lexicon)

Construction Details

Building ID: 6mm thick aluminium panel 2 pac painted, mask and spray graphics pinned 10mm off wall with stainless steel vandal resistant pin fixings. No fasteners to be visible on sign face.

Event Sign: 6mm thick satin natural anodised removable aluminium panel. Stainless steel vandal resistant pin fixings. UV resistant adhesive vinyl graphic applied to face (by signmaker). No fasteners to be visible on sign face.

Event Sign panel is an optional element. Confirm with SOPA prior to construction.
3.4.5f Identification sign: ID6 - Moveable Blade Sign

Graphic Details

COLOUR
Cladding colour = White
Trim = Pantone 116 Yellow
Concrete colour = Concrete Colour Systems ’Panther’ or equal.

Elevations - 4m Vehicular Blade
Scale 1:20
Elevations - 4m Vehicular Blade
Scale 1:20
Construction Details

Unless otherwise noted all dimensions in millimetres.
Use figured dimensions in preference to scaling.
Contractor to confirm all dimensions and details on site prior to manufacture.

1. Fabricated 63.5 x 63.5 x 3.5 SHS aluminium frame. Horizontal supports @900mm centres to suit panel height of cladding and to provide stiffening to the 10mm fixing plate.

2. Clad frame with 2mm thick aluminium sheet on both sides. Fix to frame via countersunk rivets as shown and paint out heads to match.

3. 10mm aluminium fixing plate welded to internal frame. Drilled and tapped to align with holes in hot dipped galvanised angle.

4. 90 x 3mm aluminium trim fixed around frame via hex socket head countersunk stainless fixings. (Enables the use of sign faces up to 10mm thick.)

5. Sign face fixed to cladded frame with pan head socket head fixings. Refer to 3788.ID1a for material options.

Apply double sided tape to sign face to ensure neat fit to cladded frame.

6. Fit aluminium thin sheet nutsert fixings to suit sign face configurations.

Elevations - 4m Blade Sign Base

Scale 1:25
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Sectional Views
Scale 1:10

TOP VIEW

Detail 1
Scale 1:10

Section 3.4 Signage
Revision: Draft
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Elevations - 4m Base
Scale 1:25

Principle
Graphic details: moveable blade sign

Revision: Draft

Section 3.4 Signage

ID6
### Material Matrix - material suitability based upon duration of use.

- Screw fix sign face to nuts, allowing secure mounting and easy removal.
- When replacing sign face, consider using existing panels as a template to locate fixing holes.
- Short term sign panels to use suitable double sided tape for temporary mounting.
- Plywood sign panels can be reused several times.
- Digital print onto adhesive vinyl and / or computer cut self adhesive vinyl

#### Fixings

<table>
<thead>
<tr>
<th>Duration</th>
<th>Graphic Applications</th>
<th>Production &amp; Installation</th>
<th>Sign Face Material</th>
<th>Sheet Size (mm)</th>
<th>Sign Face Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 week</td>
<td>Existing paper print wrapped over and taped to back.*</td>
<td>SOPA - CAD Department</td>
<td>3.6mm Exterior Grade Plywood</td>
<td>1220 x 2440</td>
<td>A B</td>
</tr>
<tr>
<td>3 Months</td>
<td>Front applied self adhesive vinyl.**</td>
<td>Sign Maker</td>
<td>5mm</td>
<td>1200 x 2400</td>
<td>A B</td>
</tr>
<tr>
<td>12 Months</td>
<td>Front applied self adhesive vinyl.**</td>
<td>Sign Maker</td>
<td>9.5mm Weathertex</td>
<td>1220 x 3660</td>
<td>B B</td>
</tr>
<tr>
<td></td>
<td>Front applied self adhesive vinyl.**</td>
<td>Sign Maker</td>
<td>0.9 gauge colorbond</td>
<td>900 x 3600 (cut off roll)</td>
<td>B B</td>
</tr>
<tr>
<td></td>
<td>Front applied self adhesive vinyl.**</td>
<td>Sign Maker</td>
<td>1.2mm Aluminium</td>
<td>1200 x 3600</td>
<td>B B</td>
</tr>
</tbody>
</table>

---

**SIGN TYPE ID1**

**SIGN TYPE ID2**

**Sign Face Configurations**

Not to Scale
Construction Details
Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.
3.4.5g Identification sign: ID7 - Moveable Map/Information Sign

Graphic Details

**COLOUR**
Cladding colour = White
Trim = Pantone 116 Yellow
Concrete colour = Concrete Colour Systems ‘Panther’ or equal.

**Typical Locations - Directory Sign**
Scale 1:20

<table>
<thead>
<tr>
<th>Principle</th>
<th>Section 3.4 Signage</th>
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</thead>
<tbody>
<tr>
<td>Graphic details: moveable directory/map sign</td>
<td>ID7</td>
</tr>
<tr>
<td>Revision: Draft</td>
<td>DESIGN INTENT ONLY</td>
</tr>
</tbody>
</table>
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. 63.5 x 63.5 x 3.2 SHS aluminium frame with 12mm thick base plate welded to bottom.

2. Clad with 2mm thick aluminium sheet on both sides. Fix to frame via countersunk rivets and paint out heads to match.

3. Cast concrete base to Class 2 off form finish with a sacrificial matt clear graffiti protective coating over. Cast sockets to fix base plate. Corners bevelled 20mm to aid manufacture and to reduce damage during transportation.

4. Sign face fixed to cladded frame with pan head socket head fixings. Refer to 3788.ID1a for material options.

5. 90 x 3mm aluminium trim fixed to frame via hex socket head countersunk stainless fixings. (Enables the use of sign faces up to 10mm thick.)

6. 12 x 100mm galvanised lifting plate to sit flush into recess in concrete base. M16 counter sunk set screw fix lifting plate to cast sockets in base.

7. M16 hex head set screw fix sign frame base plate to cast sockets in base.

8. Fit aluminium thin sheet nutsert fixings through cladding and frame.
Isometric View - Indicative Sign Panel Connection
Not to Scale

Sectional View
Scale 1:10

Construction Details
Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.
3.4.5c Identification sign: ID3 - Pedestrian Map/Information Sign

Elevations
Scale 1:20
BACK (or FRONT) VIEW

2nd Map or Flat Graphic Option
Note: If the sign is located on a precinct boundary, each sign face may have a different precinct name.

BACK (or FRONT) VIEW

Cabinet Option
Graphics shown are indicative only.

### Principle
Graphic details: pedestrian map

### Section 3.4 Signage
Revision: Draft
Graphic Details

FONT
The Sans Plain

SIZE
Primary Identification text = 35mm cap X height
Secondary Identification text = 26mm cap X height

COLOUR
Logo strip on sign panel = to match Dulux Western Myall
Identification text = to match Dulux Western Myall
SOPA logo = To match PMS 116C and white
**Construction Details**

Unless otherwise noted all dimensions are in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Steel parallel flange channel (100 PFC) sign frame.

2. Sign face 6mm thick galvanised steel panel. Graphic elements (excluding map) mask & sprayed 2 pac paint. All edges to have a fine fillet to assist an even galvanised layer.

3. 5mm thick galvanised steel panel with 1mm thick aluminium map (or graphics) panel, full colour “Aluimage” (or equal, ie. digital photo anodising), adhered to front. Rear panel to be blank 5mm galvanised steel panel.

4. 40 x 40 x 5mm steel angle welded to map panel (item 3) and fixed in place from outside edge of sign frame.

5. 6mm steel plate kickplate continuous welded between uprights of sign frame (and to base plate in Footing Option 2). Visible welds ground smooth, no grind marks to be visible.

6. Base plate, 16mm thick steel, FSB welded to sign frame.

7. M16 galvanised steel caged footing bolts, minimum 400mm long, with galvanised steel leveling nuts, set into concrete footing.

8. Concrete pad footing 900 x 900 x 450mm. F82 mesh top and bottom.

---

**Principle**  
**Construction details: pedestrian map**

**Section 3.4 Signage**

**Revision:** Draft

**Design Intent Only**
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

9. Base plate (option 2), 16mm steel thick base plate FSB welded to sign frame. 10mm at 45° beveled (top) edge.

10. Ensure sign is level and plumb with the use of packers. Finish with a cement based grout coloured to match concrete slab.

11. M12 galvanised, counter sunk socket machine screws into M12 Dyna Sets (or equal) min. 50mm embedment.

12. M5 stainless steel, button head security style, socket cap machine screws with M5 stainless steel flat washer.


14. Cabinet shell, lockable and weather resistant. Folded 2mm aluminium with welded corners. 2 pac painted to match Dulux Western Myall inside and out.

15. Cabinet glass. 6mm thick toughened glass with security film applied to the inside face, mounted on the inside of the cabinet face.


Construction Details - Footing Option 2 (only when noted)

Scale 1:20

NOTE:
Fixing to existing concrete slab may only be done with the approval of SOPA. Refer to General Construction Notes (Sheet 1) for engineers specifications.
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

17. Cabinet backing plate. 5mm plate tolerances shown in section C-C are necessary for the clearance of the cabinet shell when it is being opened and closed. Painted to match cabinet shell.

18. What’s On poster. Laminated poster, visible area 400 x 850mm. Allow a minimum bleed of 15mm on all sides. Laminated poster should be 430 x 880mm.

19. Magnetic poster holder adhered to poster backing board. Two magnetic strips with clear plastic sheet as hinge mechanism for the easy installation and removal of posters.

20. Poster backing board. 8mm (nom.) Thick painted to match cabinet shell, fastened to backing plate. Moisture resistant substrate (not MDF).

21. Cabinet locks. To be similar or equal to Hafele cam lock 235.72.269.

22. M5 stainless steel, counter sunk, security style, socket machine screws and nuts painted to match the cabinet shell.
**Construction Details**

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

---

**Detail 2 - fixed to top of existing slab**

Scale 1:5

---

**Detail 3**

Scale 1:5

---

**Detail 5**

Scale 1:1

---

**Detail 4**

Scale 1:5

---

**Principle**

Construction details: pedestrian map

---

**Section 3.4 Signage**

Revision: Draft
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

Cabinet Details

Scale 1:10

<table>
<thead>
<tr>
<th>Principle</th>
<th>Section 3.4 Signage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction details: pedestrian map</td>
<td></td>
</tr>
</tbody>
</table>

Revision: Draft
Using the walkway
This walkway is 18 metres above the brickpit floor, so some movement may be experienced with use in windy weather.
If you follow the directions and signs, the walkway is safe - keep to the walkway and never climb the fences.
The area is under surveillance by CCTV.

A Change of mind
If you decide not to finish the walk - just retrace your steps.

Warning
• The cliff edge is unstable.
• You risk serious injury if you fall from the cliff edge or structure.
• Anyone with vertigo should consider if they want to use the walkway.

Entry Conditions
• Always keep on the walkway.
• Keep off fences.
• Adults must supervise children.
• Leave Bicycles in racks - or dismount and wheel.
• Skateboards, skates and cycling not allowed.
• No dogs are allowed on the walkway.
• No throwing of objects from the walkway.
3.4.5b Identification sign: ID2 - Pedestrian Arrival

Elevations
Scale 1:50

Elevations
Scale 1:50

TOP VIEW

FRONT VIEW
Graphics are indicative only

SIDE VIEW

Venues shown are indicative only
Pictograms shown are indicative only

1-10 pictograms

Pictogram Placement Priority
Not to Scale

Principle
Graphic details: pedestrian arrival sign

Section 3.4 Signage

Revision: Draft

SIGN TYPE DR
Graphic Details

FONT
The Sans Plain

SIZES
Primary Name = 100mm cap X height
Internal site names = 54mm cap X height
Pictograms = 125 x 125mm
Logo “circle” = 80mm

COLOUR
Lower sign panel background = To match Dulux Western Myall
Upper sign panel background = Dulux Industrial Metal Shield Hammer Finish Silver
Pictograms (general) = Black and White
parking pictogram (where required)= To match Pantone 653C
SOPA Logo = Pantone 116C and White
Text = Black

Reference to Sheet 1 for Graphic Details.

Construction Notes.

1. Sign frame, steel parallel flange channel (100 PFC) with mitre joins in corners.
2. Cross members, steel, FSB welded to sign frame.
3. 6mm steel plate continuous fillet welds and BOLTS.
4. Kickplate, 6mm steel plate continuous fillet welds welded to sign frame.
5. Galvanised steel caged footing bolts, welded between uprights of sign frame.
6. Concrete pad footing to the signmaker's engineer.
7. 25mm thick steel base plate FSB welded to flange channel.

NB. All structural members, fixings and/or footings to be confirmed by sign maker’s engineer.
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Sign frame, steel parallel flange channel (100 PFC) with mitre joins in corners.
2. Cross members, steel, FSB welded to flange channel.
3. Sign panel, 6mm thick Aluminium. All edges of panel to have a 1mm radius fillet to facilitate the best paint coverage. Graphic elements mask & sprayed 2 pac paint.
4. Kickplate, 6mm steel plate continuous welded between uprights of sign frame. Visible welds ground smooth, no angle grind marks to be visible. It should appear as one piece of metal.
5. Galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, to the signmaker’s engineer specifications.
6. Concrete pad footing to the signmaker’s engineer specifications. F82 mesh top and bottom.
7. 25mm thick steel base plate FSB welded to sign frame.
8. M6 stainless steel, security style, button head socket cap machine screws, to fix sign panel to channel flange. At equal centres.

Construction Details - elevations
Scale 1:25
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

**Construction Details - top view**
Scale 1:20

**Base Plate Detail**
Scale 1:5

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**Principle**

**Construction details: pedestrian arrival sign**

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**Section 3.4 Signage**

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**Revision:** Draft

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**Design Intent Only**

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**ID2**
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

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**Principle**

Construction details: vehicle arrival sign

**Section 3.4 Signage**

Revision: Draft
3.4.5a Identification sign: ID1 - Vehicle Arrival

Not to Scale

Elevations

Printed at A3

Scale 1:20

Elevations

Graphics are indicative only

FRONT VIEW

5th

6th

7th

8th

9th

SIDE VIEW

600

Back view

BACK VIEW

600

9th

1st

2nd

3rd

4th

5th

1 - 10 pictograms

Pictogram Placement Priority

Not to Scale

9th

7th

5th

3rd

1st

10th

6th

8th

4th

2nd

If Parking pictogram is to be used, it will always be used in this position

Graphic details: vehicle arrival sign

Revision: Draft
**Graphic Details**

**FONT**
The Sans Plain

**SIZES**
Park Name = 280mm cap X height
Internal site names = 83mm cap X height
“Open sunrise to Sunset” text = 65mm cap X height
Pictograms = 200 x 200mm
Logo “circle” = 90mm

**COLOUR**
Lower sign panel background = To match Dulux Western Myall
Upper sign panel background = Dulux Industrial Metal
Shield Hammer Finish Silver
Pictograms (general) = Black and White
parking pictogram = To match Pantone 653C
SOPA Logo = Pantone 116C and White
Text = Black

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**Construction Details**

- **WELDS and BOLTS**
  - Fully weld all connections with 6mm above G.L.
  - Vertical Load 1.5kN applied at 1000
  - Horizontal Load 1.5kN applied at 1000
  - Terrain Category = 3
  - Basic wind velocity = 41m/s
  - Region A

- **DESIGN LOADING**
  - Horizontal and Vertical Loads at 1000
  - Moment (M) = 1.0
  - Factor of Safety (FOS) = 1.0

- **GENERAL**
  - General Construction Notes
  - SOPA Logo = Pantone 116C and White
  - Pictograms (general) = Black and White
  - Parker pictogram = To match Pantone 653C
  - SOPA Logo = Pantone 116C
  - Text = Black

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**Foundation Material**

- **Concrete**
  - Aggregate size = 20mm
  - Strength grade = N32
  - 75 cover to bolts or reinforcement.

- **Welds**
  - Continuous fillet welds unless noted elsewhere.

- **Reinforcement**
  - Lap mesh 2 cross wires + 25mm
  - Vibrate concrete.

---

**Graphic Details**

- **Logo “circle”**
  - 90mm

- **Pictograms**
  - 200 x 200mm

- **Text**
  - “Open sunrise to Sunset” = 65mm cap X height
  - Internal site names = 83mm cap X height
  - Park Name = 280mm cap X height

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**Revision: Draft**
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

1. Sign frame, steel parallel flange channel (150 PFC) with mitre joins in corners.
2. Cross members, 150 x 100 x 6mm steel RHS, FSB welded to flange channel.
3. Sign panel, 6mm thick Aluminium. All edges of panel to have a 1mm radius fillet to facilitate the best paint coverage. Graphic elements mask & sprayed 2 pac paint.
4. Kickplate, 6mm steel plate continuous welded between uprights of sign frame. Visible welds ground smooth, no angle grind marks to be visible. It should appear as one piece of metal.
5. M20 Grade 4.6 galvanised steel caged footing bolts, with galvanised steel leveling nuts, set into concrete footing, minimum 500mm with 100mm cog at end of bolt.
6. Concrete pad footing. F82 mesh top and bottom.
7. 25mm thick steel base plate FSB welded to sign frame.
8. M6 stainless steel, security style, counter sunk socket cap machine screws, to fix sign panel to flange channel. At equal centres.
9. Aluminium angle, 50 x 50 x 6mm, welded to the back of the sign faces. Fastened to the sign frame as detailed.
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.

<table>
<thead>
<tr>
<th>Principle</th>
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<tr>
<td>Construction details: vehicle arrival sign</td>
<td></td>
</tr>
<tr>
<td>Revision: Draft</td>
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</tr>
</tbody>
</table>

**TOP VIEW**

**Detail 3**
Scale 1:10

**Base Plate Detail**
Scale 1:5
Construction Details

Unless otherwise noted all dimensions in millimetres. Use figured dimensions in preference to scaling. Contractor to confirm all dimensions and details on site prior to manufacture.