



# Signage Manual

## Bus Network Infrastructure

April 2023

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|                     | 4.9        | DS-8 Directional Sign - Freestanding                      | 4.46           | EX-1       | Precinct Information Sign                        |
|                     | 4.10       | FI-1a Room Identification Sign                            | 4.47           | EX-2       | Precinct Major Directional Sign                  |
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|                     | 4.12       | FI-1g Help Phone Identification Sign                      |                |            |  |
|                     | 4.13       | FI-2 Facility Identification Sign - Under Awning          |                |            |  |
|                     |            |   | <b>section</b> | <b>5.0</b> | <b>Technical Specifications for Manufacture</b>  |

A bus station is an important node within many journeys. Commuters change their form of transportation at this node and expect to do so with minimal difficulty. The essence of a bus station and supporting infrastructure is the circulation patterns of commuters in transit. Therefore, the design of a successful bus facility (new or upgraded) must begin with circulation design/analysis.

A perfect circulation design is “legible” – easy for all to comprehend; totally self-explanatory – but this is unlikely to be achieved within the complex interactions of site, function and urban and social context that govern station design. So a clear “wayfinding” strategy is required to “make sense of” the circulation pattern. Signage is a key element to assist commuters in the station environment.

This manual is intended to provide guidance to those who are preparing tender documents for the provision of signs at bus infrastructure within the TransLink network. It contains:

- Procedural information
- Technical details of typical sign types

Before the content of this manual can be applied effectively, however, the design of the context of the signs (wayfinding and thus circulation) must be finalised. There can be no engineering formula for the location of signs. Effective signage is the product of circulation design by a person skilled in the manipulation of the contextual perception of all commuters. This involves not only the placing of the most appropriate sign in the best location, but also, the minimisation of the number of signs to reduce clutter and improve comprehension. Creative amalgamation of “signs” is desirable – some examples occur in the “manufactured environments” section of this manual.

The issues within the previous paragraph indicate that it is desirable to introduce a stage of work that precedes the development of the signage “brief”. For new stations or station upgrades, this preparation of signage layout and selection of type is best incorporated into the work of the station designer. For existing sites a preliminary work stage (probably by a specialist) is indicated.

# Bus network infrastructure signage

## Signage sequence of work and approval process



### Introduction

It is assumed that each signage installation project will be under the control of a Project Officer appointed by the relevant stakeholders. The following Stages apply to each project to the degree appropriate to the particular project.

### Stage 1 – by Project Officer

1. Consult with TransLink (or nominated representative) and prepare a brief on the signage requirements for the station in question. The brief will contain:

- Required extent of signage
  - Priorities for signage – eg Rank entries in order of importance/demand
  - Relevant issues arising out of the local context – eg High usage by persons with particular disabilities
  - Restrictions on platform access, working hours, etc
  - Extent of signage contractor's work in relation to electrical (and comms) supply to illuminated signs
  - Any impacts the proposed signs may have on other components, such as security camera positions.
  - Where the proposed signage is associated with a new station or a major station upgrade, the brief may also include a preliminary signage concept prepared by the station designer.
2. Select/appoint a signage contractor via an approved process.

### Stage 2 – by Signage Contractor

Prepare a preliminary signage layout for the station and all other facilities required to be identified in accordance with the brief generated in stage 1 of the process.

The signage plan is to identify the following site features –

- Public and private roadways associated with the site.
- Paths of travel to the site and within the site, including footpaths and crossing points.
- Pedestrian and vehicle entry points into the station grounds.
- Location of car parks, passenger drop-off bays, taxi ranks and the like associated with the station and within a general radius agreed to in Stage 1.
- The general layout of the station including, but not limited to, access paths, buildings, structures, footbridges, facilities and platforms.

The signage plan is to identify the following information specific to signage –

- Locations and type of signs in accordance with the signage requirements brief.
- The specific location of each sign, describing its orientation, height, distance from any paths of travel and the like.
- The message content of each sign / sign face, including text, pictograms, Braille, and arrows.
- Installation details where connections, footings etc differ from the design intent in the manual.

The signage plan is to be accompanied by –

- Clear statements of design/location rationale.
- Structural Engineer's certification that the proposed fixing locations for the signage provide adequate support.

### Stage 3 – by Signage Contractor & Project Officer

Submit signage layout plans to TransLink (or nominated representative) for review.

### Stage 4a – by Signage Contractor

On issue of the reviewed plans from TransLink address all comments provided with the plans and prepare a final Signage Layout Plan.

### Stage 4b – by Project Officer

Determine what, if any, lighting upgrade is required for the signs and determine who is to design and/or install the lights. In conjunction with the signage layout Plan, prepare a lighting diagram that indicates compliance with the required lux levels at the face of each sign.

### Stage 5a – by Signage Contractor & Project Officer

Submit signage layout plans to TransLink for final review.

### Stage 5b – by Project Officer

Submit required lighting / lux level plans to TransLink for final review.

**Note: The balance of the work includes electrical (and possibly lighting) only to the extent stated in the Brief and/or instructed by the Project Officer.**

### Stage 6 – by Signage Contractor

On issue of the reviewed plans from TransLink address all comments provided and issue a final Signage Plan for approval by TransLink.

### Stage 7 – by Signage Contractor

On approval of the plans fabricate signage in accordance with the TransLink Bus Network Infrastructure Signage Manual.

### Stage 8 – by Signage Contractor

Prior to the installation of the fabricated signs on site prepare a work method Statement and Risk Management plan and submit these documents to TransLink.

TransLink will provide advice on whether any further approvals are required to undertake the installation work.

### Stage 9 – by Signage Contractor

Install signage on site in accordance with the agreed Work Method Statement, Risk Management Plan and any other requirements stipulated by TransLink (or Nominated Representative).

# Principles for bus network infrastructure signage

Section



The overall approach is to provide an easily accessible bus station environment through information and identification of facilities.


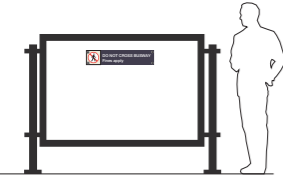
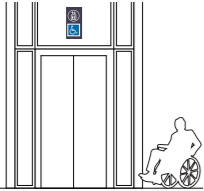
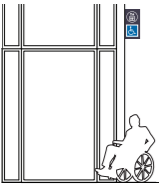
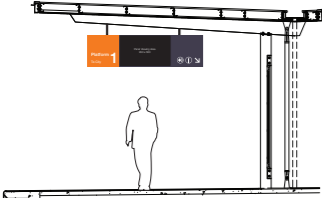
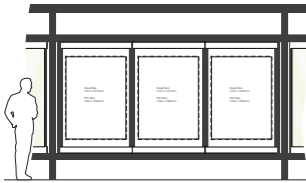
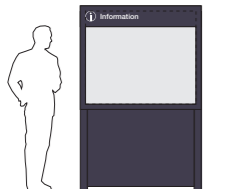
Sign types are categorised as 4 types -

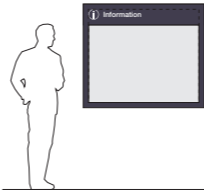

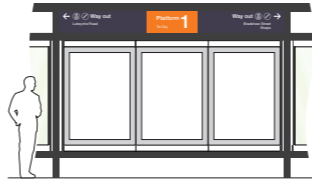



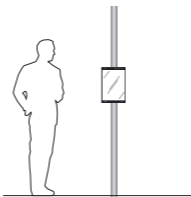
Directional Signs (DS)  
Facility Identification (FI)  
Information System (IS)  
Primary Identification (PI)

A summary of sign types are as follows:

1. 'Main' facility PI signs identify the entry points to the site / station and are located at the main approaches.
2. 'Secondary' facility PI signs are located in key locations to support the 'Main' PI signs where applicable to draw commuters towards the station access points to platforms. Note that the secondary PI signs feature less information than the main PI signs.
3. If a Park 'n' ride facility exists, then it is identified at the main entrance, on the main PI sign.
4. Information signs display a locality map and incorporate other general information relating to the zone boundaries and fares. NOTE: TransLink to provide maps and other printed material.
5. Each Platform is identified and incorporates timetable and route information.
6. Kiss 'n' ride and Taxi zones are signed. NOTE: These are for pedestrian identification only and are not enforceable.
7. Staff facility areas (eg toilets) are signed as "Staff Only".
8. Public facilities are identified.
9. Identify accessible facilities. Accessible signs are to supplement high level signage.
10. Regulatory information can be incorporated within existing sign types.
11. Directional signs direct to station facilities, other public transport and to any local shopping centres and community facilities.
12. Signs are to be located perpendicular to the flow of traffic (either vehicular or pedestrian).






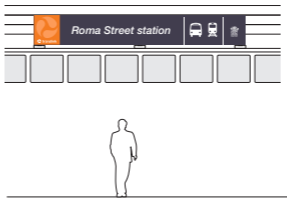

| SCHEMATICS  | SIGN TYPE  | LOCATION                                   | PAGE | SCHEMATICS  | SIGN TYPE   | LOCATION                          | PAGE |
|---|--|--|------|---|---|-----------------------------------|------|
|    | <b>DS-1</b> Directional Sign - Pole Mount                        | At minor decision points - freestanding    | 4.1  |    | <b>DS-7</b> Directional Sign - Wall/Column Mounted        | At decision points - wall mounted | 4.8  |
|    | <b>DS-2</b> Directional Sign - Under Awning                      | At minor decision points - under awning    | 4.2  |    | <b>DS-8</b> Directional Sign - Freestanding               | At decision points - freestanding | 4.9  |
|   | <b>DS-3</b> Minor Directional Sign - Suspended                   | At minor decision points - suspended       | 4.3  |   | <b>FI-1a</b> Room Identification Sign                     | On door                           | 4.10 |
|  | <b>DS-4</b> Major Directional Sign - Suspended                   | At decision points - suspended             | 4.4  |  | <b>FI-1b</b> Room Identification Sign (Braille & Tactile) | On wall next to door              | 4.11 |
|  | <b>DS-4a</b> Illuminated Directional Sign                        | Suspended or mounted to bulkhead           | 4.5  |  | <b>FI-1g</b> Help Phone Identification Sign               | On help phones                    | 4.12 |
|  | <b>DS-6a</b> Directional Sign - Wall Mounted (Braille & Tactile) | At specific decision points - wall mounted | 4.6  |  | <b>FI-2</b> Facility Identification Sign - Under Awning   | Under awning                      | 4.13 |
|  | <b>DS-6b</b> Directional Sign - Freestanding (Braille & Tactile) | At specific decision points - freestanding | 4.7  |  | <b>FI-3a</b> Kiss 'n' Ride Identification Sign            | At head of Kiss 'n' Ride zone     | 4.14 |


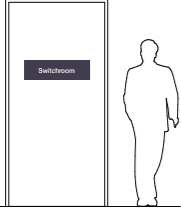
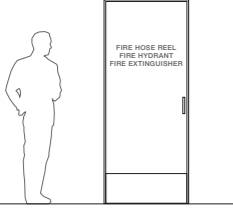

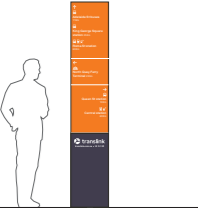

| SCHEMATICS  | SIGN TYPE  | LOCATION                                       | PAGE |
|---|--|--|------|
|    | <b>FI-3b</b> Taxi Identification Sign                    | At head of Taxi zone                           | 4.15 |
|    | <b>FI-5</b> Facility Sign                                | Wall / fence / pole mounted - as required      | 4.16 |
|    | <b>FI-6a</b> Facility Identification Sign - Wall Mounted | Wall mounted above facility                    | 4.17 |
|  | <b>FI-6b</b> Facility Identification Sign - Projecting   | Projecting above facility                      | 4.18 |
|  | <b>IS-4</b> Real Time Information Sign - Platform        | On casing, either side of information screen   | 4.19 |
|  | <b>IS-5</b> Information Cabinet                          | As required                                    | 4.20 |
|  | <b>IS-6c</b> Information/Map Sign - Freestanding         | As required<br>NOTE: Only used at Bus Stations | 4.21 |

| SCHEMATICS  | SIGN TYPE  | LOCATION   | PAGE |
|---|--|--|------|
|    | <b>IS-6d</b> Information/Map Sign - Wall mounted       | As required<br>NOTE: Only used at Bus Stations   | 4.22 |
|    | <b>IS-7</b> Bus Stop Sign - Under Awning               | Mounted under awning at lead stop  | 4.23 |
|    | <b>IS-8</b> Information Sign                           | Wall mounted above cabinets on platform and concourse                                    | 4.24 |
|  | <b>IS-9c</b> Real Time Information Sign - Non Platform | On casing, next to information screen  | 4.25 |
|  | <b>IS-10a</b> Bus Stop Blade Sign                      | At bus stop<br>Located at the boarding point of the bus stop<br>NOTE: Not used at Busway | 4.26 |
|  | <b>IS-10b</b> Bus Stop - J Pole Sign (Translink)       | At bus stop<br>Located at the boarding point of the bus stop                             | 4.27 |
|  | <b>IS-10e</b> A3 Timetable Case                        | Located at the boarding point of the bus stop  | 4.28 |



| SCHEMATICS  | SIGN TYPE   | LOCATION  | PAGE |
|---|---|---|------|
|    | <b>IS-11a</b> Parking Conditions Sign - Freestanding          | Parking Conditions Sign - Freestanding  | 4.29 |
|    | <b>IS-11b</b> Parking Conditions Sign - Wall mounted          | At entrance to car park   | 4.30 |
|    | <b>IS-13</b> Lift Directory                                   | Next to lift doors  | 4.31 |
|  | <b>PI-1</b> Pylon Identification Sign - Large                 | Main sign to identify site / station from major approaches                      | 4.32 |
|  | <b>PI-2</b> Pylon Identification Sign                         | Main sign to identify site / station from major approaches                      | 4.33 |
|  | <b>PI-3a</b> Flagpole Identification Sign - Support sign only | Secondary sign to identify station as a support to the main identification sign | 4.34 |
|  | <b>PI-3b</b> Flagpole Identification Sign                     | Main sign to identify site / station from major approaches                      | 4.35 |

| SCHEMATICS  | SIGN TYPE  | LOCATION  | PAGE |
|---|--|---|------|
|    | <b>PI-3c</b> Projecting Identification Sign                  | Main sign to identify site / station from major approaches - fixed to building structure                      | 4.36 |
|    | <b>PI-4</b> Banner Sign - Support sign only                  | Secondary sign to identify station as a support to the main identification sign - fixed to building structure | 4.37 |
|    | <b>PI-5</b> Entry Identification Sign - Support sign only    | Secondary sign to identify station entry as a support to the main identification sign                         | 4.38 |
|  | <b>PI-6a</b> Station Identification Sign                     | On platform in every second shelter bay. Alternate sign panel as required.                                    | 4.39 |
|  | <b>PI-6b</b> Government Logo Sign                            | On platform as required.  | 4.40 |
|  | <b>PI-12d</b> Suspended Identification Sign                  | Main sign to identify site / station from major approaches  | 4.41 |
|  | <b>PI-15a</b> Minor Station Identification (Non illuminated) | Main sign to identify site / station from major approaches  | 4.42 |

| SCHEMATICS  | SIGN TYPE                                     | LOCATION  | PAGE |
|---|---|---|------|
|    | <b>RP</b> Rendezvous Point Sign               | As required   | 4.43 |
|    | <b>ST-1</b> Standard Door Sign - Panel        | On door   | 4.44 |
|    | <b>ST-2</b> Statutory Sign - Vinyl            | On door   | 4.45 |
|  | <b>EX-1</b> Precinct - Information Sign       | At specific decision points - freestanding (external precinct sign) | 4.46 |
|  | <b>EX-2</b> Precinct - Major Directional Sign | At specific decision points - freestanding (external precinct sign) | 4.47 |
|  | <b>EX-3</b> Precinct - Minor Directional Sign | At specific decision points - freestanding (external precinct sign) | 4.48 |

| SCHEMATICS | SIGN TYPE | LOCATION | PAGE |
|------------|-----------|----------|------|
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|            |           |          |      |

# Principles for bus network infrastructure signage

## Identifying circulation paths


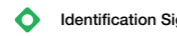



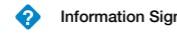

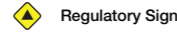

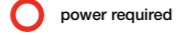

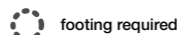
1.3.1

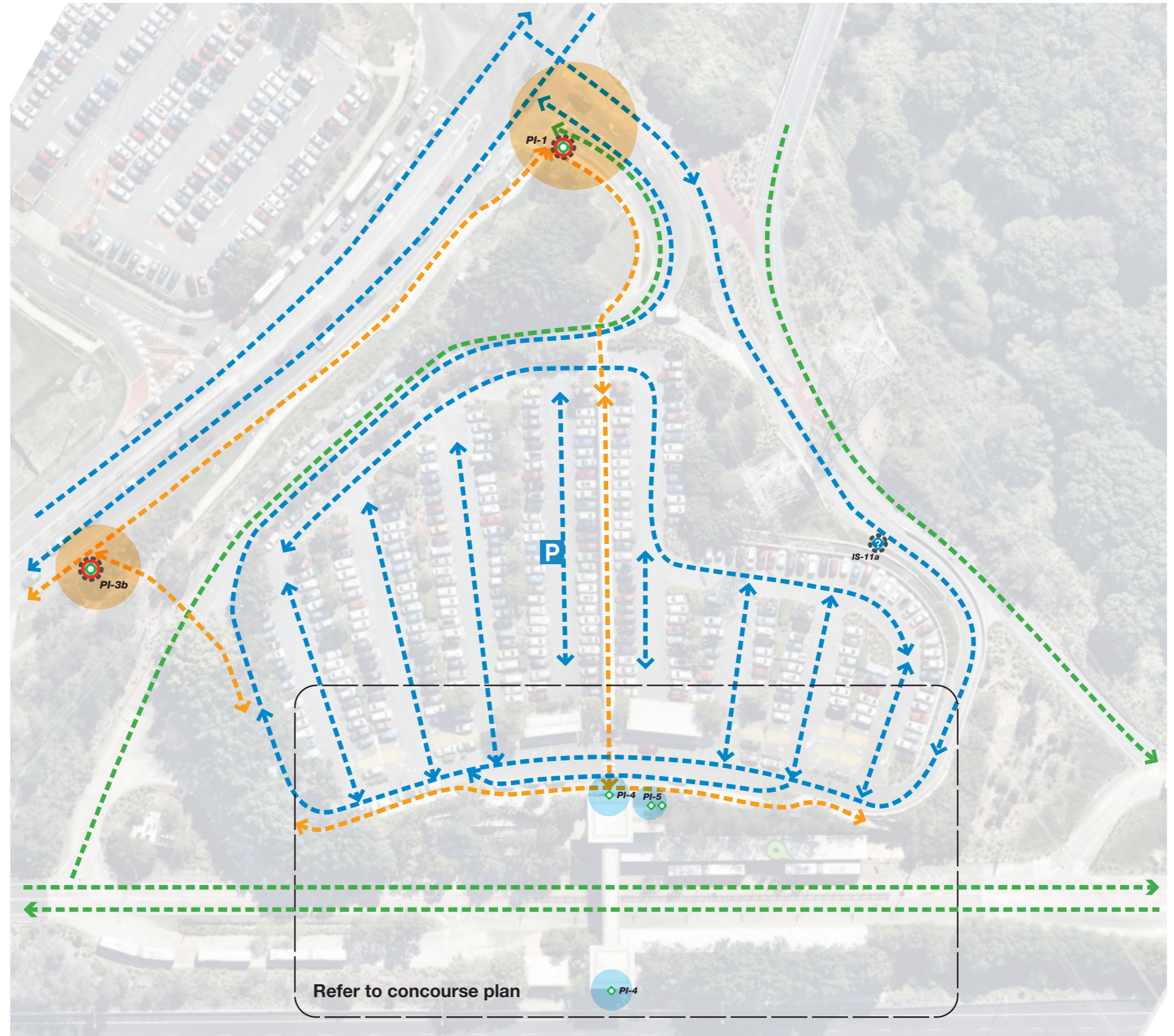
The following circulation paths are used to identify where signage is required based upon decision points along paths. When used in conjunction with the sign type description of typical purpose, location it is possible to determine the sign type requirement for identification, information, and direction purposes.

These example stations are shown:

- busway station
- bus station

### Legend

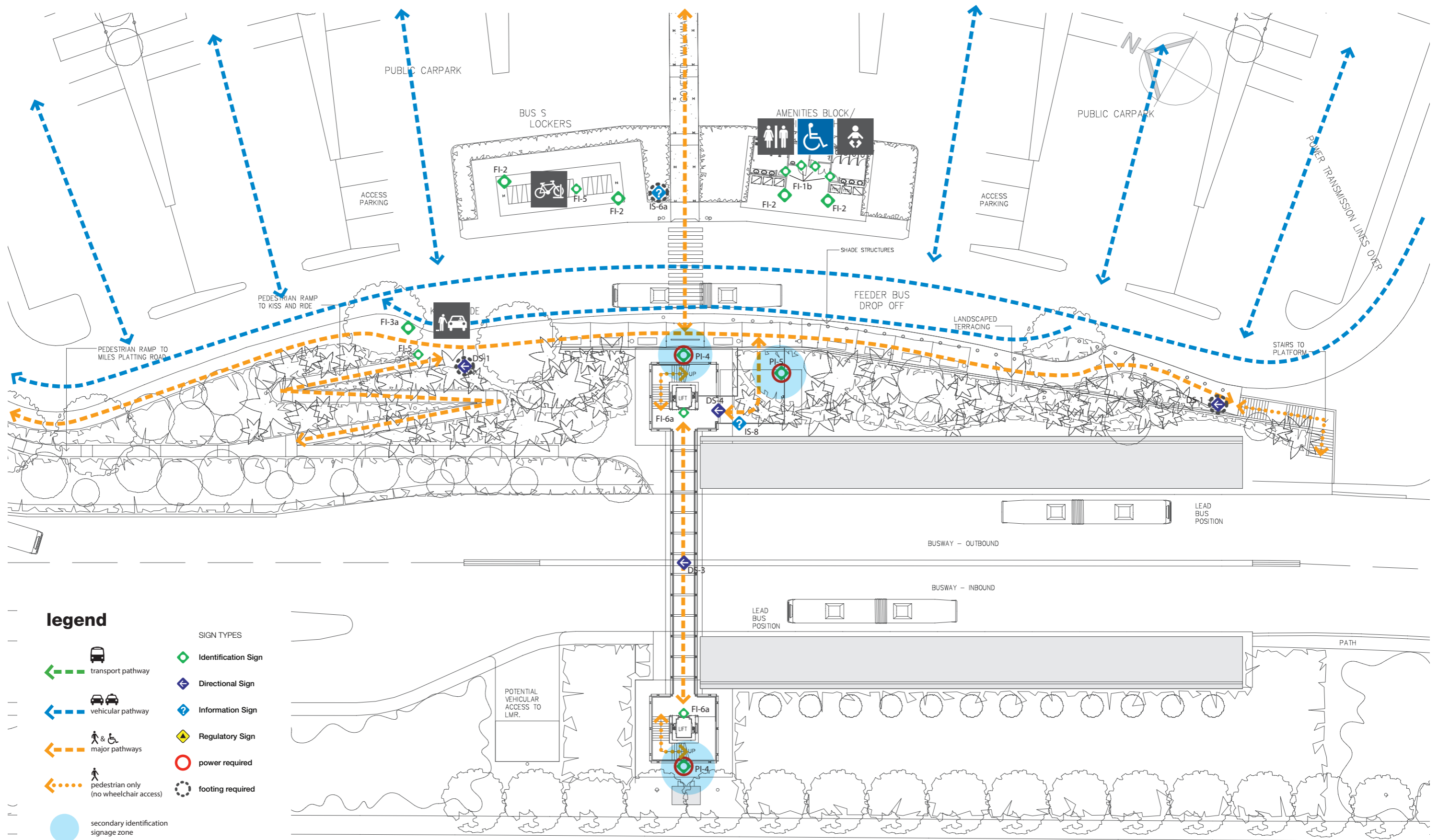
- |   |  |   |                     |
|---|--|---|---------------------|
|  | transport pathway                      |  | Identification Sign |
|  | vehicular pathway                      |  | Directional Sign    |
|  | major pathways                         |  | Information Sign    |
|  | pedestrian only (no wheelchair access) |  | Regulatory Sign     |
|  | main identification signage zone       |  | power required      |
|  | secondary identification signage zone  |  | footing required    |



Typical Sign Location Plan

# Principles for bus network infrastructure signage

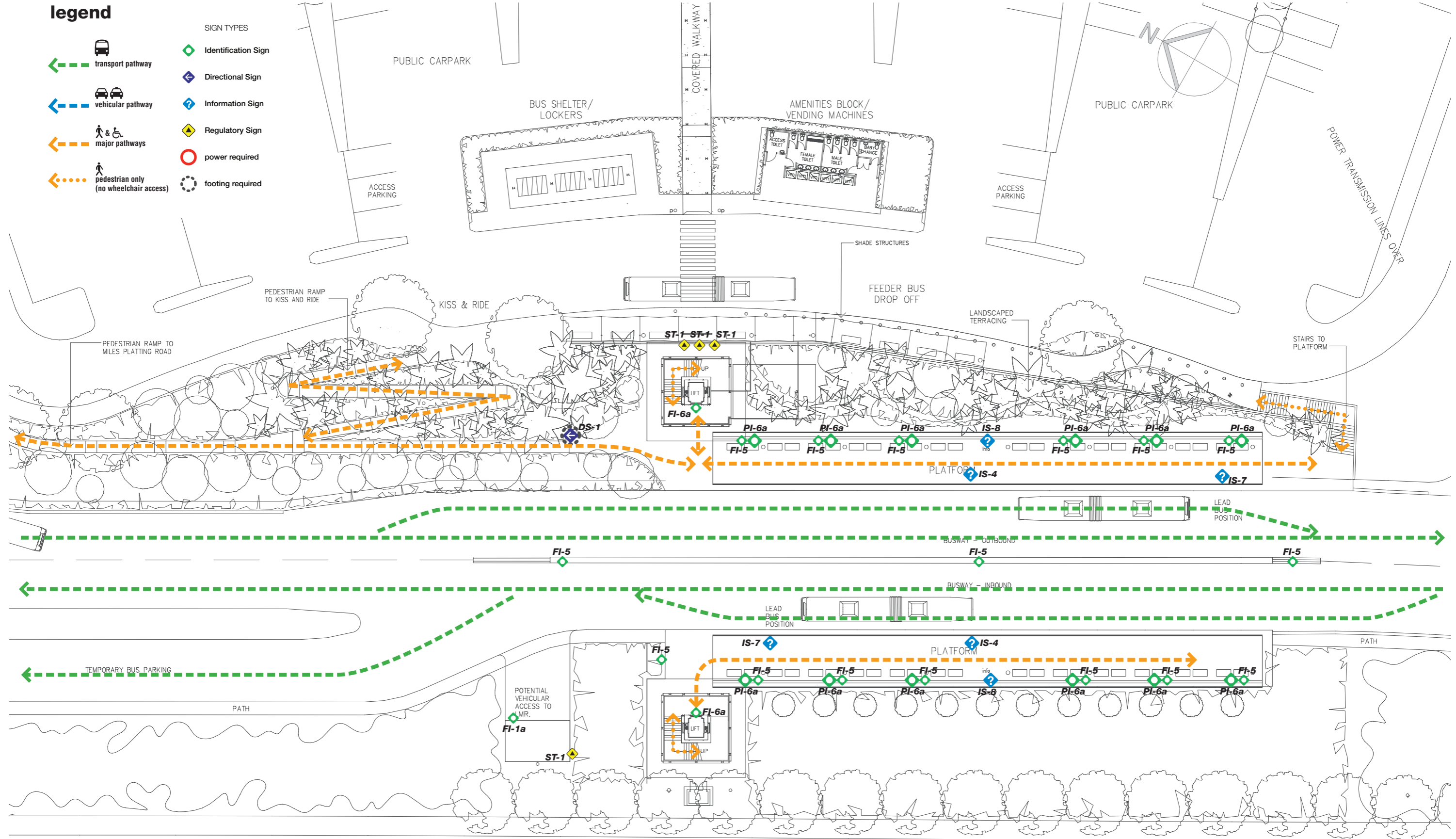
## Busway station concourse (plan 2 of 3)



Typical Sign Location Plan

# Principles for bus network infrastructure signage

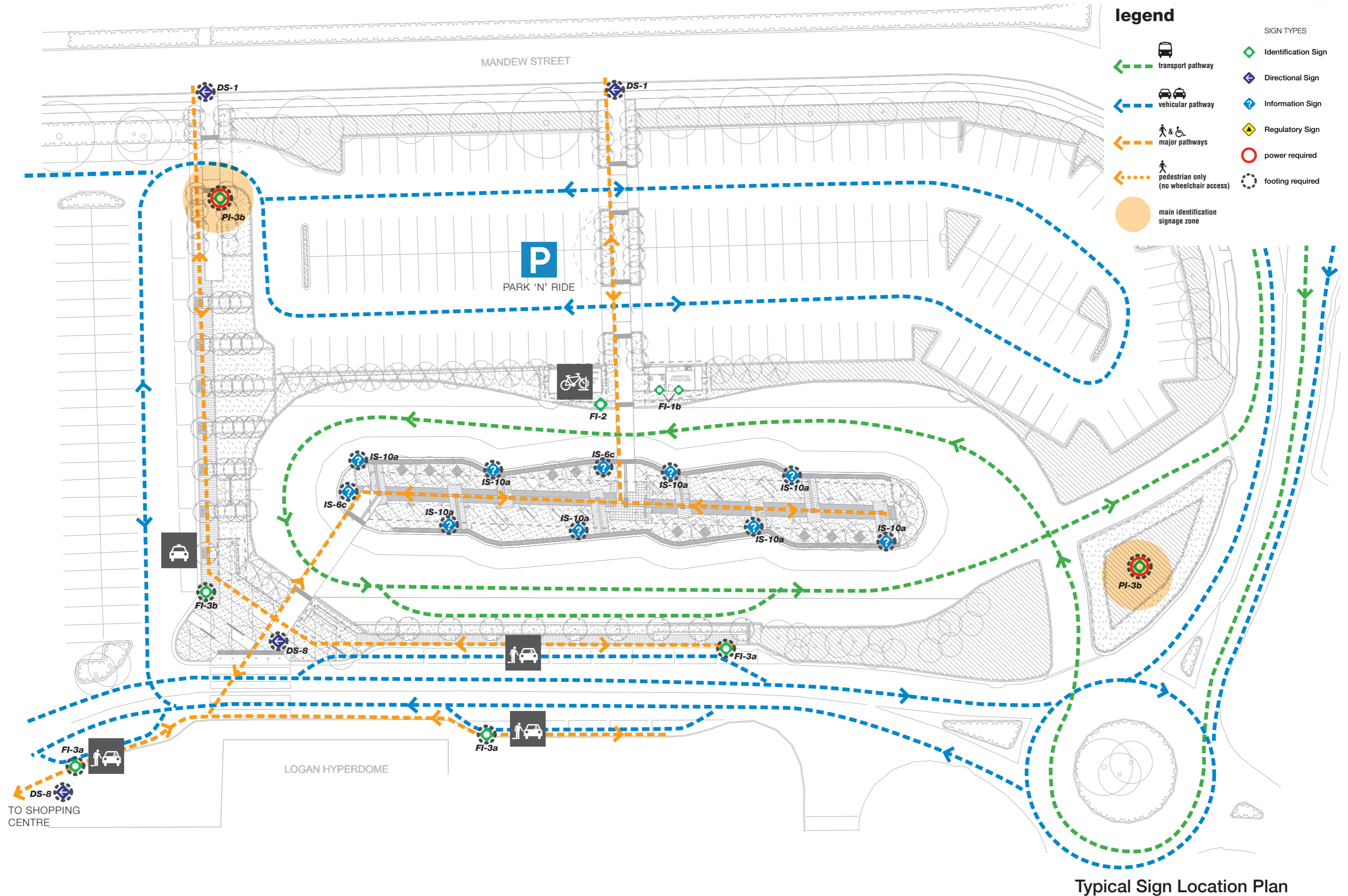
## Busway station platform (plan 3 of 3)



Typical Sign Location Plan

# Principles for bus network infrastructure signage

## Bus station



Typical Sign Location Plan

**Graphic elements**

**Section**





Helvetica Neue 76 Bold Italic

***ABCDEFGHIJKLMNOPQRSTUVWXYZ***  
***abcdefghijklmnopqrstuvwxyz***  
***1234567890***

Helvetica Neue 75 Bold \*

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Helvetica Neue 46 Light Italic

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*abcdefghijklmnopqrstuvwxyz*  
*1234567890*

The font Helvetica as shown below is to be used for all wayfinding messages, including both visual and Braille and tactile wayfinding signs to align with AS1428.4.2(2018), which is considered current best practice to assist orientation and wayfinding for people who are blind or who have low vision.

Other sign type fonts proposed for compliance with specific existing Australian Standards or Codes (such as Arial) may be used but will be subject to endorsement by the relevant authority / asset owner.

\* Note: Use non-italicised font for tactile signs. Ensure minimum 2mm stroke thickness for lettering (max 7 mm). Ensure a minimum of 2 mm space between characters.

|  |  |  |   |
|--|--|--|---|
|    | <b>Orange</b><br>PAINT<br>Resene 'Trinidad' O61-167-048  | VINYL<br>Translucent Background<br>= Arlon Orange 44                                 | Opaque Background<br>= Arlon Bright Orange 83 |
|    | <b>Light Orange</b>  | VINYL<br>Translucent logo<br>= Arlon Tangerine 84                                    | Opaque Logo<br>= Arlon Light Orange 97        |
|    | <b>Grey</b><br>PAINT<br>Resene 'Jon' N38-007-359<br><br>Sign structure shadow lines = Resene 'Jon' N38-007-359 | VINYL<br>Arlon Dark Grey 52  |   |
|    | <b>White</b><br>PAINT<br>Satin White   | VINYL<br>Arlon White 02  |   |
|   | <b>Off White</b><br>PAINT<br>Resene Rice Cake G94-010-092  |  |   |
|  | <b>Black</b><br>PAINT<br>Satin Black   | VINYL<br>Arlon Matt Black 40 or<br>Arlon Black 03 as noted<br>on sign type drawings. |   |
|  | <b>Green</b>   | VINYL<br>Arlon Brilliant Green 106   |   |
|  | <b>Blue (accessible signage)</b><br>PAINT<br>To match AS2700<br>B21 Ultramarine Blue / Pantone 2945            | VINYL<br>Arlon Blue 05   |   |
|  | <b>Red (regulatory signs)</b><br>PAINT<br>To match AS2700 Signal Red /<br>Pantone 032C                         | VINYL<br>Arlon Perfect Match Red 220   |   |
|  | <b>Yellow (regulatory signs)</b><br>PAINT<br>To match Pantone 109  | VINYL<br>Arlon Primrose Yellow 67  |   |

### Generic Standards for TransLink Stations Signage and Wayfinding

The colour selection guide illustrates the identity of TransLink infrastructure in the urban environment in Queensland. The aim of the colour selection guide is to provide the opportunity for design professionals to consider the TransLink identity and station within the wider context built environment around the station location. The following describes the principles of colour selection for TransLink public transport infrastructure facilities.

#### Signage colour strategy

- Resene 'Trinidad' or approved equivalent is used as the primary background colour for signs directing to and identifying public transport. These signs direct to platforms, subway, concourse, bus interchanges/bus stops from one platform to another.
- Resene 'Jon' or approved equivalent is the secondary background colour used for all other messages. These signs will:
  - direct to other facilities away from the station.
  - direct to or identify facilities on platform/concourse/surrounding areas. e.g. help phone, toilet, shops.

#### Signage maintenance

The specific choices made from the colour selection guide must be clearly identified and recorded on a station and stop asset register. Importantly, the background colour for the signage will be based on the primary colour selected for the station. The recording of each station component, and part and the specific material, finish and colour will ensure the station and signage can be easily maintained by the relevant organisation should repair or replacement be required.

The colours illustrated are the standard colours used on all TransLink station infrastructure unless noted otherwise.



Queensland Government logo  
Logo applied to dark background = White  
Logo applied to light background = Black



TransLink logo  
Logo applied to orange background = White  
Logo applied to grey background = White

# Graphic elements

## Pictograms and Arrows

The following pictograms are to be used with all TransLink signage. Contact TransLink for complete pictogram reference.



**Section**

## **Accessible signage guidelines**



## Accessible signage and incorporation into overall design

### Why do we need accessible signage?

Accessible signs are used to assist people with mobility and sensory impairments to negotiate their way from entry points to a station to the boarding points of a platform. They allow people to determine their location, work out paths between parts of the station and identify facilities along the way. While accessible signage must cater for people with all types of disability, it benefits most those who have low vision or who are blind.

### What is accessible signage?

Accessible signs are those that provide people with a disability direction to and from the station and identify the location of its facilities. Sign content is in Braille, raised text, symbols, pictograms and arrows. Signs are located in places and at heights that people with vision impairments, wheelchair users and people with assistance animals (e.g. guide dogs) can easily view and feel them. Refer to current AS 1428.2, AS 1428.4.2 and NCC requirements.

### How are accessible signs located?

The sign designer 'walks' through the station (either virtually or physically) and carefully notes where key directions are needed and where the essential facilities are positioned. Directional signage is located at station entrances, changes of direction and where choices of destinations are required.

Orientation or wayfinding cues are often needed by people who are vision impaired to let them know when they have reached the destination shown on an accessible sign and when they need to look and feel for the next accessible sign. These cues are particularly important on open sections of a platform where there are few structures. Common wayfinding cues include walls, kerbs, TGSIs, and handrails.

Wherever possible, accessible signs should be incorporated into existing general signage. Also the number of static signs can be reduced if audible signs are available on a platform. Audible signs include electronic 'talking signs', lift messages and bus service information location beeps.

The draft accessible signage design should be consulted on, along with other facility accessible way-finding components, by people with disabilities and subject matter experts to ensure components provided are as meaningful and seamless as possible. The design will be inadequate if the users have difficulty in locating and reading each sign and finding their way to essential station facilities.

### Incorporating accessible signage

Significant difficulties occur in the placement of accessible signs if adequate space to access the signs is not included in the architectural and engineering designs of a new or refurbished bus facility. Areas that need particular consideration are:

- station entrances
- approaches to stairs, ramps and lifts
- lift entrances
- assisted boarding points
- at or around station fixtures such as Help Phone/Service Information console, fare machines, priority seating and electronic ticketing equipment.
- where directions are needed from stairs, ramps and lifts to the assisted boarding point
- where directions are needed from stairs, ramps and lifts to a station exit and accessible car parking bays
- where directions are needed from a station exit to other modes.

There are a number of design elements that restrict the space needed by people in wheelchairs and people with a vision impairment to read accessible signs. They include station entrances less than 2m wide; placing columns, light masts, drinking fountains, rubbish bins and seats at major decision points; clearance to overhead obstructions less than 2m; installing station equipment within high passenger traffic areas; locating assisted boarding points adjacent to stairs; installing lifts that exit within 2.5m of an obstruction; installing doors that cover signs when opened; and placing controls less than 500mm from corners.

Station design should also include structural features that provide fixing points for accessible signs. Columns, posts, walls and fences can be sized so that they are wide enough to attach Braille and tactile signs. Ceiling and soffit heights should be in a height range that permits suspended signs within the viewing zone of people in wheelchairs. The design of station floor surfaces where accessible signs are to be located should comply with the gradients, cross falls and slip resistance required under the current AS 1428.1 and the NCC.

Lighting should be designed so that people with low vision can easily read the text of accessible signs without glare. A minimum of 30% luminance contrast is required at all times for walls, columns, poles and equipment pedestals that are used as a fixing background for accessible Braille signs. Suitable colours are those that have an obvious contrast with Ultramarine Blue, Resene Jon and Trinidad.

### Viewing Distances

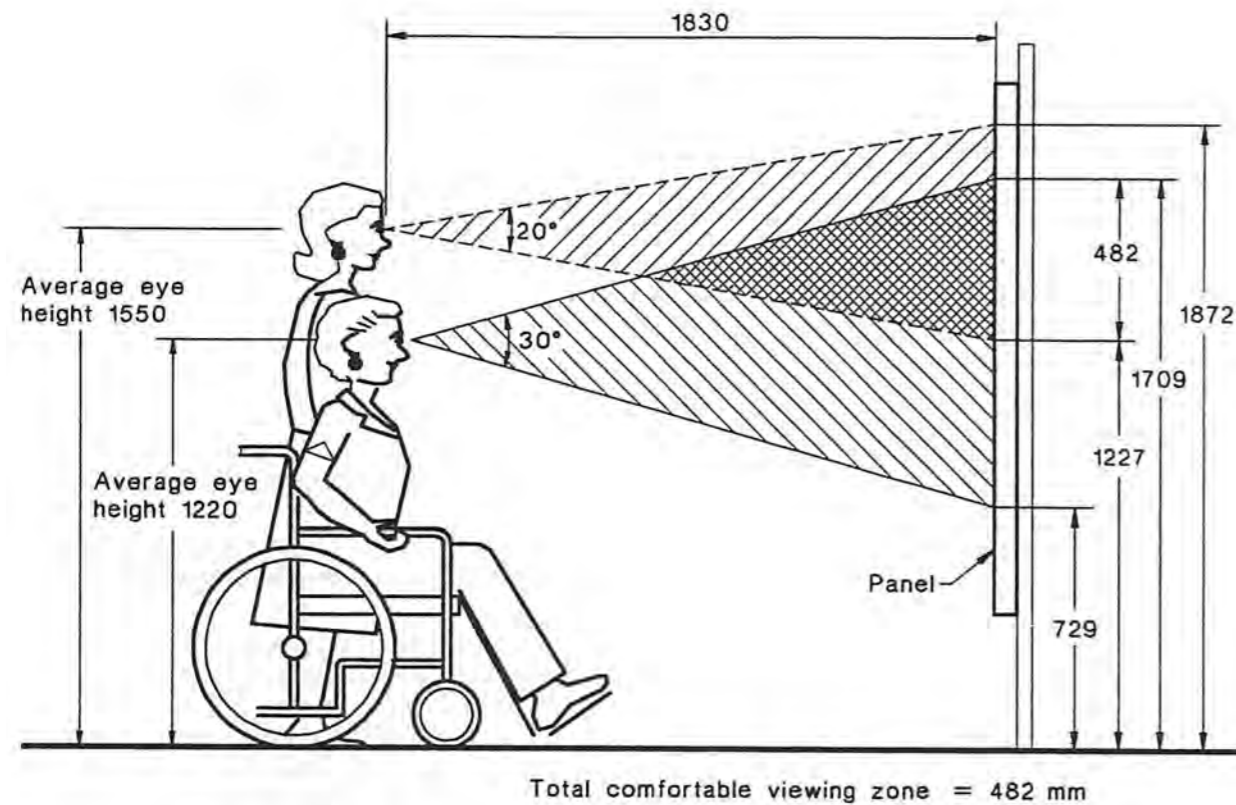
Figure 30 is an extract from AS1428.2 and provides data to calculate sign height and viewing distance. It identifies common zones for viewing and reading signs by a person in a wheelchair or an able bodied person.

Table 2 provides a reference to calculate text heights to suit viewing distances.

Text and Pictogram signs should be located with reference to common viewing zones and placed within a zone at a height not less than 1400mm and not more than 1600mm above the plane of the finished floor.

Where space in this zone is not available, the zone for placement of signs may be extended downward to not less than 1000mm.

Where a sign can be temporarily obscured e.g. in a crowd, the sign should be placed at a height of not less than 2000mm above the plane of the finished floor (AS1428.2).



Source: National Endowment for the Arts, Needs Assessment Survey Instrument, produced by National Access Centre, USA

DIMENSIONS IN MILLIMETRES

FIGURE 30 ZONES FOR VIEWING AND FOR COMMON VIEWING

Height of lettering for varying viewing distances

| viewing distance | x height |
|------------------|----------|
| 2m               | 6mm      |
| 4m               | 12mm     |
| 6m               | 20mm     |
| 8m               | 25mm     |
| 12m              | 40mm     |
| 15m              | 50mm     |
| 25m              | 80mm     |
| 35m              | 100mm    |
| 40m              | 130mm    |
| 50m              | 150mm    |

Table 2  
Extracted from AS1428.2

### Circulation requirements for people using wheelchairs (text and pictograms)

A three dimensional space is required for a person in a wheelchair to approach a sign, read the information then move their wheelchair away. The 3D dimensions are comprised of:

- The unobstructed viewing to a sign (refer to 3.2 Viewing Distances).
- The height of the sign. (requirements are provided in AS1428.2)
- The circulation space needed to enter and leave the viewing area where the sign is located. Refer to AS 1428.2 for circulation requirements.
- Minimum height below overhead obstructions or where a sign can be temporarily obscured (2000mm as provided in AS 1428.2))

The 3D solution involves determining the signs location in relation to an access path and then overlaying the four requirements listed above. As shown, three examples of measurement solutions are:

#### (a) Overhead sign

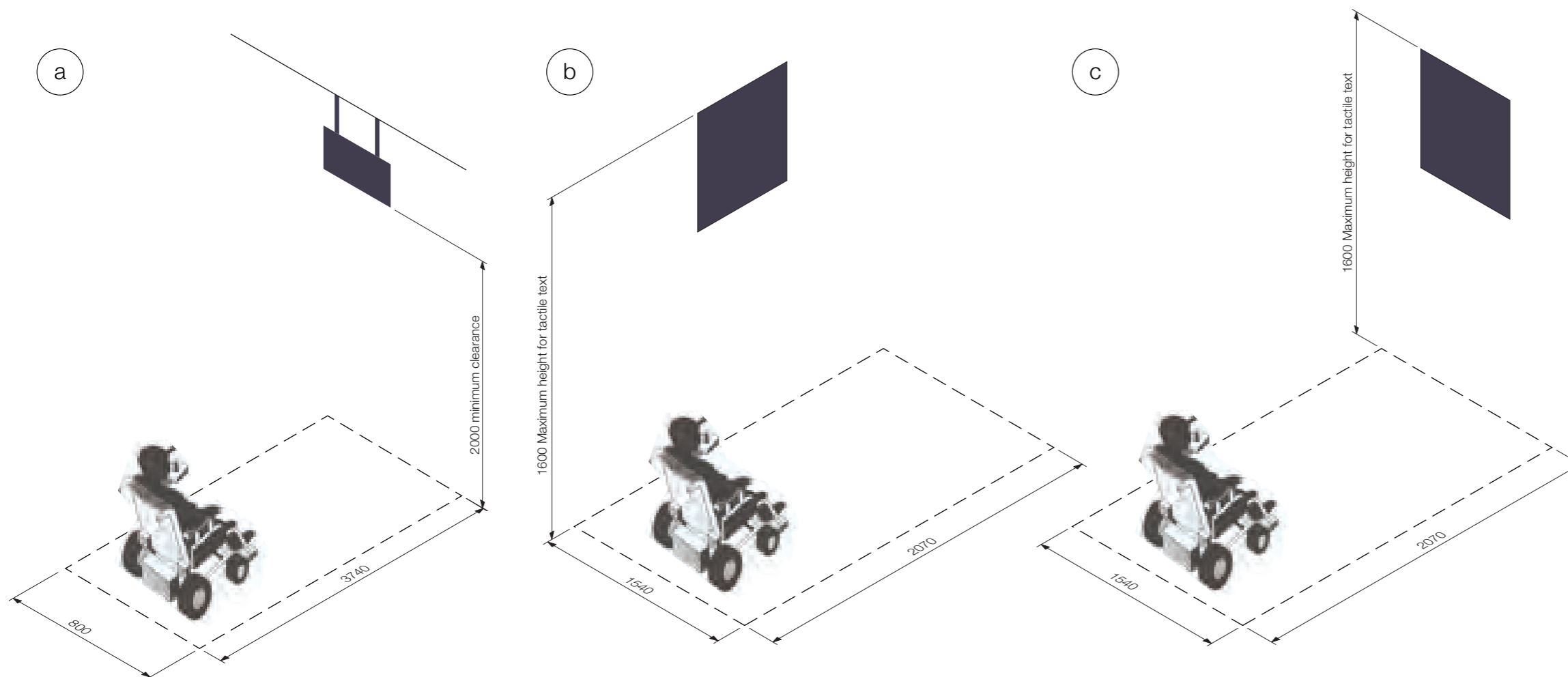
The sign is suspended directly in front of the person on the access path. The minimum measurements required are 3740mm viewing distance x 800mm width x 2000mm height as provided in AS 1428.2. Note: TransLink minimum height from finished floor level to underside of sign is 2300mm. Preferred height 2500mm.

#### (b) Wall mounted sign located parallel to circulation

The sign is located at right angles to the person along the access path. The person will need to do a 90° wheelchair turn towards the sign, off the path of travel and then back again. The minimum measurements required are 2070mm in the direction of travel x 1540mm width. (AS 1428.2)

#### (c) Wall mounted sign located perpendicular to circulation

In this case the sign is the person's destination or is a point of interest, for example, a timetable information board. The person will need to move forward to read the sign then turn around 90 – 180° to move along a path of travel. The minimum measurements required are 2070mm viewing distance x 1540mm width. (AS 1428.2)





Space required to access signs - people with low vision

**Requirements of people with low vision (Braille and tactile signs)**

Braille and raised text signs should be located with reference to 'useability' in addition to viewing distances for people who are sighted or have low vision. A person who is blind or has low vision will read Braille or raised text through touch and feeling which requires signage to be within easy reach and at a suitable height.

The 3D space required for a person using a white cane or guide dog to use a Braille and tactile sign is comprised of:

- The length of the person and their guide dog (800mm)
- The reach range from the person's body to the sign (250mm)
- Width of the person with their guide dog at their side (800mm)
- Height of the sign (refer to AS1428.2)
- Minimum height below overhead obstructions (2000mm).

The 3D solution to approaching and feeling a sign involves overlaying these pieces of data.

Assuming there are no overhead obstructions the dimensions required to use a Braille and tactile sign are 1050mm long (800mm + 250mm) x 800mm wide x 1600mm maximum height.

*Note: Signs with single lines of characters must have the line of tactile characters not less than 1250mm and not higher than 1350mm above finished floor level. Where more than a single line is used Braille and tactile components must be located not less than 1200mm and not higher than 1600mm above finished floor level.*



**Sign types**

**Section**



# Sign Types

## Directional signs

4.1.1

Sign Type

### DS-1

#### Directional Sign - Pole Mount

**Purpose**

- To direct to general public destinations or station facilities and platforms
- For pedestrian use

**Typical location**

- Located at minor decision points generally outside the platform environment
- Located on either TransLink or Other's property depending on site constraints
- Sign to be oriented typically with the sign face perpendicular to the main path of travel
- Sign to be located outside required pedestrian paths of travel.
- Proximity of sign locations to suit site specific requirements

**Indicative message**

- Station
- Accessible pathways
- Community facilities (eg. pool)
- Shops
- Taxi rank
- Kiss 'n' ride

**Graphics Detail**

FONT  
 Station name = Helvetica Neue 66 Medium Italic  
 Other text = Helvetica Neue 65 Medium

SIZE  
 Major Text = 40mm cap X height  
 Support Text = 25mm cap X height  
 Platform Support Text = 23mm cap X height  
 'To...' = 26mm cap X height  
 Arrow = 130mm high  
 Pictogram large = 130mm high  
 Pictogram small = 80mm high

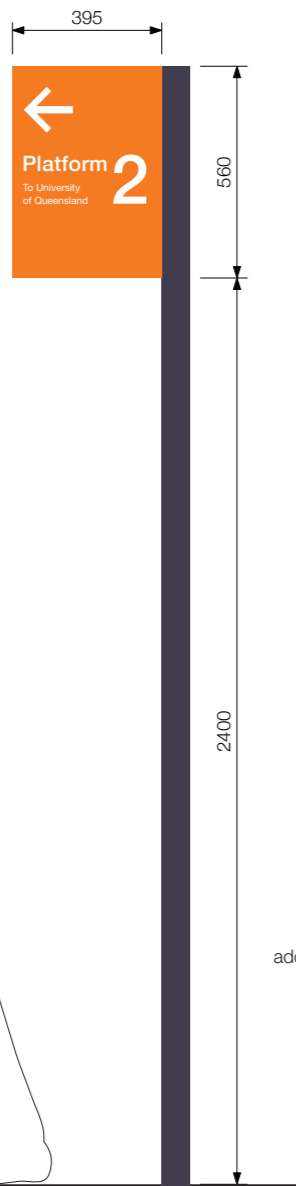
COLOUR  
 Post = Resene 'Jon' N38-007-359  
 Transport panel = Resene 'Trinidad' O61-167-048  
 Other panel = Resene 'Jon' N38-007-359  
 Divider line = white  
 Arrow = white  
 Bus pictogram = white  
 Access pictogram = white figure on AS2700 B21 Ultramarine blue background  
 Text = white



Note typical alignment of text, platform number and justification to arrow

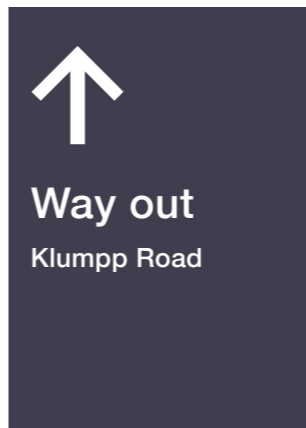
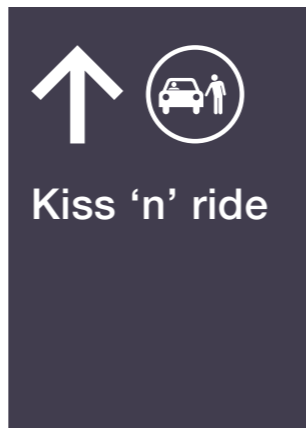
Platform Device - Reference

Scale 1:5

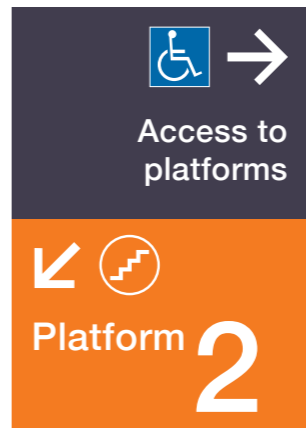


Typical Location

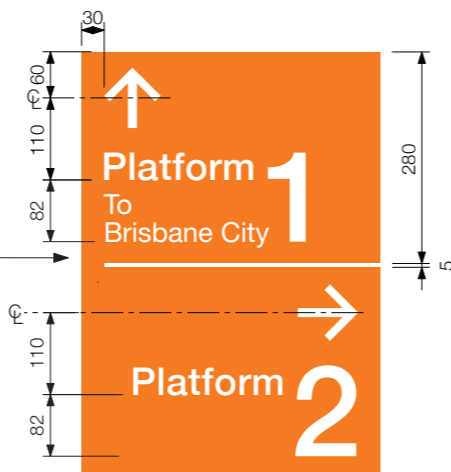
Scale 1:20



30mm text



Destination may be added to sign based on station requirements



Typical Graphic Layouts

Scale 1:10



\*Modified platform device layout to suit prominent destination



30mm text

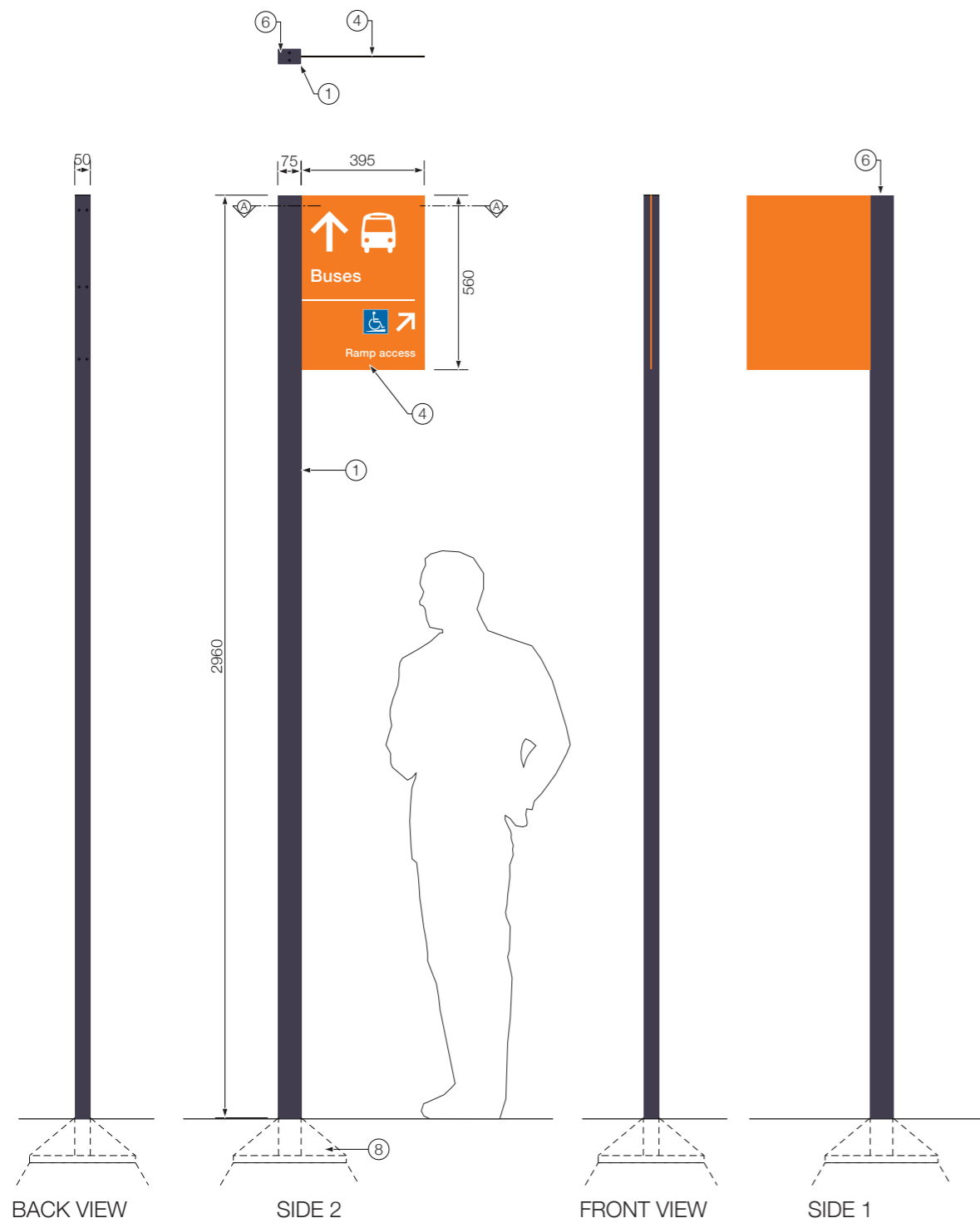
Sign Type

### DS-1

#### Directional Sign - Pole Mount

##### Construction Details

1. 75 x 50 x 4mm RHS galvanised steel pole. Base plate and gussets welded to end.
2. 18 x 18 x 4mm galvanised steel tabs welded to inside of pole. 2 off M6 nuts welded to tabs.
3. Cut out slot allowing 5mm sign panel to slide into pole. (Clearance fit)
4. 5mm thick aluminium sign panel. 557 x 50 x 5mm fixing plate welded to one edge. Front applied vinyl graphics with clear anti-graffiti spray coat over.
5. M6 stainless steel (316) phillip head self tapping c'sunk screw fixings through post into fixing plate
6. 2mm thick galvanised steel capping to top of post.
7. M6 stainless steel (316) phillip head self tapping c'sunk screw, fixes capping to tabs.
8. Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.



##### Elevations

Scale 1:20



##### Section A-A

Scale 1:2

# Sign Types

## Directional signs

4.2.1

Sign Type

### DS-2

#### Directional Sign - Under Awning

**Purpose**

- To direct to platforms and facilities
- For pedestrian use

**Typical location**

- Located at decision points within the station property boundaries
- Fixed to underside of awning structure
- Typically used for single destinations
- The underside of the sign shall be a minimum of 2300mm above floor level. Preferred 2500mm above finished floor level.
- Sign to be oriented typically with the sign face perpendicular to the main path of travel

**Indicative message**

- Platform
- Accessible pathways
- Community facilities (eg. pool)
- Shops

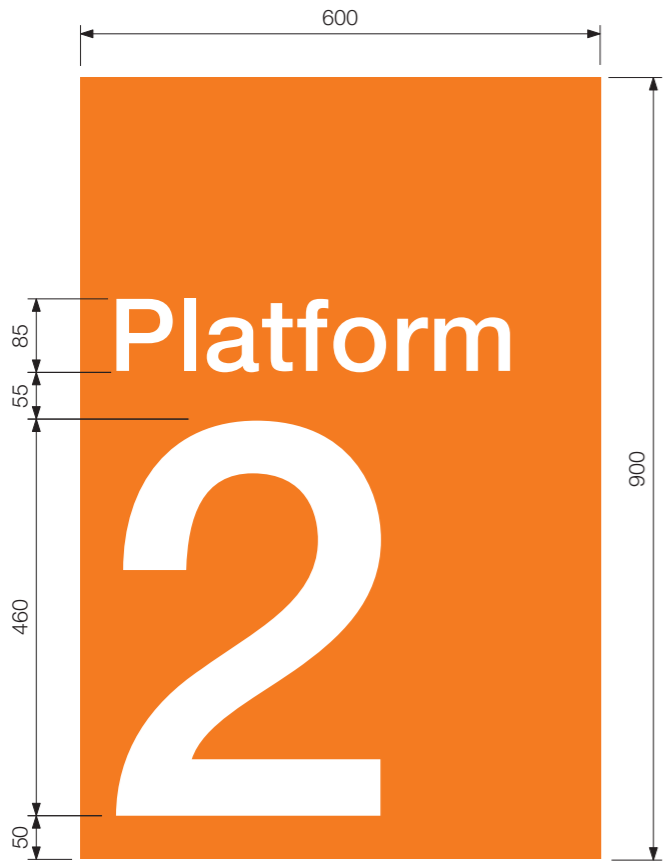
**Graphics Detail**

**FONT**  
 'To...' = Helvetica Neue 55 Roman  
 All other text = Helvetica Neue 65 Medium

**SIZE**  
 'Platform' = 45mm cap X height  
 'Kiss 'n' ride' = 45mm cap X height  
 Platform number = 150mm cap X height  
 'To...' = 33mm cap X height  
 Arrow = 100mm high  
 Pictogram = 100mm x 100mm

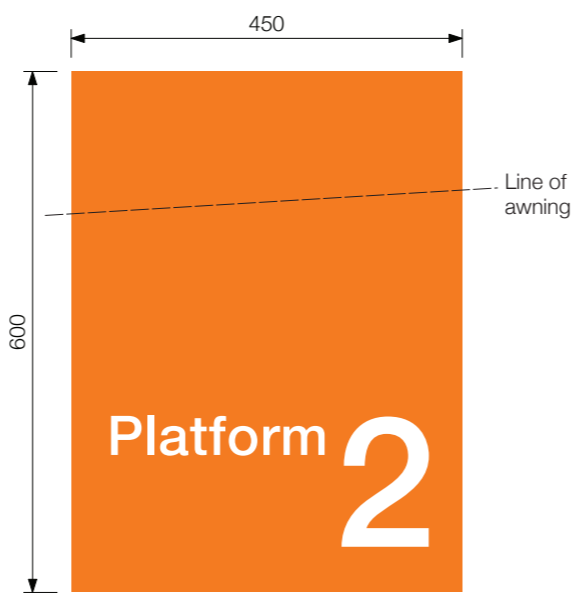
**Large Scale Option**  
 'Platform' = 85 mm cap X height  
 Platform number = 457mm cap X height

**COLOUR**  
 Transport panel = Resene 'Trinidad' O61-167-048  
 Other panels = Resene 'Jon' N38-007-359  
 Arrow = Arlon White 02  
 Text = Arlon White 02

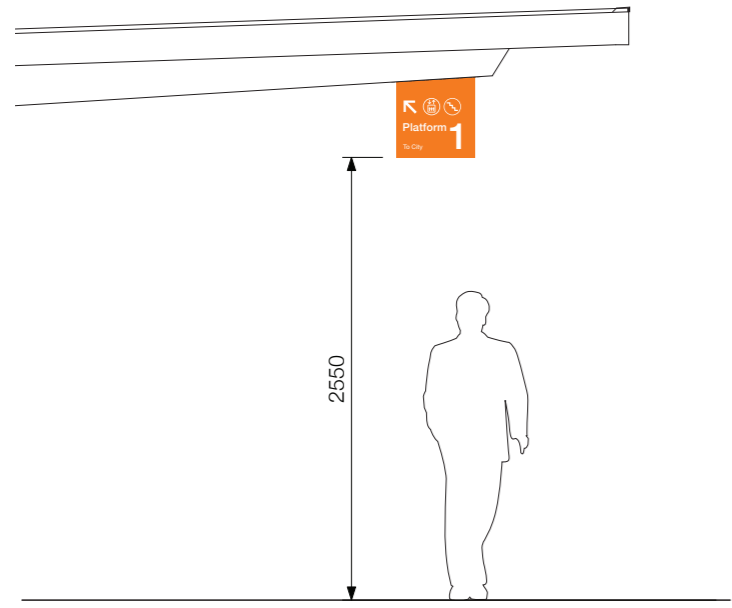
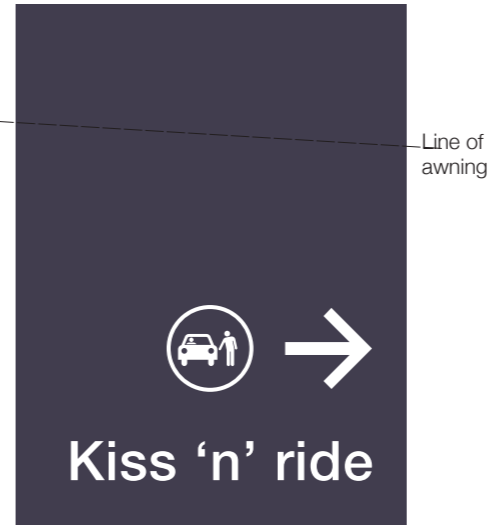


Graphic Layout – Large scale option

Scale 1:10



Opposite side to directional message



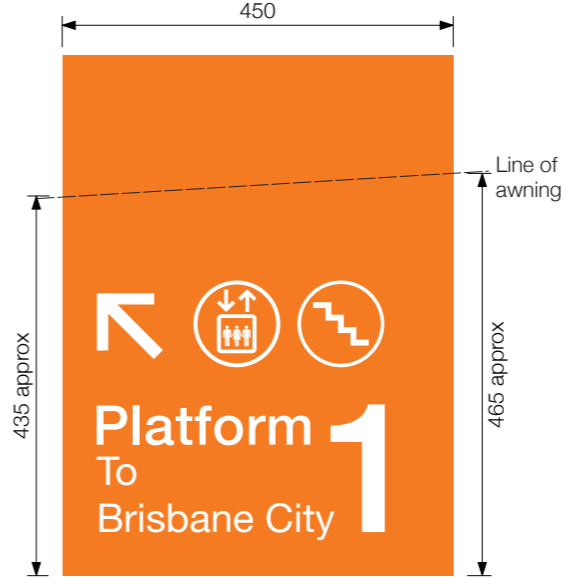
Typical Location

Scale 1:50



Typical Graphic Layouts

Scale 1:10

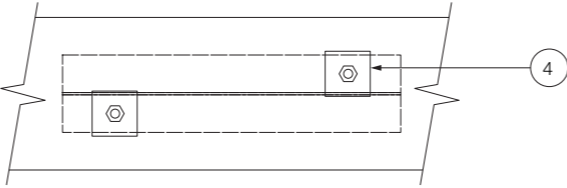


Sign Type  
**DS-2**  
Directional Sign - Under Awning

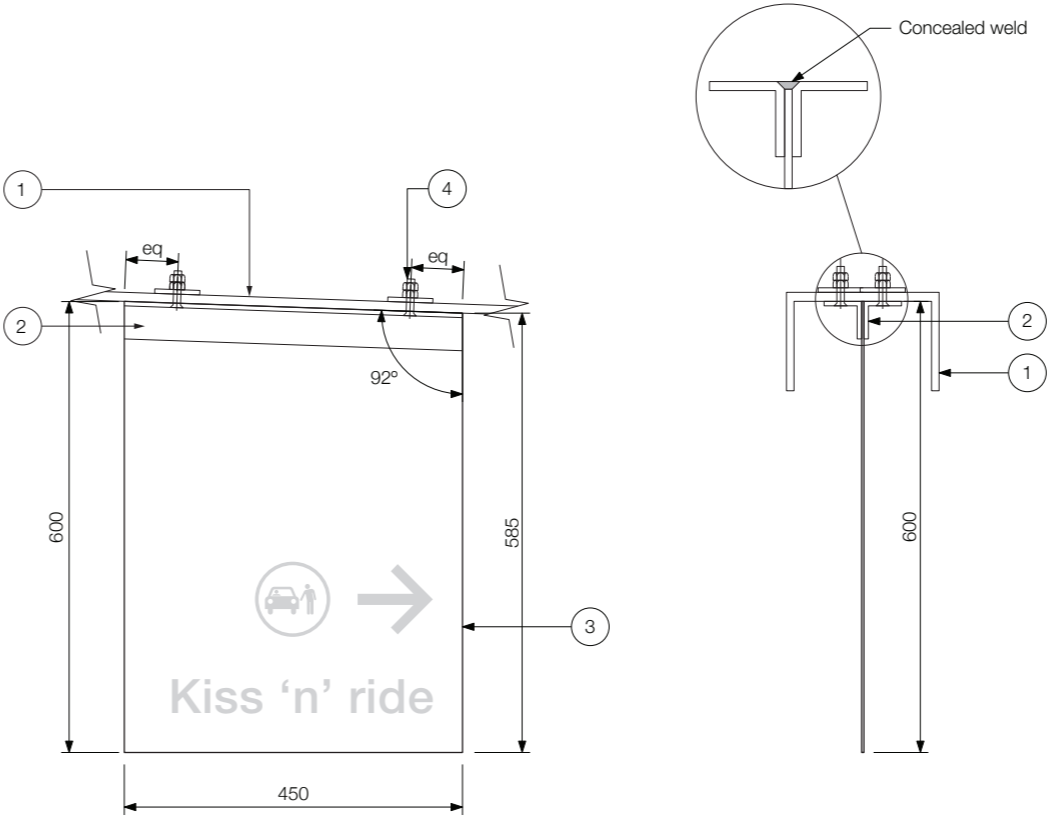
- Construction Details**
1. Station shelter beam.
  2. 50 x 50 x 6mm aluminium angle.
  3. 5mm thick aluminium panel, concealed bead welded to aluminium angle. Welds to be dressed, regular and spaced evenly. Front applied vinyl graphics with clear anti-graffiti spray coat over.

**FIXING METHOD**

4. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.



TOP VIEW



FRONT VIEW

SIDE VIEW

**Elevations**  
Scale 1:10

Sign Type

**DS-3**

**Minor Directional Sign - Suspended**

**Purpose**

- To direct to platforms and facilities
- For pedestrian use

**Typical location**

- Typically located on pedestrian overpass between platforms
- Fixed to underside of awning structure
- Typically used for single destinations
- The underside of the sign shall be a minimum of 2300mm above floor level. Preferred 2500mm above finished floor level.
- Sign to be oriented typically with the sign face perpendicular to the main path of travel

**Indicative message**

- Platform
- Accessible pathways
- Community facilities (eg. pool)
- Shops

**Graphics Detail**

**FONT**

'To...' = Helvetica Neue 55 Roman

All other messages = Helvetica Neue 65 Medium

**SIZE**

'Platform' = 60mm cap X height

Platform number = 195mm cap X height

'To City' = 45mm cap X height

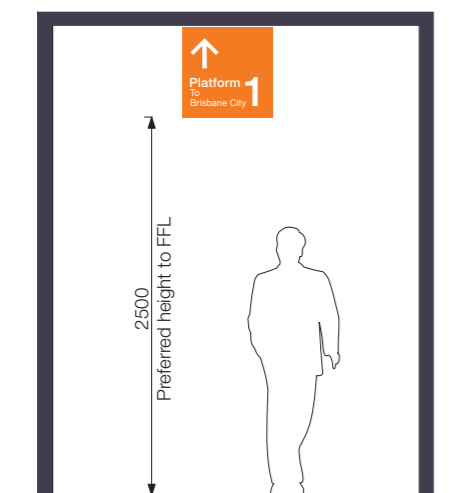
Arrow = 200mm high

**COLOUR**

Panel = Resene 'Trinidad' O61-167-048

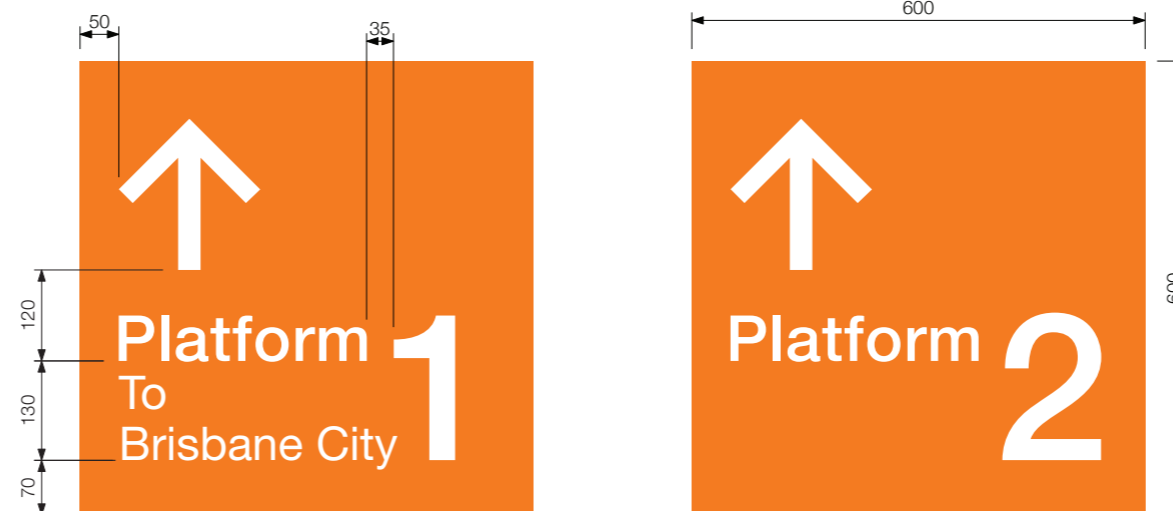
Arrow = Arlon White 02

Text = Arlon White 02



**Typical Location**

Scale 1:50



**Typical Graphic Layout**

Scale 1:10

Sign Type

**DS-3**

**Minor Directional Sign - Suspended**

**Construction Details**

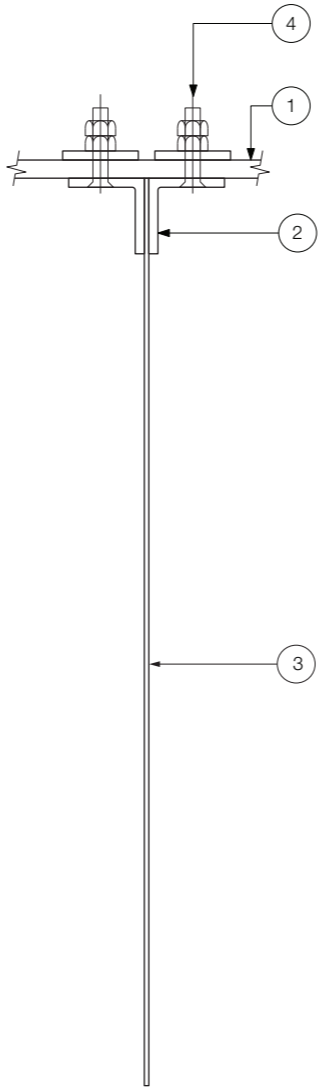
- 1. Station structure.
- 2. 50 x 50 x 6mm aluminium angle.
- 3. 5mm thick aluminium panel, concealed bead welded to aluminium angle. Welds to be dressed, regular and spaced evenly. Front applied vinyl graphics with clear anti-graffiti spray coat over.

**FIXING METHOD**

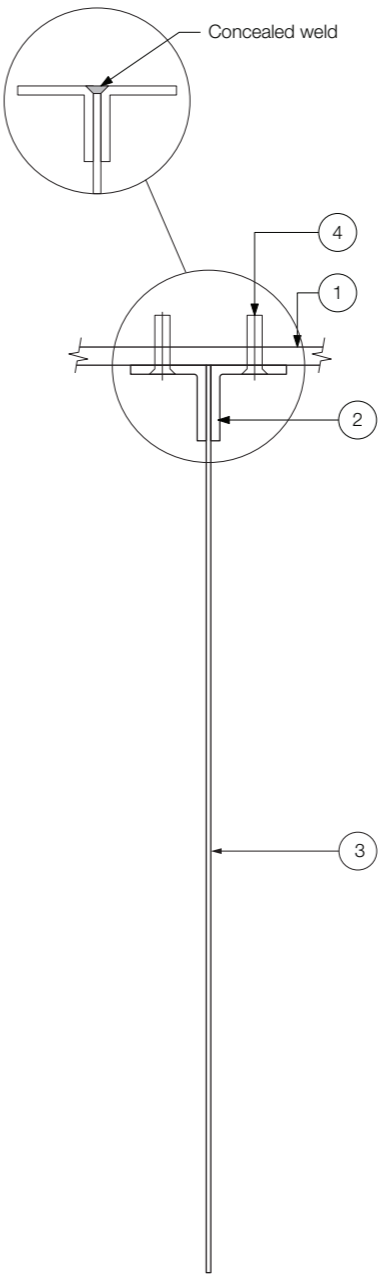
- 4. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.



**Front Elevation**  
Scale 1:5



**Side Elevation**  
Scale 1:5



**Optional Fixing Method**  
Scale 1:5



# Sign Types

## Directional signs

4.4.1

Sign Type

### DS-4

#### Major Directional Sign - Suspended

**Purpose**

- To direct to platforms and facilities
- For pedestrian use

**Typical location**

- At decision points
- Suspended sign
- Located at decision points within the station property boundaries.
- Fixed to the underside of ceilings / structure.
- Where signs suspend from walls or ceilings, the underside of the sign shall be a minimum of 2300mm above floor level. Preferred 2500mm above finished floor level.
- Sign to be oriented typically with the sign face perpendicular to the main path of travel.

**Indicative message**

- Platform
- Accessible pathways
- Community facilities (eg. pool)
- Shops

**Graphics Detail**

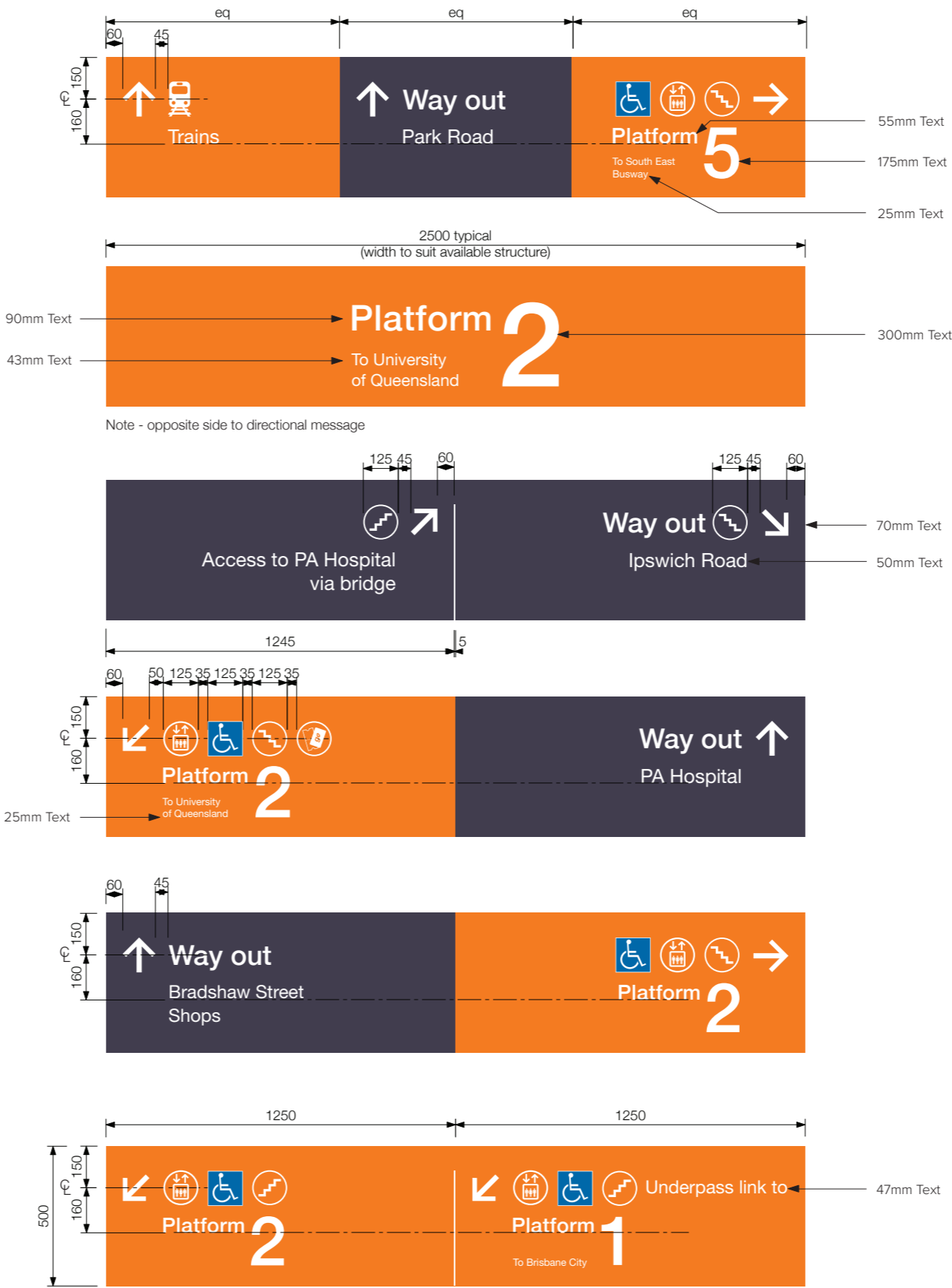
**FONT**  
 'To...' = Helvetica Neue 55 Roman  
 Sub-message = Helvetica Neue 55 Roman  
 All other text = Helvetica Neue 65 Medium

**SIZE**

Arrow = 125mm high  
 Pictogram = 125mm x 125mm  
 Other elements = As noted

**COLOUR**

Transport panel = Resene 'Trinidad' O61-167-048  
 Other panel = Resene 'Jon' N38-007-359  
 Arrow = Arlon White 02  
 Text = Arlon White 02  
 Pictogram = Arlon White 02



**Typical Location**  
 Scale 1:100

**Typical Graphic Layouts**  
 Scale 1:20

Sign Type

**DS-4**

**Major Directional Sign - Suspended**

**Construction Details**

1. Station structure.
2. 50 x 50 x 6mm aluminium angle bead welded to aluminium sign panel. All visible welds to be dressed, regular and evenly spaced.
3. 5mm thick aluminium sign panel. Front applied vinyl graphics with clear anti-graffiti spray coat over.

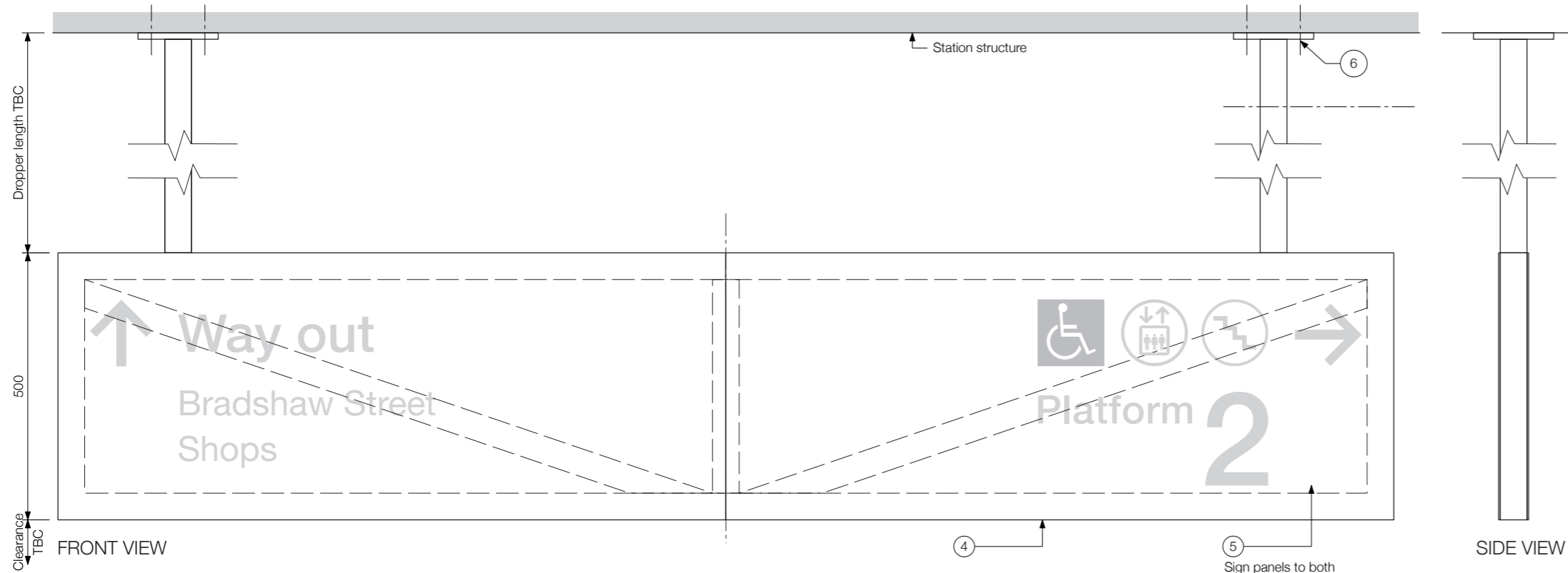
**SUSPENDED FRAME**

4. 50 x 50 x 6mm aluminium SHS internal frame. Suitable support plate welded to internal frame. All visible welds to be dressed, regular and evenly spaced.

5. 3mm thick aluminium sign face to both sides. Front applied vinyl graphics with clear anti-graffiti spray coat over. Conceal fix panels to sign frame.

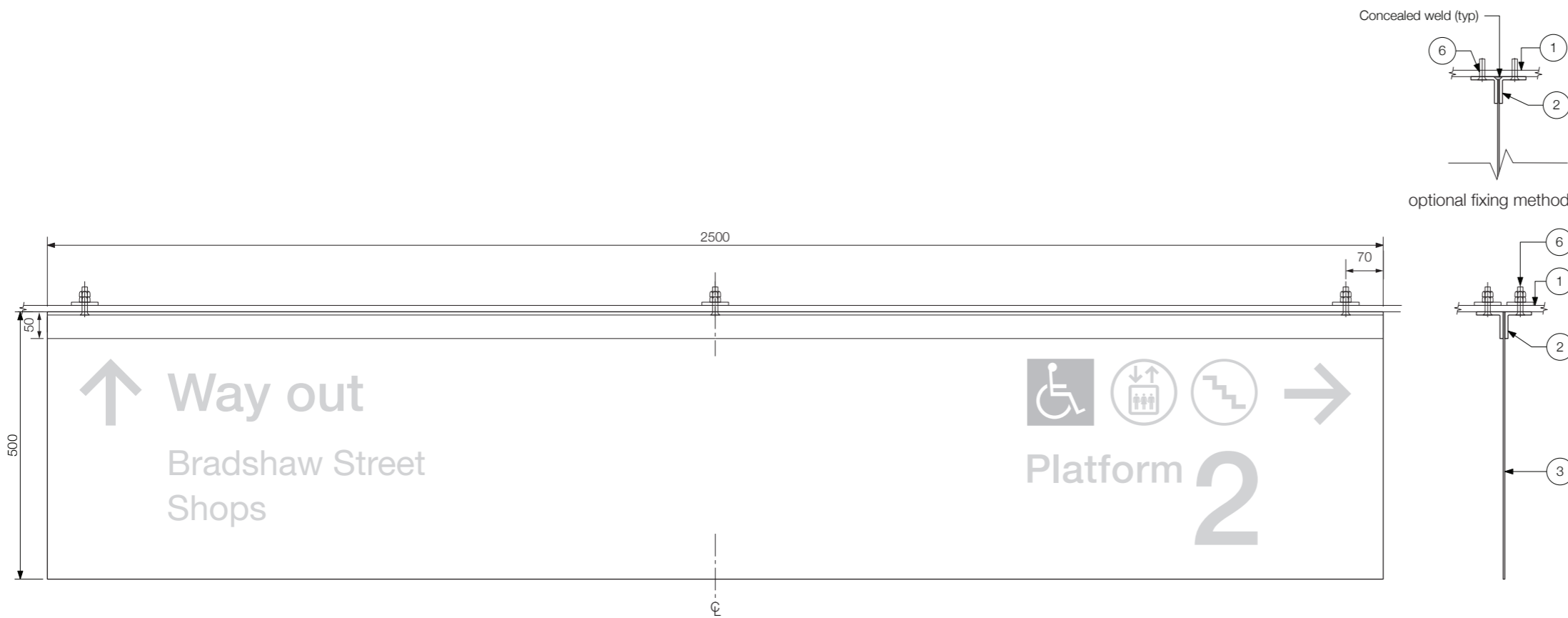
**FIXING METHOD**

6. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.



**Suspended Frame**

Scale 1:10



**Front View**

Scale 1:10

**Side View**

Scale 1:10

# Sign Types

## Directional signs

Sign Type  
**DS-4a**  
**Illuminated Directional Sign**

**Purpose**  
 - To direct to platforms and facilities  
 - For pedestrian use

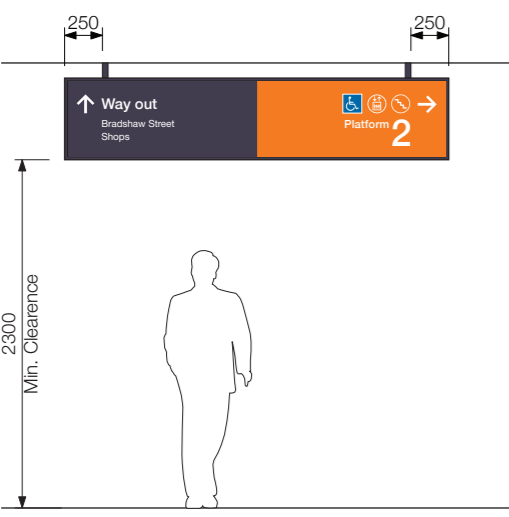
**Typical location**  
 - At decision points  
 - Suspended sign (double sided)  
 - Wall mounted (single sided)  
 - Located at decision points within the station property boundaries.  
 - Fixed to the underside of ceilings / structure.  
 - Where signs suspend from walls or ceilings, the underside of the sign shall be a minimum of 2300mm above floor level. Preferred 2500mm above finished floor level.  
 - Sign to be oriented typically with the sign face perpendicular to the main path of travel.

**Indicative message**  
 - Platform  
 - Accessible pathways  
 - Community facilities (eg. pool)  
 - Shops

**Graphics Detail**  
**FONT**  
 Sub message ('Roma Street') = Helvetica Neue 55 Roman  
 All other text = Helvetica Neue 65 Medium

**SIZE**  
 Arrow = 125mm high  
 Pictogram = 125mm x 125mm  
 Other elements = As noted

**COLOUR**  
 Transport background = Arlon Orange 44 translucent vinyl  
 Lightbox = Resene 'Jon' N38-007-359  
 Arrow = White for illumination  
 Text = White for illumination  
 Pictogram = White for illumination



**Typical Location**  
 Scale 1:50

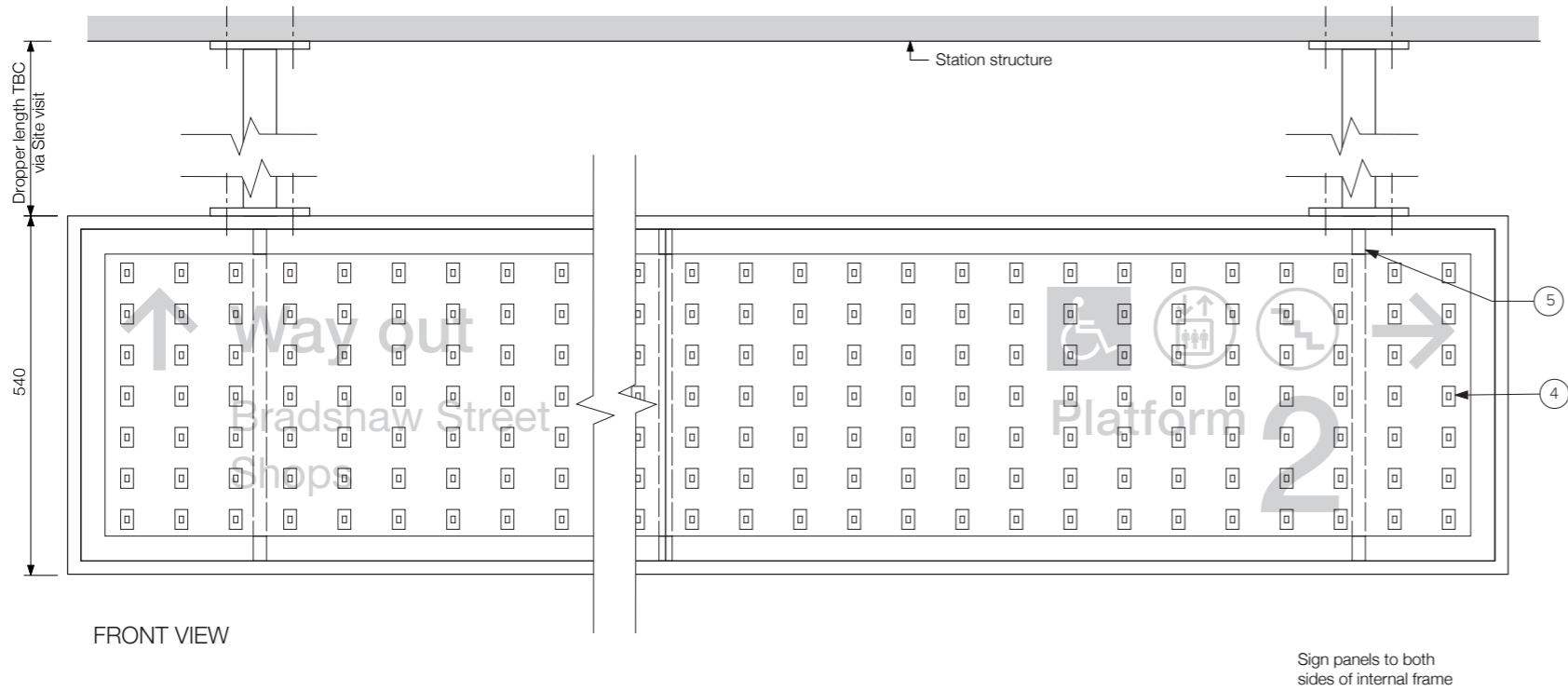
**Typical Graphic Layouts**  
 Scale 1:20

# Sign Types

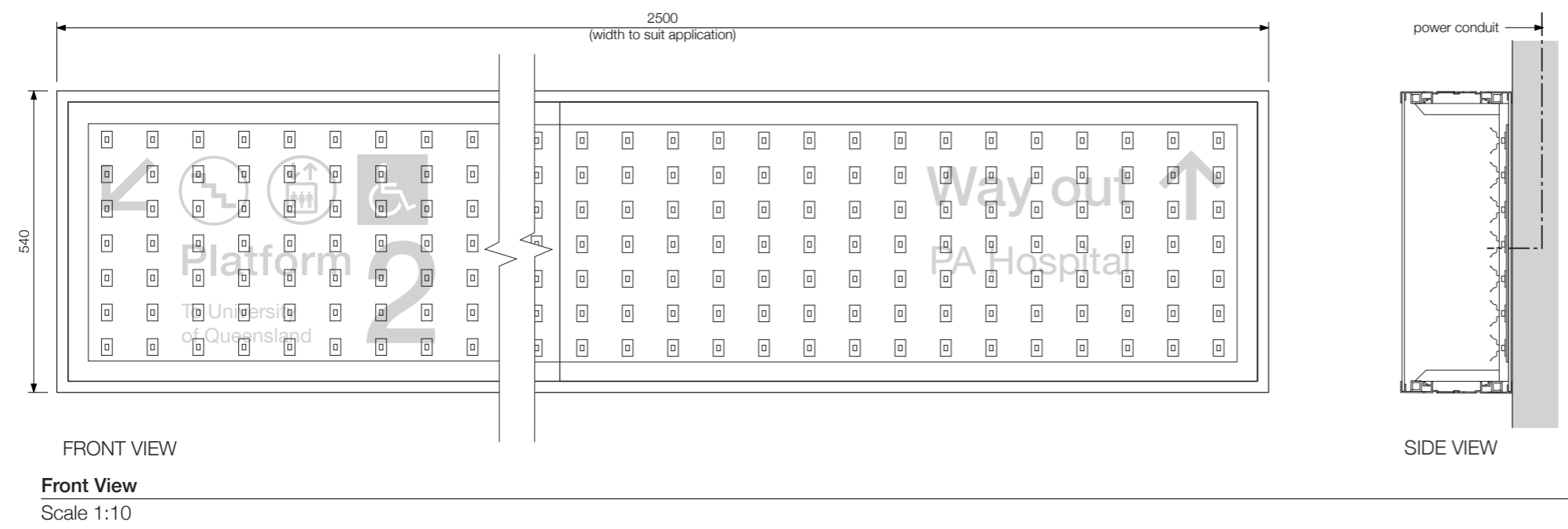
## Directional signs

Sign Type  
**DS-4a**  
**Illuminated Directional Sign**

- Construction Details**
1. Station structure. Sign maker to visit site to confirm fixing requirements prior to manufacture.
  2. 200mm deep aluminium sign box extrusion with internal support frame to suit suspended or wall mounted application. Ensure side of sign is removable to permit installation and maintenance.
  3. 4.5mm thick clear polycarbonate sign face with reverse applied vinyl graphics. Backspray white to suit internal illumination.
  4. Internally illuminated by LED backlight modules mounted to backing panel. LED layout indicative only. Signmaker to provide control gear. Sign to be illuminated during all hours of station operation. Refer to specification for LED requirements.
  5. 20 x 20 x 3mm SHS aluminium light supports welded to frame. Power conduit to be contained within SHS dropper (suspended) or through back of sign box (wall mounted).
- FIXING METHOD**
6. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.



**Suspended Frame**  
 Scale 1:10



Sign Type  
**DS-6a**  
**Directional Sign - Braille & Tactile Wall Mounted**

**Purpose**  
 - To direct to platforms and facilities  
 - For pedestrian use

**Typical location**  
 - At decision points  
 - Wall mounted sign  
 - Located at entry and decision points within the station property boundaries  
 - Refer to sign placement note

**Indicative message**  
 - Platform number  
 - Facility  
 - Way out  
 - Braille message

**Graphics Detail**  
**FONT**  
 All text = Helvetica Neue 65 Medium

**SIZE**  
 Station name = 45mm cap X height  
 All other text = 20mm cap X height  
 Arrow = 32mm high (tip to tail)  
 Pictogram = 55mm high

NOTE - Messages have 50% tracking (letter spacing)

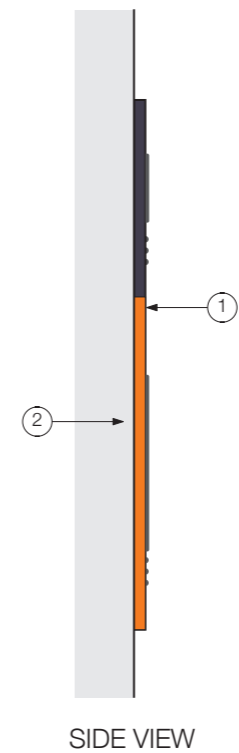
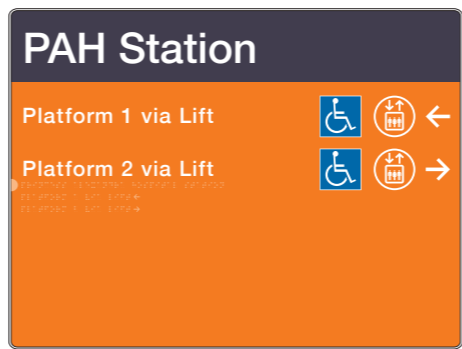
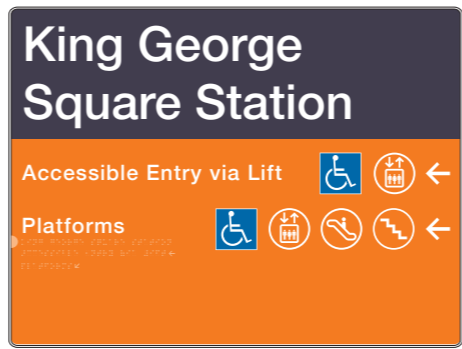
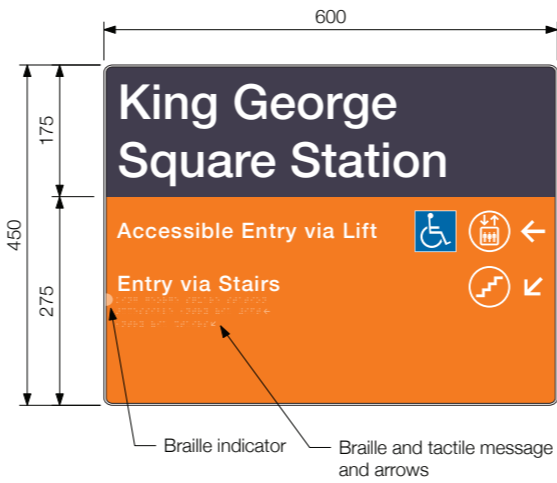
**COLOUR**  
 Transport panel = Resene 'Trinidad' O61-167-048  
 Other panel = Resene 'Jon' N38-007-359  
 Arrow = White  
 Text = White  
 Pictogram = White  
 Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

**Construction Details**  
 1. 1.6mm acrylic sign panel with Braille and tactile graphics. Use approved raised tactile pictograms / text and grade 1 Braille (uncontracted) to Australian Braille Authority and AS1428.4.2(2018) requirements. Top of Braille to be offset 8mm below letters. Braille locator notch left of first line of Braille.  
 2. Border and Braille notch / locator may be formed by machining through top layer of panel. Tactile components to be provided to ensure construction method is suitable so that all raised tactile components are robust and cannot be easily dislodged or worn down due to picking or use'.

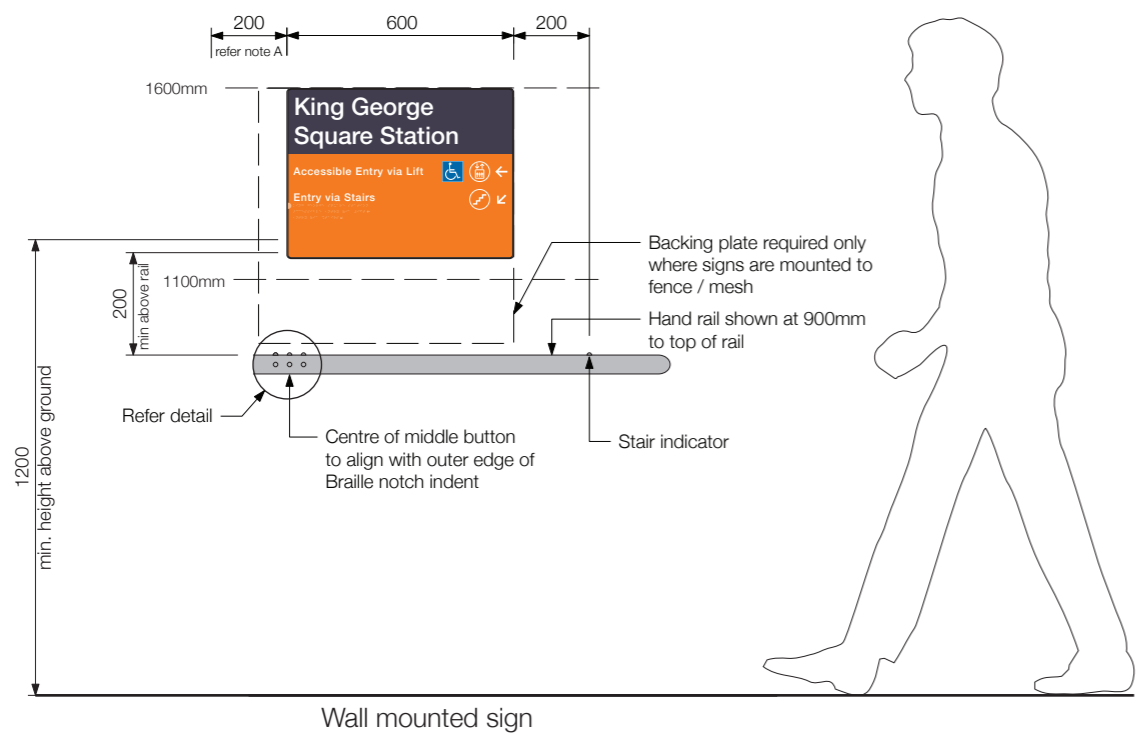
NOTE - Signmaker to have all Braille signs proof read by a reputable proofreader prior to manufacture and installation.

3. Fixed to wall with VHB double sided tape and silicone.

**SIGN PLACEMENT NOTE** - The Braille and tactile sign panel must be located between 1200mm and 1600mm above finished ground level. When the sign panel has only a single line of tactile characters, these characters must be located between 1250mm and 1350mm above finished ground level



**NOTE A**  
 Provide minimum 200mm clearance between directional signs and stair indicators



**Typical Location**  
 Scale 1:20

**Typical Graphic Layout**  
 Scale 1:10

**Braille & Tactile Panel Detail**  
 Not to Scale

**DS-6b**  
Directional Sign - Braille & Tactile Freestanding

**Purpose**  
- To direct to platforms and facilities  
- For pedestrian use

**Typical location**  
- At decision points.  
- Freestanding sign  
- Located at entry and decision points within the station property boundaries.

**Indicative message**  
- Station name  
- Platform number  
- Facility  
- Way out  
- Braille message

**Graphics Detail**  
FONT  
All text = Helvetica Neue 65 Medium

SIZE  
Station name = 45mm cap X height  
All other text = 20mm cap X height  
Arrow = 32mm high (tip to tail)  
Pictogram = 55mm high  
NOTE - Messages have 50% tracking (letter spacing)

COLOUR  
Transport panel = Resene 'Trinidad' O61-167-048  
Other panel = Resene 'Jon' N38-007-359  
Arrow = White  
Text = White  
Pictogram = White  
'No entry', 'No smoking' & CCTV pictograms = black figure on white background with AS2700 Signal Red circle and slash  
Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

**Construction Details**  
1. 50 x 50 x 3 SHS fully welded internal frame with suitable base plate. 3mm thick painted aluminium cladding with 25mm wide folded returns. Ensure adequate internal support for panel. Countersunk rivet fix cladding to internal frame. Paint out fixing heads to match cladding.

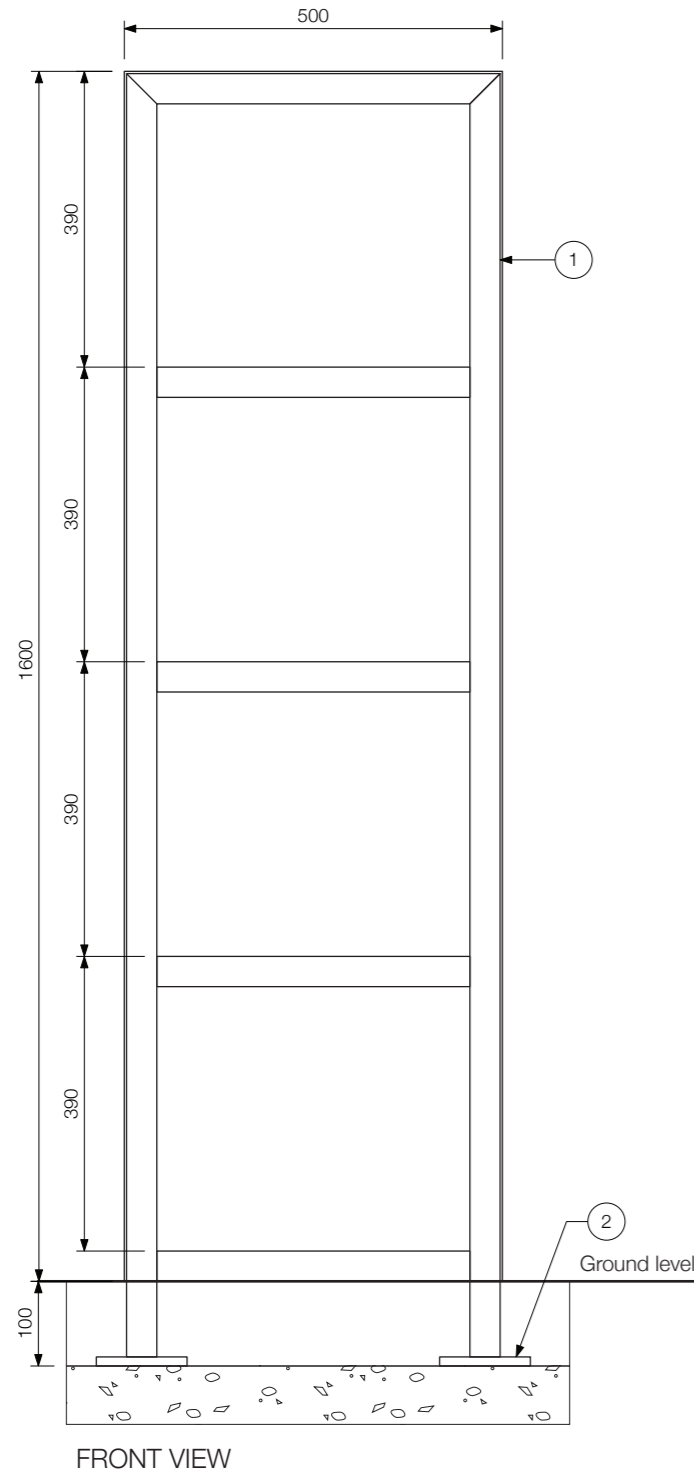
2. Chemset anchor to existing slab or reinforced concrete pad/pier footing to engineers specification. All fixings shall be below ground level to reduce trip hazards. Re-instate / make good paving or pavement, with no changes of level greater than 3mm and no gradients steeper than 1:40.

3. 1.6mm acrylic sign panel with Braille and tactile graphics. Use approved raised tactile pictograms / text and grade 1 Braille (uncontracted) to Australian Braille Authority and AS1428.4.2(2018) requirements. Top of Braille to be offset 8mm below letters. Braille locator notch left of first line of Braille.

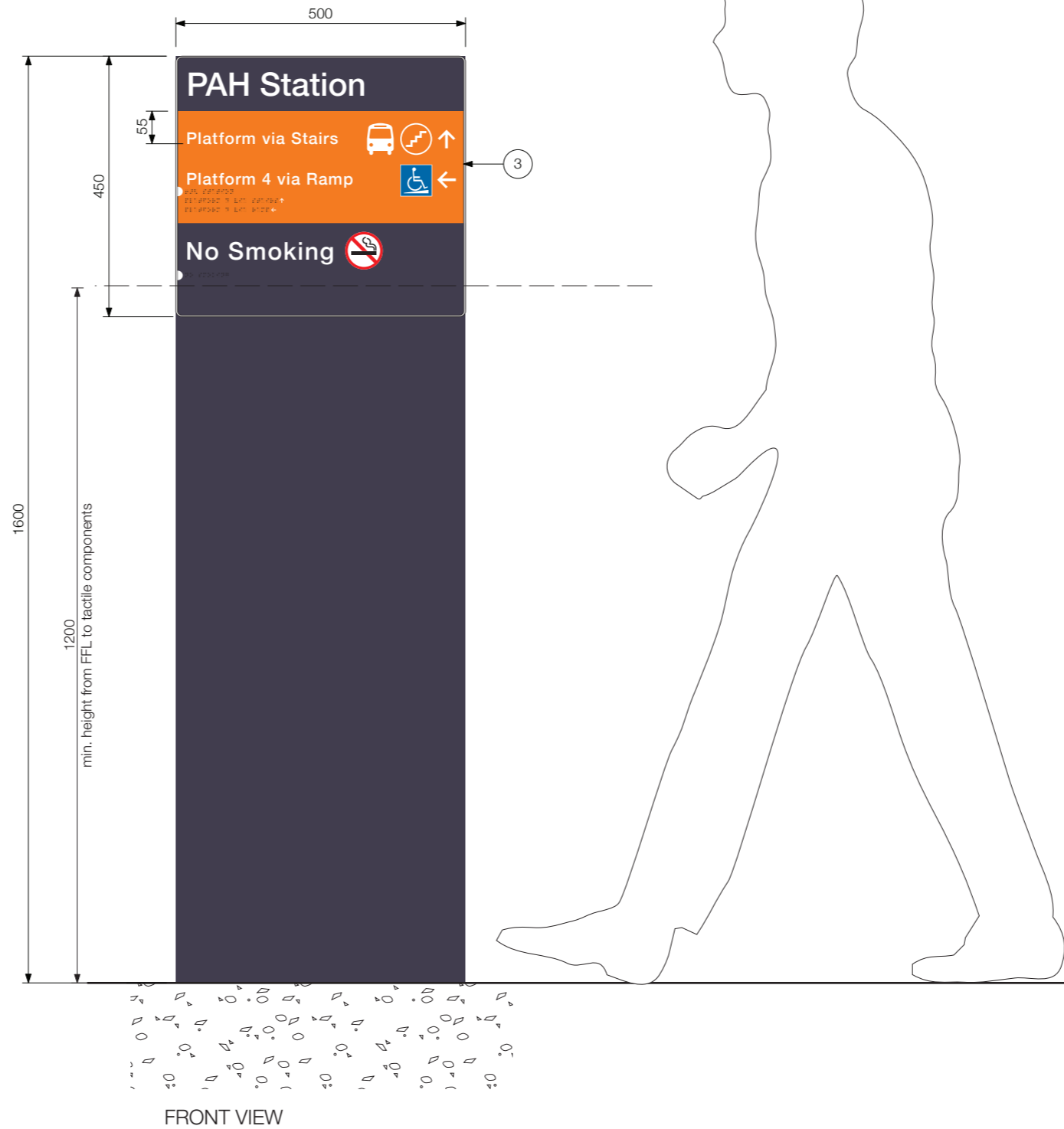
4. Border and Braille notch / locator may be formed by machining through top layer of panel. Tactile components to be provided to ensure construction method is suitable so that all raised tactile components are robust and cannot be easily dislodged or worn down due to picking or use'.

5. Fix Braille sign panel to cladding with VHB double sided tape and silicone.

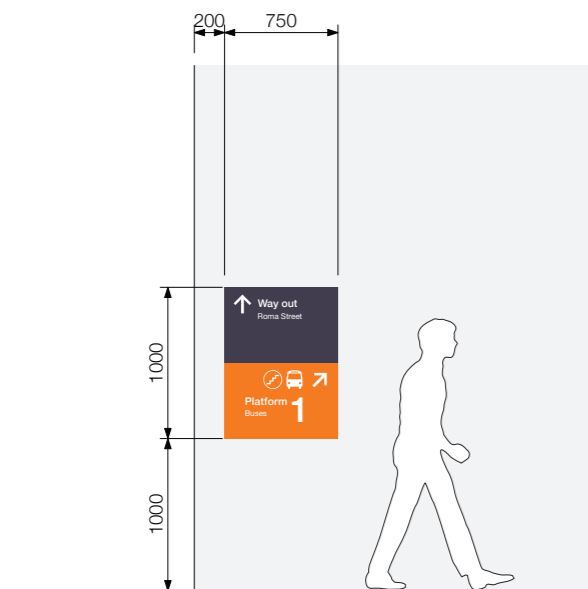
Note  
Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.



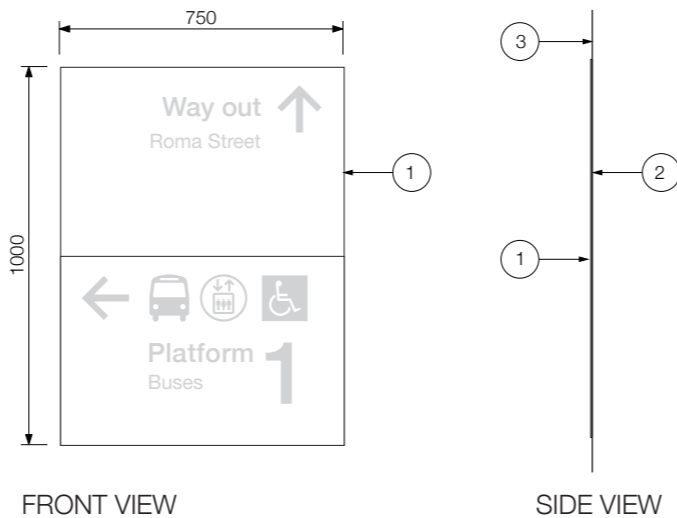
**Construction**  
Scale 1:10



**Typical Location**  
Scale 1:10



Typical Location - DS-7  
Scale 1:50



Construction Layout - DS-7  
Scale 1:20

**DS-7**  
Directional Sign - Wall/Column Mounted

**Purpose**  
- To direct to platforms and facilities  
- For pedestrian use

**Typical location**  
- At decision points.  
- Wall mounted sign  
- Located at decision points within the station property boundaries.

**Indicative message**  
- Platform number  
- Facility  
- Way out

**Graphics Detail**  
FONT  
All text = Helvetica Neue 65 Medium

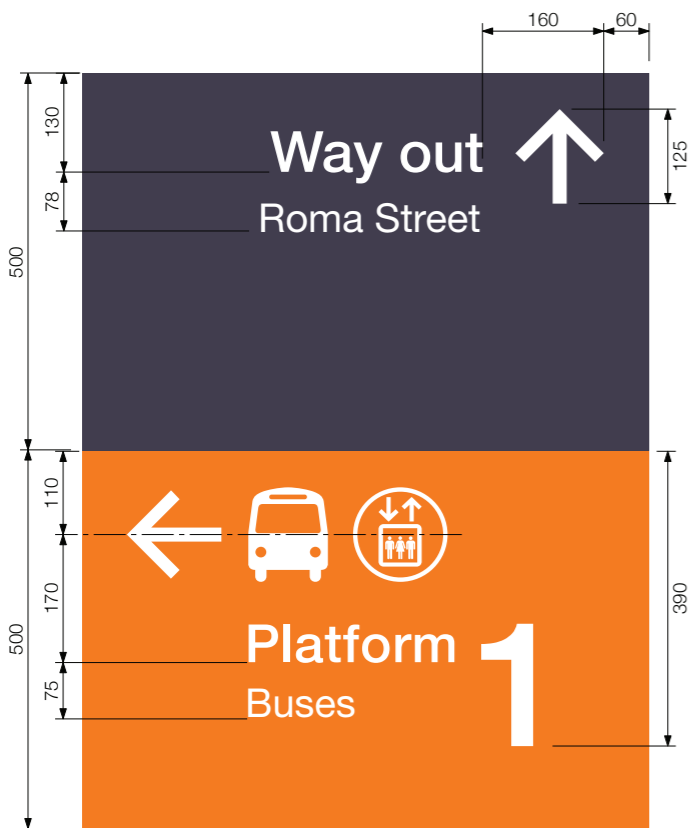
SIZE  
Platform number = 165mm cap X height  
'Way out' = 54mm cap X height  
'Platform' = 50mm cap X height  
'Trains/Buses/Roma Street' = 37mm cap X height  
Circle pictograms = 125mm x 125mm  
Bus/Train pictogram = 125mm height (proportional width)  
Arrow = 125mm high  
Others = As noted

COLOUR  
Transport panel = Resene 'Trinidad' O61-167-048  
Other panels = Resene 'Jon' N38-007-359  
Text = Arlon White 02  
Pictogram = Arlon White 02

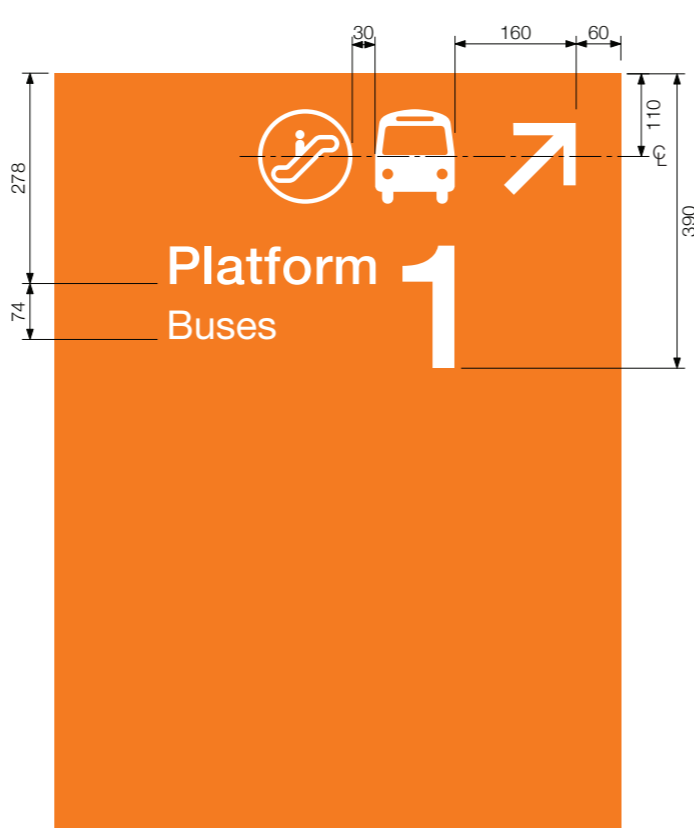
**Construction Details**  
1. 2mm thick aluminium sign panel with front applied vinyl graphics.  
Protective clear anti-graffiti spray coat over.

2. Panel fixed to wall/column with 3M VHB double sided tape and silicone. Alternatively, mechanically fix panel to wall. Paint screw heads to match panel colour at fixing locations.

3. Wall/column.



DS-7 Two direction example



DS-7 Single direction example



DS-7 Two direction example

Typical Graphic Layouts - DS-7  
Scale 1:10

**DS-8**  
Directional Sign - Freestanding

**Purpose**

- To direct to major destinations, facilities, within and outside bus station
- For pedestrian use

**Typical location**

- Only used at bus stations
- Located at decision points both within and outside the station property boundaries.
- Sign to be oriented typically with the sign face perpendicular to the main path of travel.
- Sign to be located outside required pedestrian paths of travel.

**Indicative message**

- Station name
- Telephone
- Taxi Rank
- Kiss 'n' ride
- Park 'n' ride
- Shopping Centre
- Toilets
- Platforms
- Public transport

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic  
All other text = Helvetica Neue 65 Medium

**SIZE**

Station name = 40mm cap X height  
All other text = 34mm cap X height  
Arrows = 88mm high  
Pictograms = 88mm high

**COLOUR**

Transport panel background = Resene 'Trinidad' O61-167-048  
Sign structure and other panel backgrounds = Resene 'Jon' N38-007-359

All text = Arlon White 02  
Arrows = Arlon White 02  
Pictograms = Arlon White 02

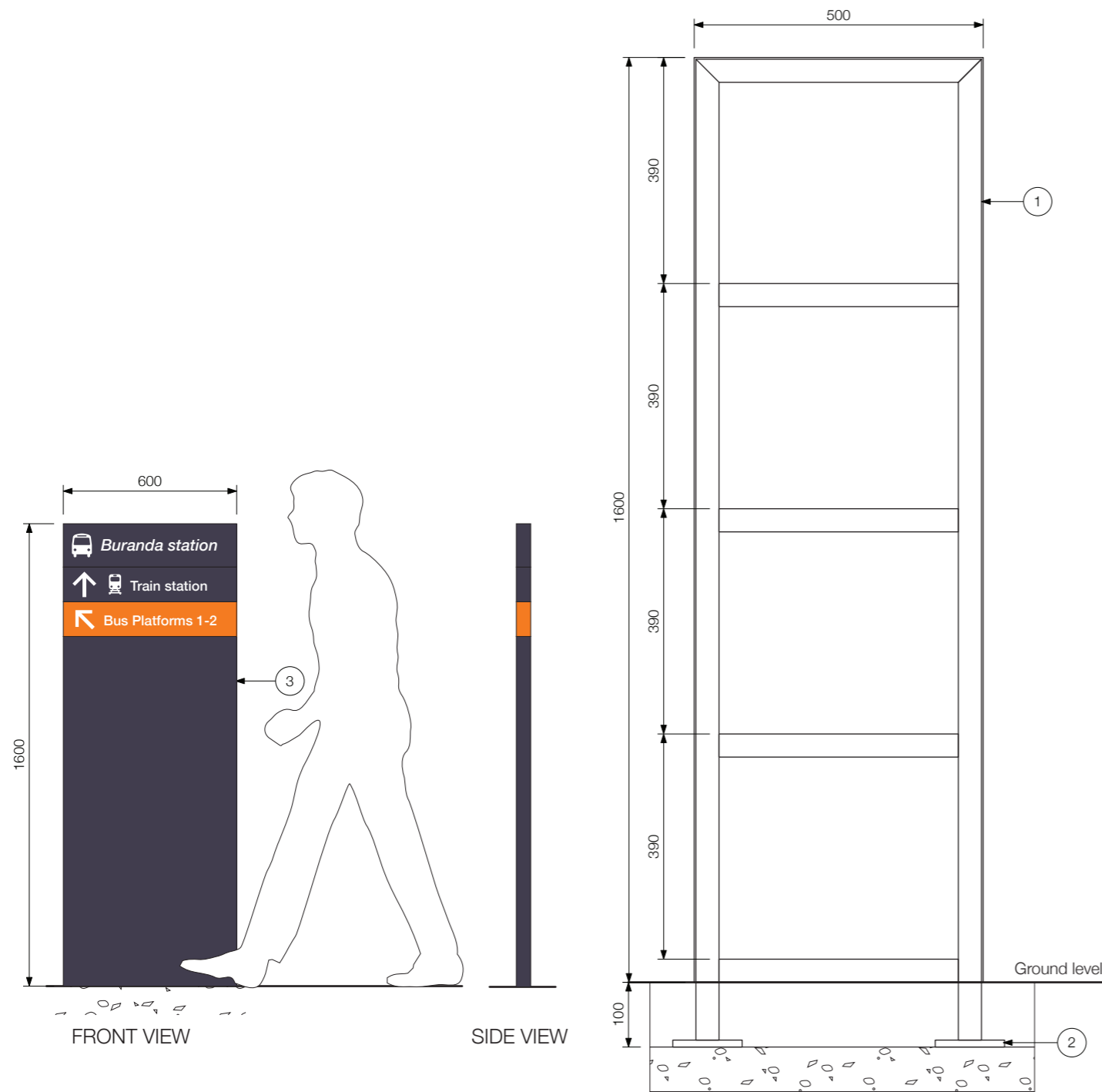
**Construction Details**

1. 50 x 50 x 3 SHS fully welded internal frame with suitable base plate. 3mm thick painted aluminium cladding with 25mm wide folded returns. Ensure adequate internal support for panel. Countersunk rivet fix cladding to internal frame. Paint out fixing heads to match cladding.

2. Chemset anchor to existing slab or reinforced concrete pad/pier footing to engineers specification. All fixings shall be below ground level to reduce trip hazards. Re-instate / make good paving or pavement, with no changes of level greater than 3mm and no gradients steeper than 1:40.

**Note**

Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.

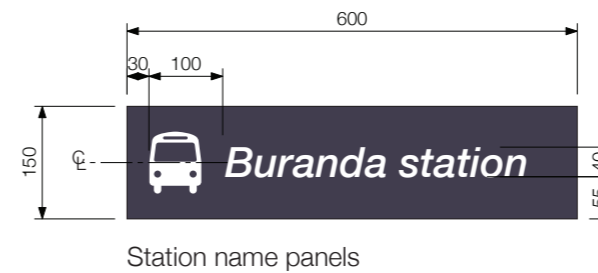


**Typical Location**

Scale 1:20

**Construction**

Scale 1:10



Station name panels



Direction panels



Direction panels

**Graphic Layouts**

Scale 1:10



**FI-1a**

**Room Identification Sign**

**Purpose**

- To identify staff facility
- For staff use

**Typical location**

- Next to facility door.
- Height to CL of sign - 1500mm
- First preferred sign location is on the wall next to the door on the same side as the door handle.
- Second preferred location (only if the first location is unavailable) is on the wall next to the door on the hinge side.
- Third preferred location (only if the first and second locations are unavailable) is centred on the door.

**Indicative message**

- Staff only
- Office

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

All text = 20mm cap X height

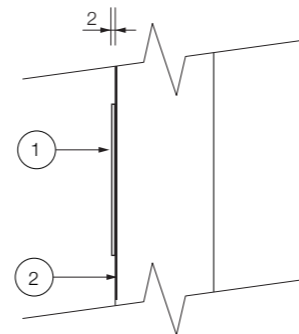
**COLOUR**

Panel = Resene 'Jon' N38-007-359

Text = Arlon White 02

**Construction Details**

1. 2mm aluminium panel with front applied vinyl graphics. Protective clear coat over.
2. Fixed to door with 3M VHB double sided tape and silicone.
3. Where signs are located in reach of a person, all exposed corners are to have 10mm radius for safety.
4. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing.



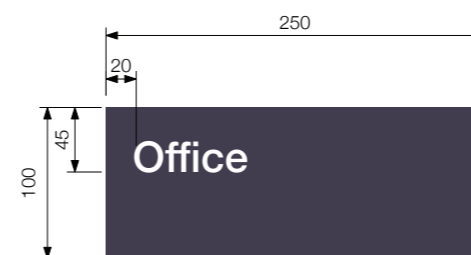
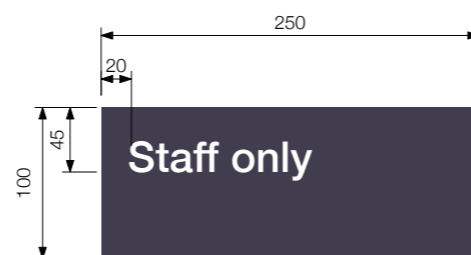
SIDE VIEW



FRONT VIEW

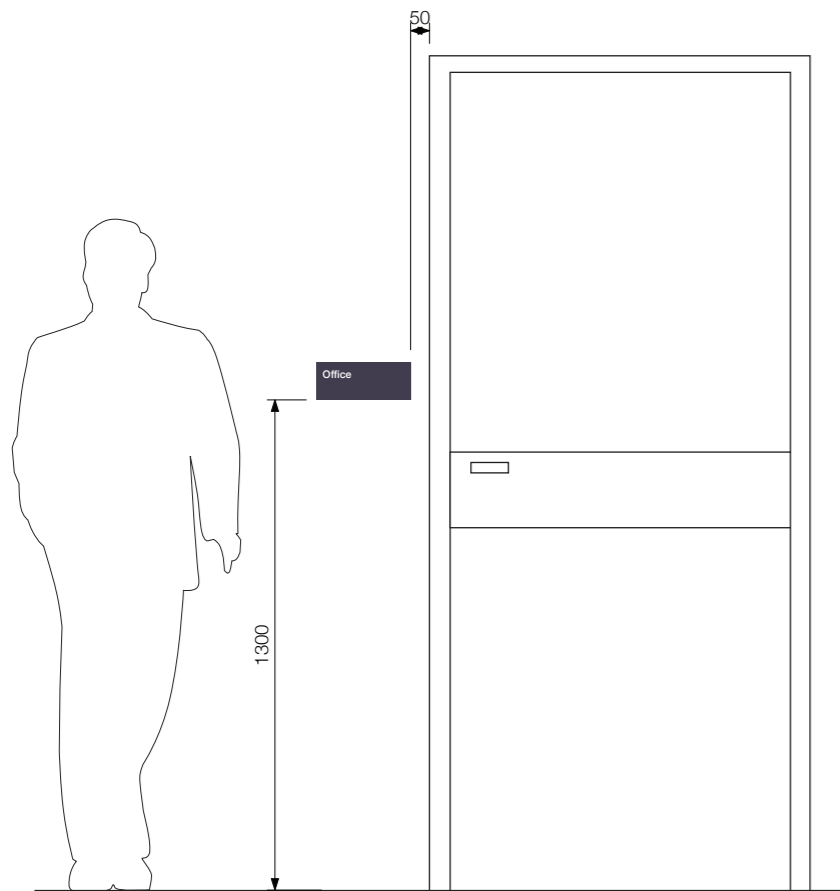
**Construction Layout**

Scale 1:5



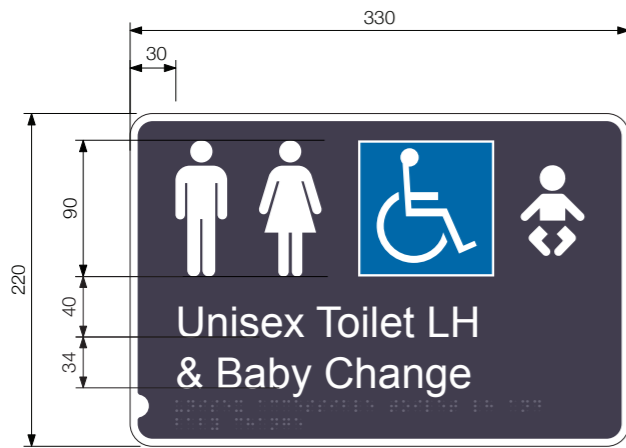
**Graphic Layouts**

Scale 1:5

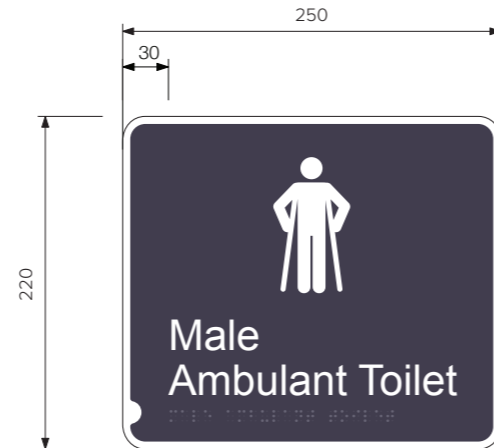


**Typical Location**

Scale 1:20



Sign ref FI-1b.1  
braille = unisex accessible toilet lh and baby change  
NOTE – Handing of toilet to be identified as per AS 1428.1



Sign ref FI-1b.2  
Male Ambulant Toilet  
braille = male ambulant toilet



Sign ref FI-1b.3  
Female Ambulant Toilet  
braille = female ambulant toilet

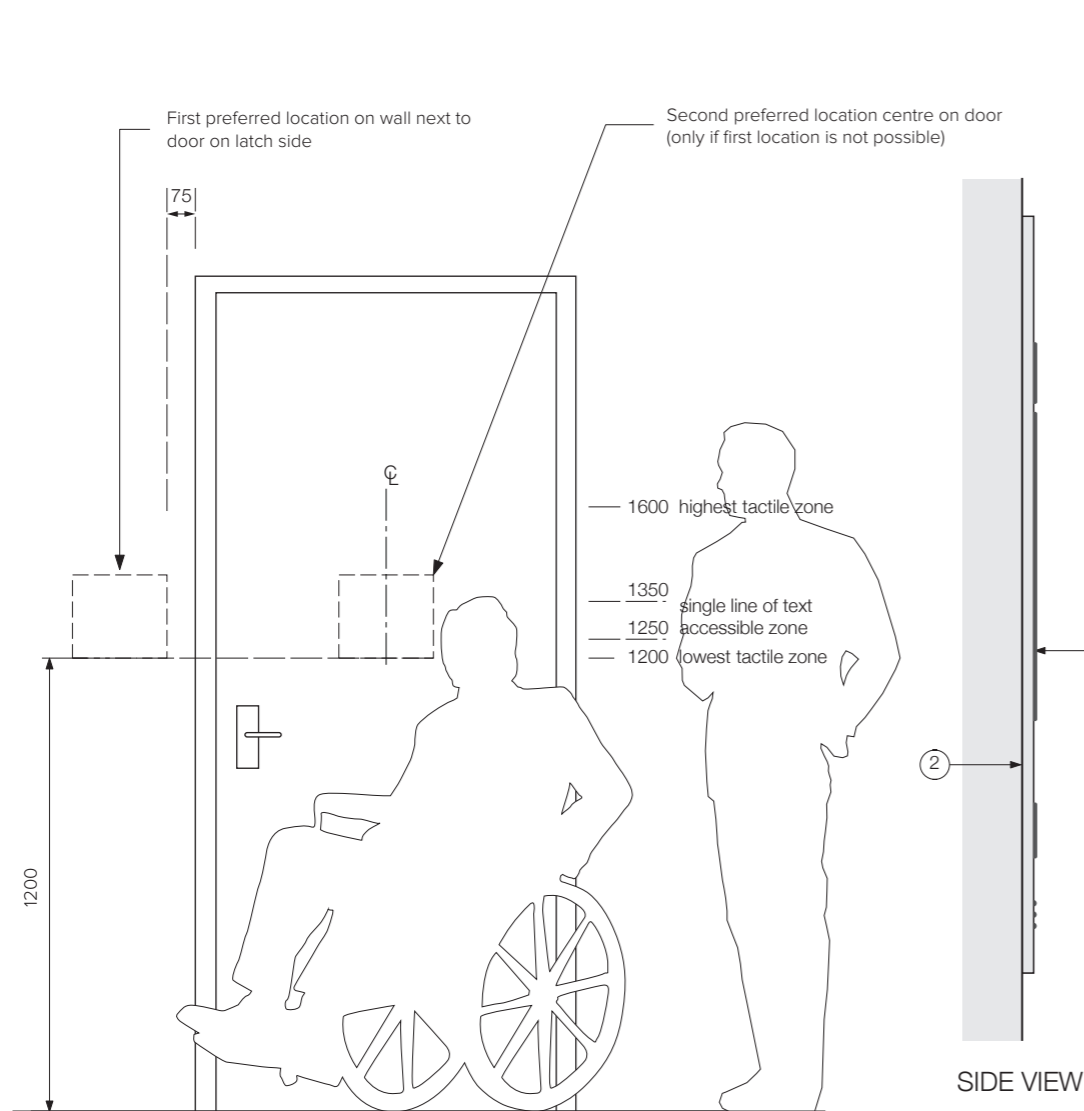
**FI-1b**  
Room Identification Sign (Braille & Tactile)

**Purpose**  
- To identify all facilities

**Typical location**  
- Mounted next to facility entrance door  
- First preferred sign location is on the wall next to the door on the same side as the door handle.  
- Second preferred location (only if the first location is unavailable) is centred on door.

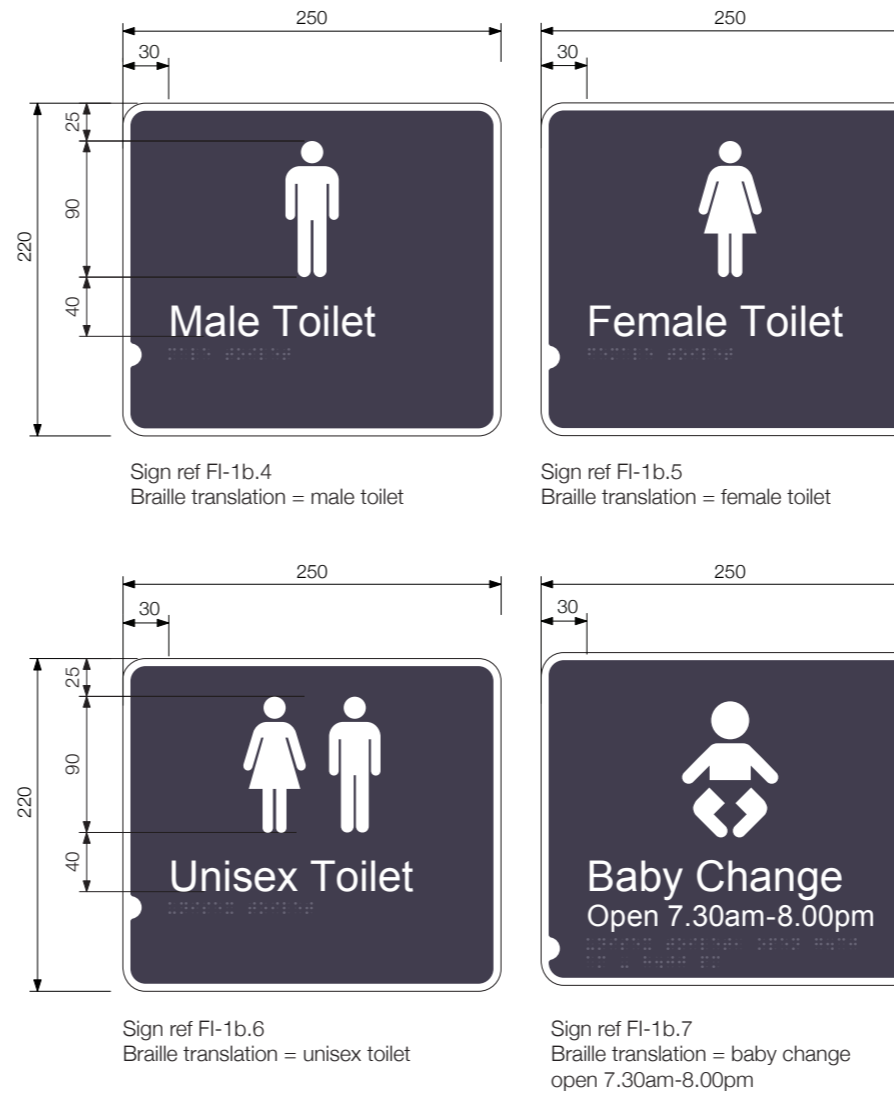
**Indicative message**  
- Male Toilet, Female Toilet, Unisex Toilet  
- Relevant pictogram  
- Braille message

**Graphic Layouts**  
Scale 1:5



**Typical Location**  
Scale 1:20

**Braille & Tactile Panel**  
Scale 1:2



**Graphic Layouts**  
Scale 1:5

**Graphics Detail**  
FONT  
All text = Arial Regular

SIZE  
Main text = 20mm cap X height  
'Open...' = 15mm cap X height  
Pictogram = 90mm O/A height

COLOUR  
Panel = Resene 'Jon' N38-007-359  
Text = white  
Pictogram = white  
Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

- Construction Details**
1. 1.6mm acrylic sign panel with Braille and tactile graphics. Use approved raised tactile pictograms and text and grade 1 Braille (uncontracted) to Australian Braille Authority, NCC and AS1428.4.2(2018) requirements. Top of Braille to be offset 8mm below letters. Braille locator notch left of first line of Braille.
  2. Border and Braille notch / locator may be formed by machining through top layer of panel. Tactile components to be provided to ensure construction method is suitable so that all raised tactile components are robust and cannot be easily dislodged or worn down due to picking or use'.
  3. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing. Sign panel adhered to wall/door with 3M VHB double sided tape & silicone.

**SIGN PLACEMENT NOTE** - The Braille and tactile sign panel must be located between 1200mm and 1600mm above finished ground level. When the sign panel has only a single line of tactile characters, these characters must be located between 1250mm and 1350mm above finished ground level

NOTE - Hours of operation are to suit facility

**FI-1g**

**Help Phone Identification Signs**

**Purpose**

To identify and provide information on the Help Phone.

**Typical location**

Mounted to post or onto freestanding console.

**Indicative message**

- Help phone
- Hearing Loop

**Optional:**

- Electronic Timetable

**Graphics Details**

HELP PHONE

FONT

All text = Helvetica Neue 65 Medium

**SIZE**

- Sign Border = 5mm typical
- Braille notch = 10mm wide x 6mm deep
- Help Phone text = 25mm high.
- Emergency Assistance text = 15mm high.
- Press and Wait text = 15mm high.
- Pictogram = 40mm high.
- Braille text = As per Australian Standards
- Side Panel Pictograms = 60mm high.

**COLOUR**

- Panel = To match Pantone 032 C
- Outside border = White.
- Screen border = White.
- Text and Graphic = White.
- Symbols = White.

**TIMETABLE / HEARING LOOP**

FONT

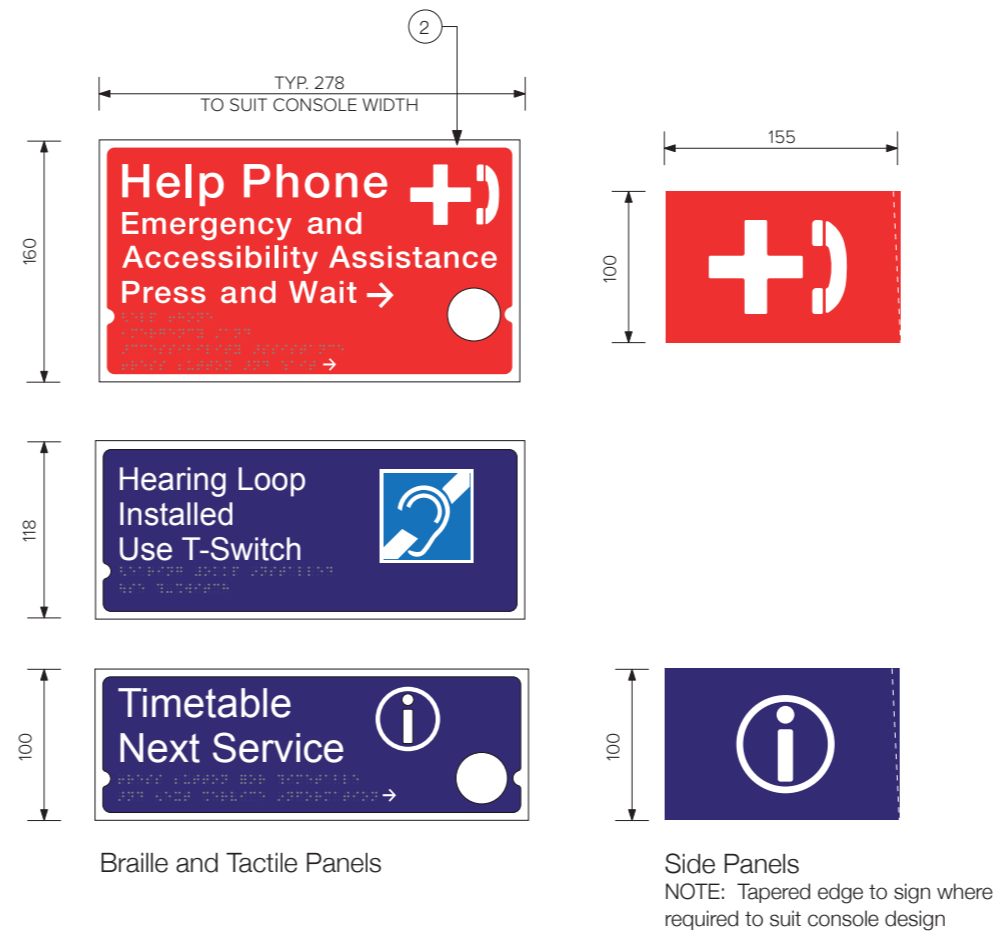
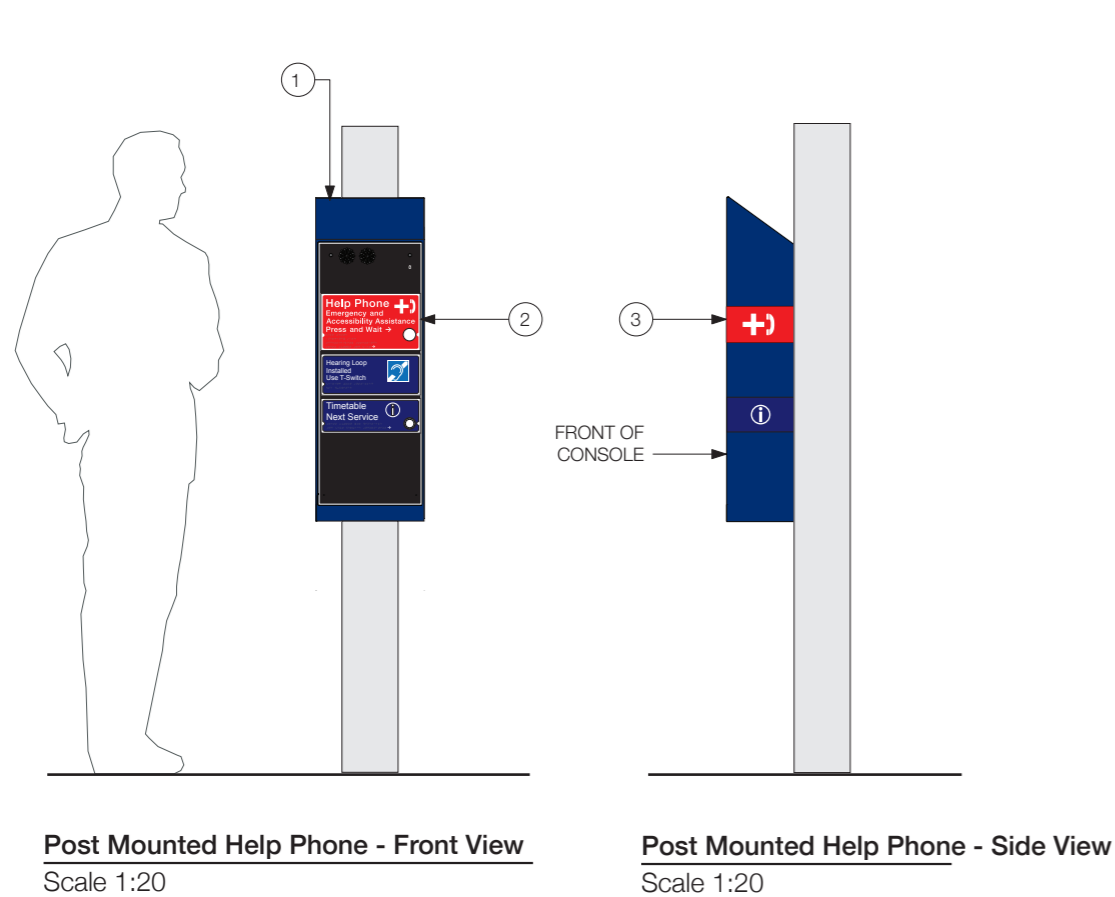
All text = Helvetica Neue 65 Medium

**SIZE**

- Braille notch = 10mm wide x 6mm deep
- Hearing Loop text = 15mm high.
- Timetable next service text = 20mm high.
- Hearing Loop Symbol = 60mm wide x 60mm high.
- Pictogram = 40mm high.
- Braille panel text = As per Australian Standards
- Side Panel Pictograms = 60mm high.

**COLOUR**

- Panel = To match Pantone 288C
- Outside border = White.
- Text and Graphic = White.
- Hearing Loop = To match AS2700 B21 Ultramarine Blue
- Symbols = White.

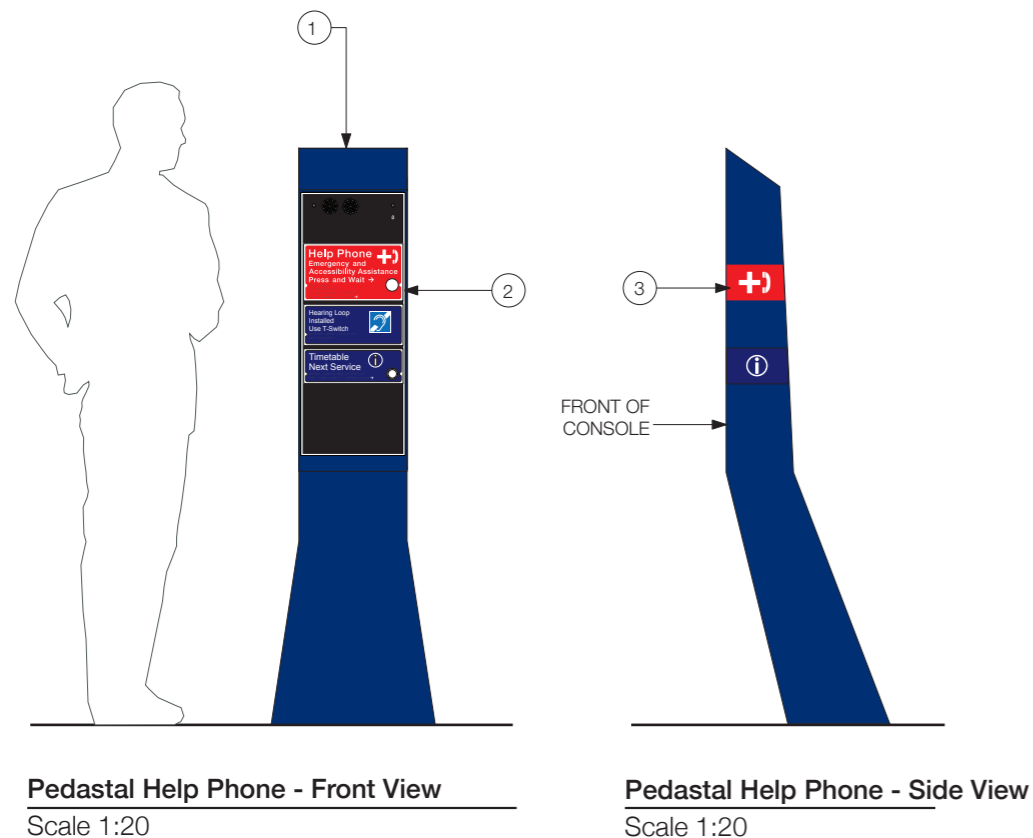


**NOTE:**

FINAL DETAILS TO BE PROVIDED BY TRANSLINK PRIOR TO MANUFACTURE AND INSTALLATION

**Construction Details**

1. Help phone console to Translink Standards.
2. Braille and tactile sign panels, 1.6mm thick aluminium sign panels. Use approved raised tactile pictograms and text and grade 1 Braille (uncontracted) to Australian Braille Authority, NCC and AS1428.4.2(2018) requirements. Top of Braille to be offset 8mm below letters. Braille locator notch left of first line of Braille.
3. Side graphic panels, 1.6mm thick aluminium panels with front applied graphics and protective satin clear coat.
4. All panels fixed to cabinet with 3M 468 double sided adhesive tape.



Sign Type

**FI-2**

**Facility Identification Sign - Under Awning**

**Purpose**

- To identify facility
- For pedestrian use

**Typical location**

- Located on facility structure
- Fixed to underside of awning structure
- The bottom of the sign must not project below 2.2m above the finished floor level
- Sign to be oriented typically with the sign face perpendicular to the main path of travel

**Indicative message**

- Bicycle racks
- Toilets

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

- Large pictogram = 320mm high
- Small pictogram = 200mm high
- 'Stop' = 55mm cap X height
- Letter = 200mm cap X height

**COLOUR**

- Transport panel background = Resene 'Trinidad' O61-167-048
- Other panel background = Resene 'Jon' N38-007-359
- Text = Arlon White 02
- Pictogram = Arlon White 02
- Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

**Construction Detail**

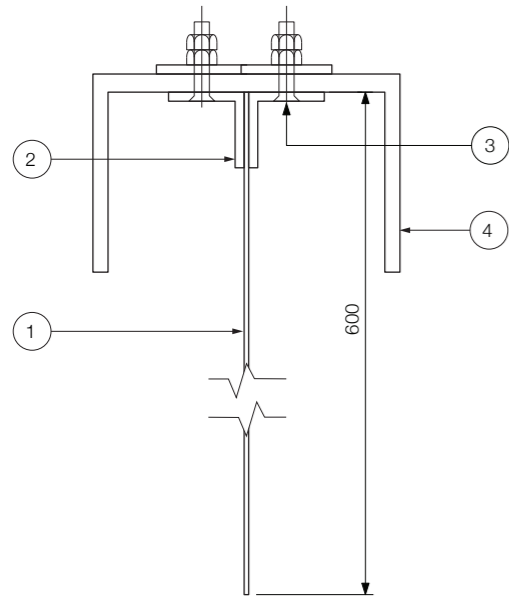
1. 5mm thick aluminium painted sign panel with welded fixing angles and mounting holes drilled and tapped to match existing. Front applied vinyl graphics with clear anti-graffiti spray coat over.

2. 50 x 50 x 6mm aluminium angle welded to 5mm thick plate.

**FIXING METHOD**

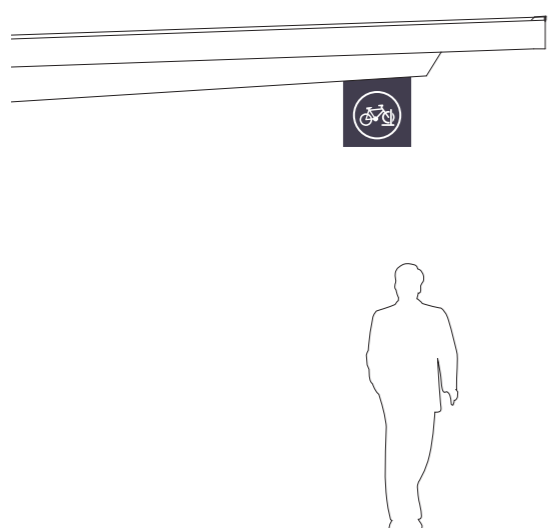
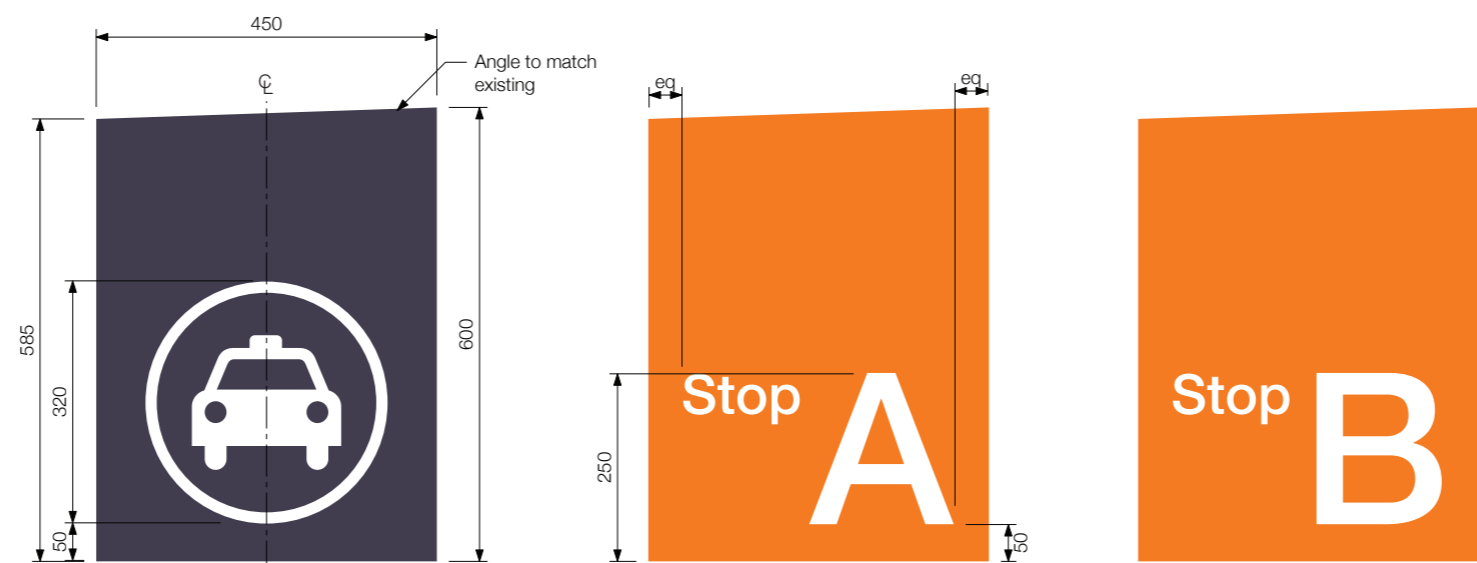
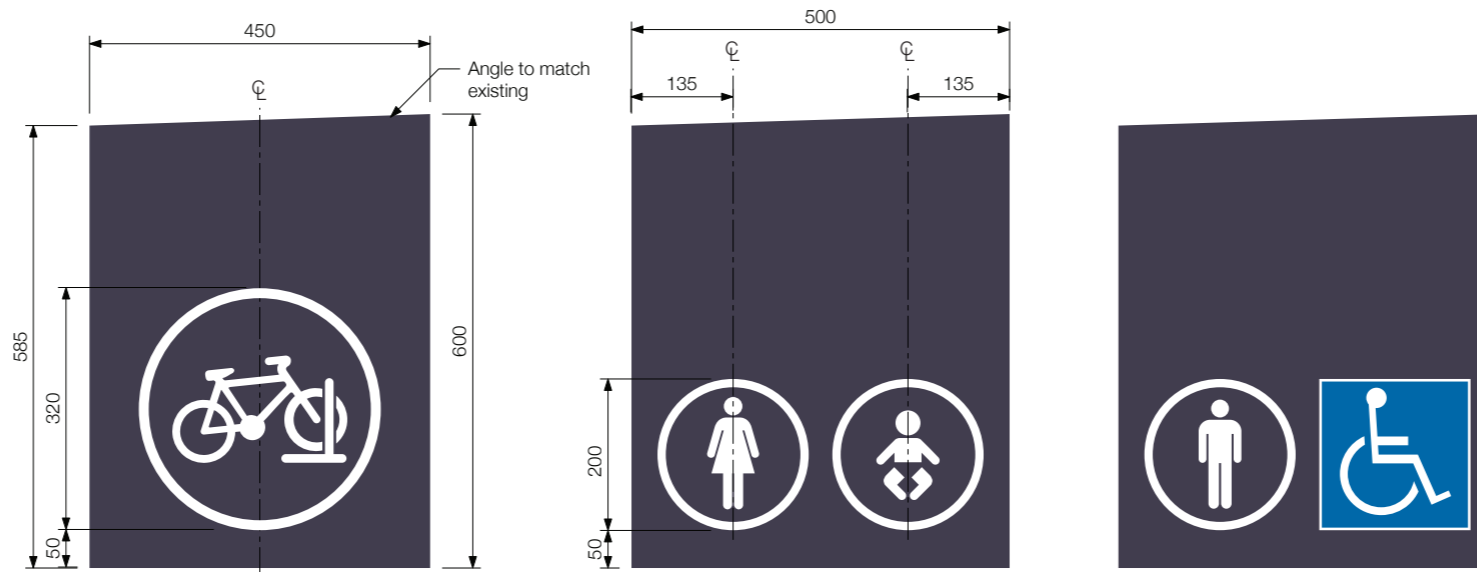
3. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.

4. Shelter structure.



**Detail**

Scale 1:10



**Typical Location**

Scale 1:50

**Typical Graphic Layouts**

Scale 1:10

Sign Type

### FI-3a

#### Kiss 'n' Ride Identification Sign

**Purpose**

- To identify pick up and drop off zone
- For pedestrian use

**Typical location**

- Located at head of Kiss 'n' ride set down zone.
- Located in either TransLink or local council property depending on site layout and location of facility. Note:- If located outside Translink property, local council to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches. Sign to point away from road.
- Sign post to be located outside required pedestrian paths of travel.

**Indicative message**

- Kiss 'n' ride
- pictogram

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

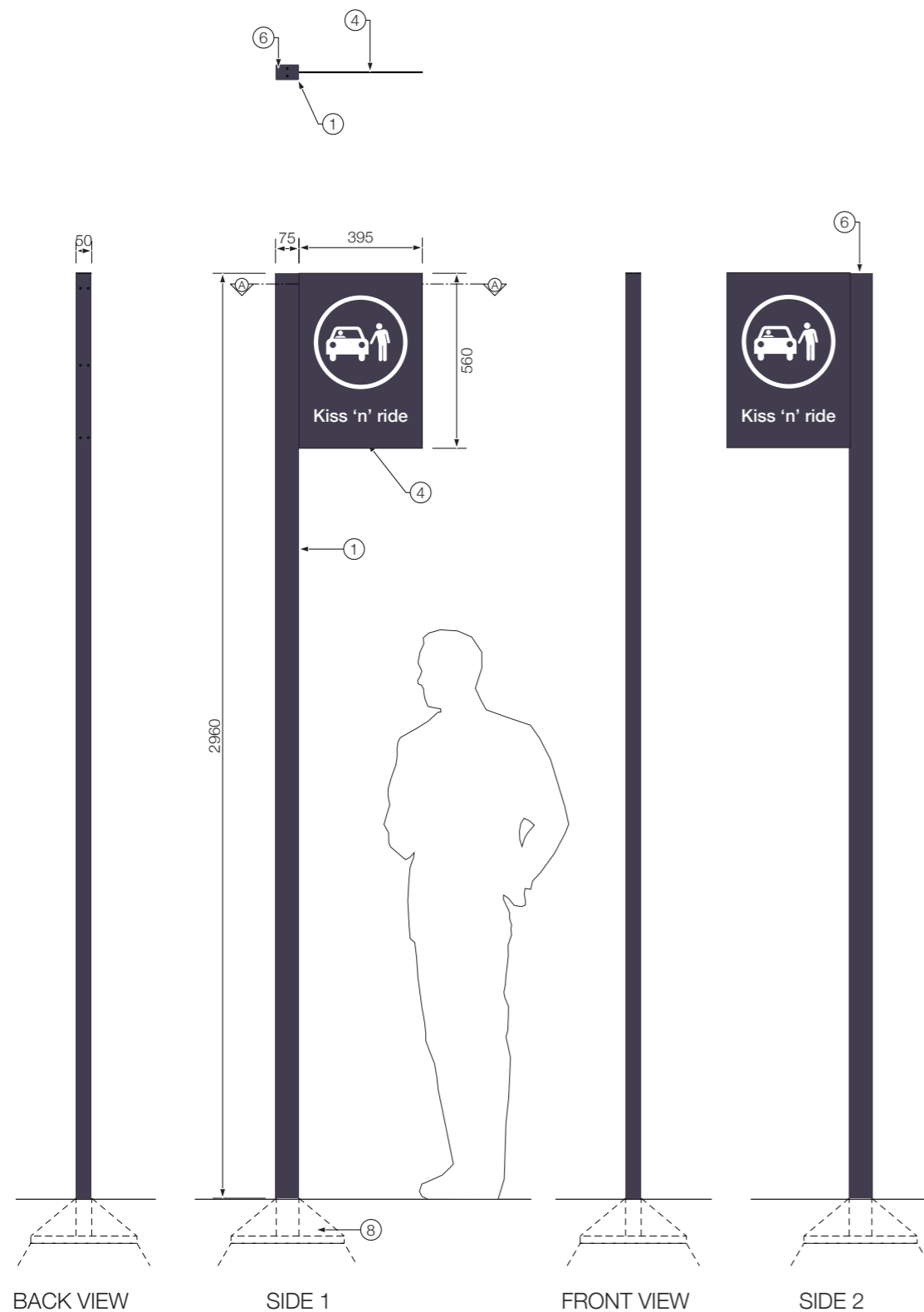
'Kiss n ride' = 40mm cap X height  
Pictogram = 300mm

**COLOUR**

Pole = Resene 'Jon' N38-007-359  
Panel background = Resene 'Jon' N38-007-359  
Pictogram = Arlon White 02  
Text = Arlon White 02

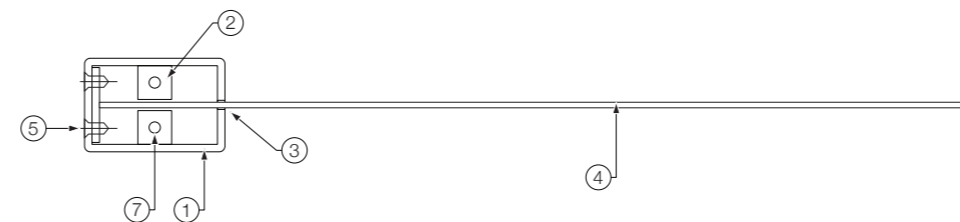
**Construction Details**

1. 75 x 50 x 4mm RHS galvanised steel pole. Base plate and gussets welded to end.
2. 18 x 18 x 4mm galvanised steel tabs welded to inside of pole. 2 off M6 nuts welded to tabs.
3. Cut out slot allowing 5mm sign panel to slide into pole. (Clearance fit)
4. 5mm thick aluminium sign panel. 557 x 50 x 5mm fixing plate welded to one edge.
5. M6 stainless steel (316) phillip head self tapping c'sunk screw fixings through post into fixing plate
6. 2mm thick galvanised steel capping to top of post.
7. M6 stainless steel (316) phillip head self tapping c'sunk screw, fixes capping to tabs.
8. Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.



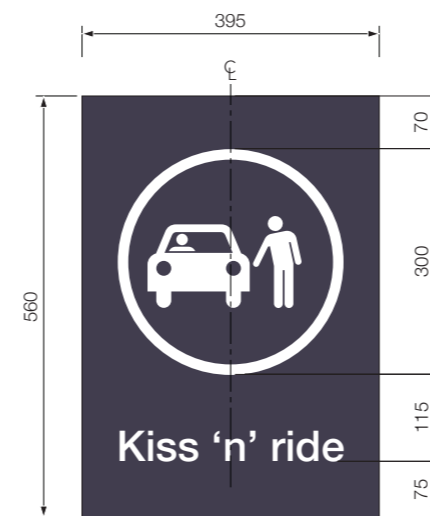
**Elevations**

Scale 1:20



**Section A-A**

Scale 1:2



**SIDE 1**

**Typical Graphic Layout**

Scale 1:10

Sign Type

**FI-3b**

**Taxi Identification Sign**

**Purpose**

- To identify Taxi zone
- For pedestrian use

**Typical location**

- Located at head of taxi zone.
- Located in either TransLink or local council property depending on site layout and location of zone. Note:- If located outside TransLink property, local council to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches. Sign to point away from road.
- Sign post to be located outside required pedestrian paths of travel.

**Indicative message**

- Taxi and pictogram

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

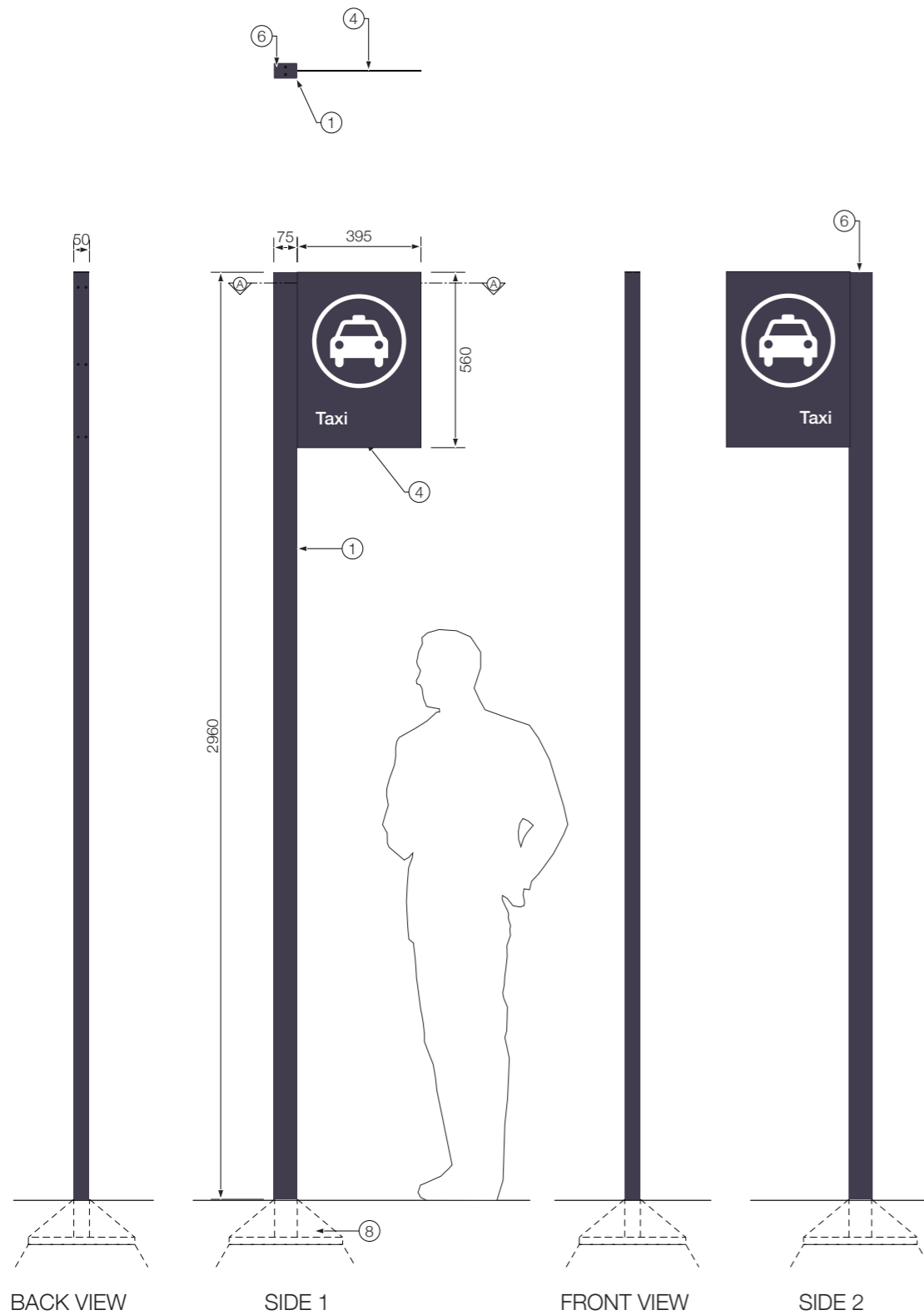
'Kiss n ride' = 40mm cap X height  
Pictogram = 300mm

**COLOUR**

Pole = Resene 'Jon' N38-007-359  
Panel background = Resene 'Jon' N38-007-359  
Pictogram = Arlon White 02  
Text = Arlon White 02

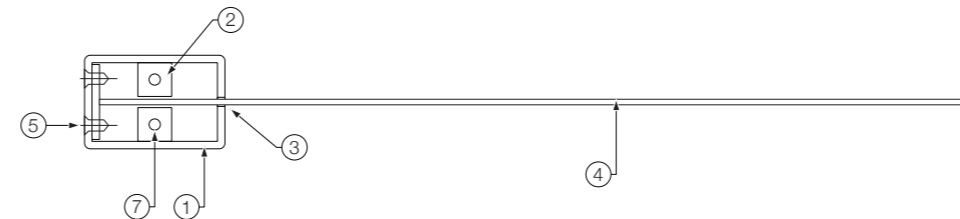
**Construction Details**

1. 75 x 50 x 4mm RHS galvanised steel pole. Base plate and gussets welded to end.
2. 18 x 18 x 4mm galvanised steel tabs welded to inside of pole. 2 off M6 nuts welded to tabs.
3. Cut out slot allowing 5mm sign panel to slide into pole. (Clearance fit)
4. 5mm thick aluminium sign panel. 557 x 50 x 5mm fixing plate welded to one edge.
5. M6 stainless steel (316) phillip head self tapping c'sunk screw fixings through post into fixing plate
6. 2mm thick galvanised steel capping to top of post.
7. M6 stainless steel (316) phillip head self tapping c'sunk screw, fixes capping to tabs.
8. Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.



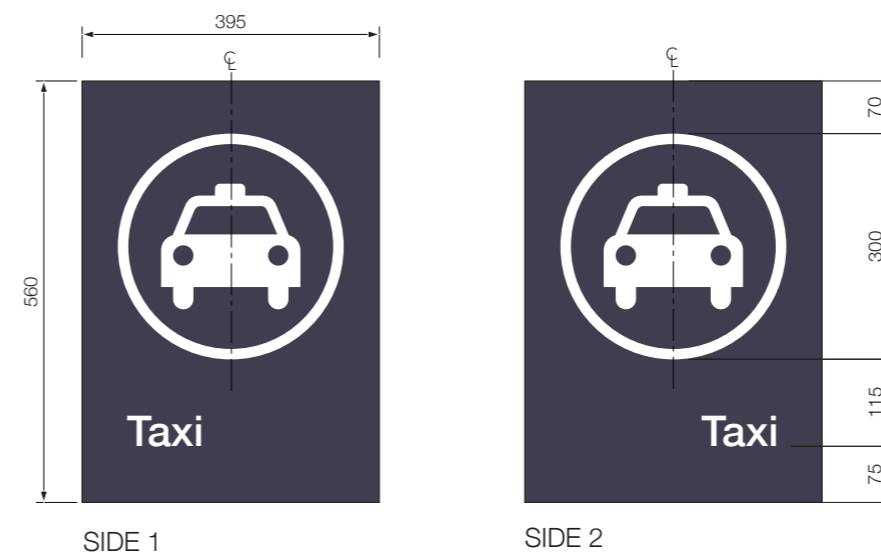
**Elevations**

Scale 1:20



**Section A-A**

Scale 1:2



**Typical Graphic Layout**

Scale 1:10

Sign Type

**FI-5**

**Facility Sign**

**Purpose**

- To identify restricted areas, passenger responsibilities and regulatory requirements

**Typical location**

- Mounted at restricted areas
- Wall mounted signs located along main pathways and waiting areas

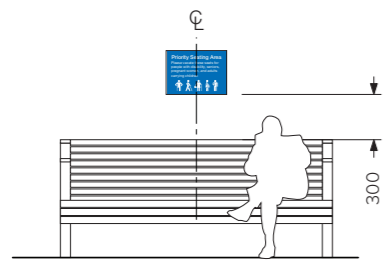
**Indicative message**

- Prohibited activities eg. smoking, crossing lines.
- Passenger responsibilities
- CCTV surveillance

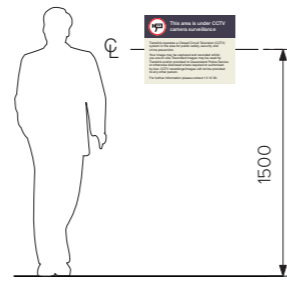
Refer to page 4.16.2 for Graphic details.

**Construction Details**

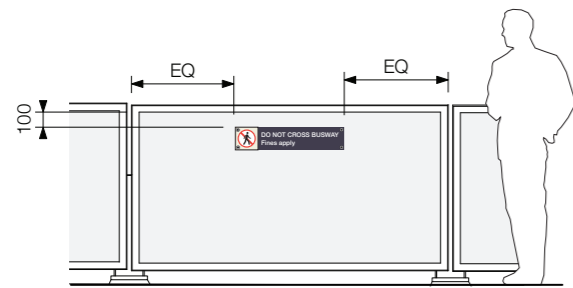
1. 2mm thick painted aluminium panel with front applied vinyl graphics. Protective anti-graffiti clear coat over.
2. "Demon" fasteners painted to match sign face.
3. Where signs are located in reach of a person, all exposed corners are to have 10mm radius for safety.
4. Barrier fence. Fix sign panel to perforated metal screen fence. Fixings to coordinate with pattern and border.
5. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing. Panel adhered to surface with 3M VHB double sided tape (to be confirmed).
6. Structural framework and footing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.



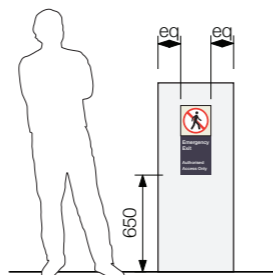
MOUNTED ABOVE SEATING



WALL MOUNTED



MESH MOUNTED



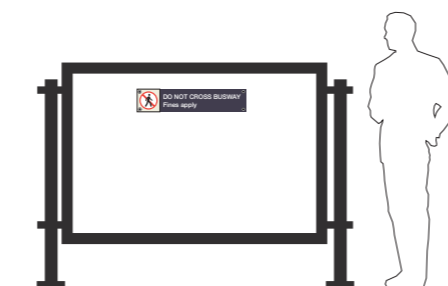
COLUMN MOUNTED



FREESTANDING



STATION STRUCTURE MOUNTED



SCREEN MOUNTED



BARRIER WALL MOUNTED

**Typical Locations**

Scale 1:50

**NOTE:**  
CONTENT AND INFORMATION ON SIGNS  
TO MATCH FACILITY REQUIREMENTS

Sign Type

**FI-5**

**Facility Sign**

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

as shown

**COLOUR**

Panel = Resene 'Jon' N38-007-359

Panel (off-white) = Resene 'Rice Cake' G94-010-092

Post = Resene 'Jon' N38-007-359

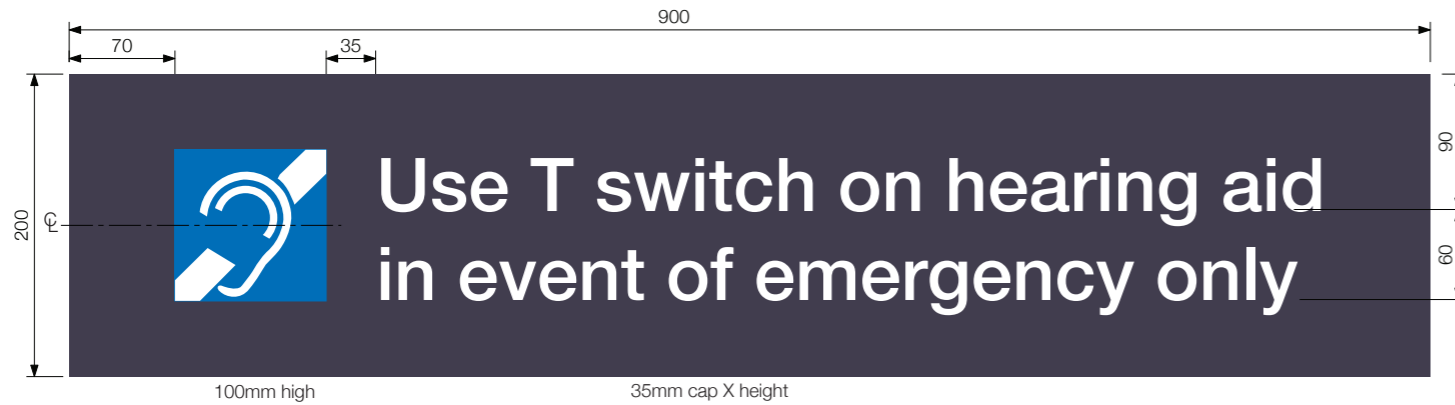
Text = Arlon White 02

'No entry', 'No smoking' & CCTV pictograms = black figure on white background with AS2700 Signal Red circle and slash

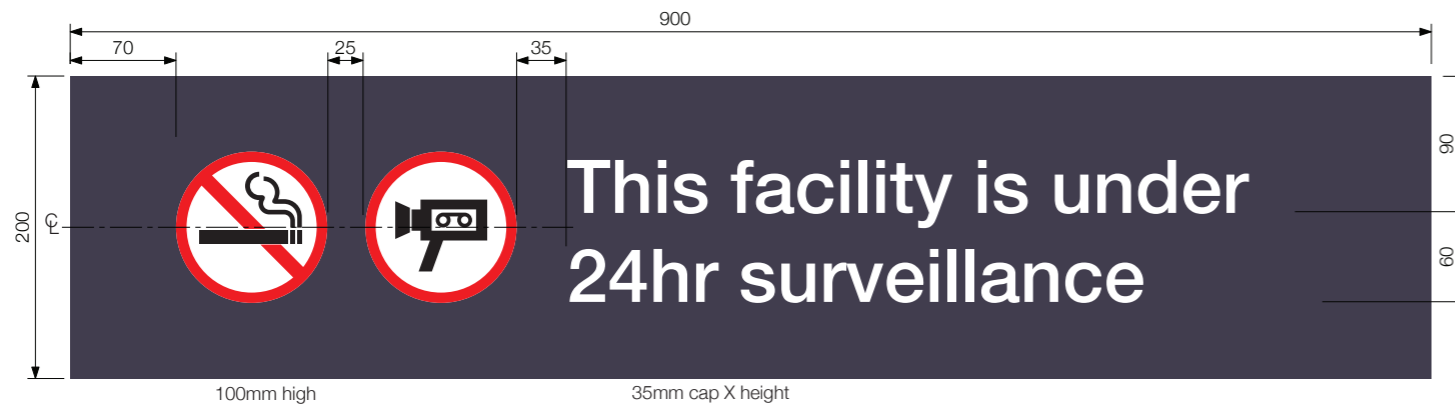
'Hearing' pictogram = white graphic on AS2700 B21 Ultramarine Blue background

Yellow line = Arlon Primrose Yellow 67

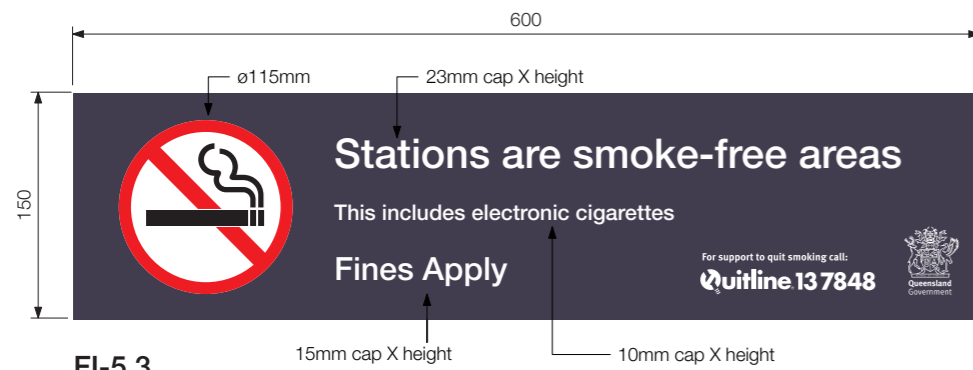
Refer to page 4.16.1 for Construction details.



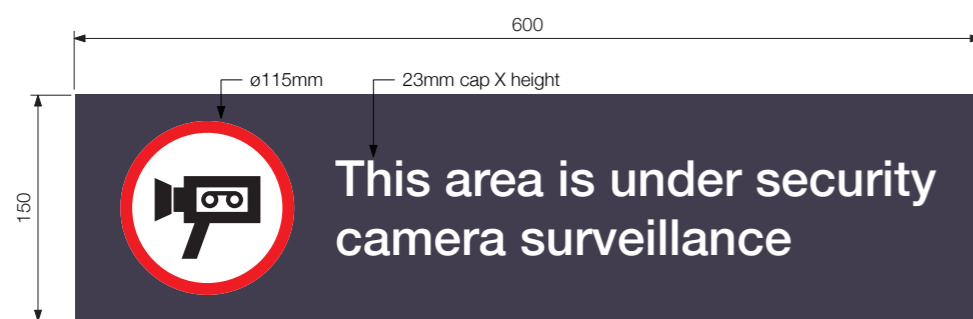
FI-5.1



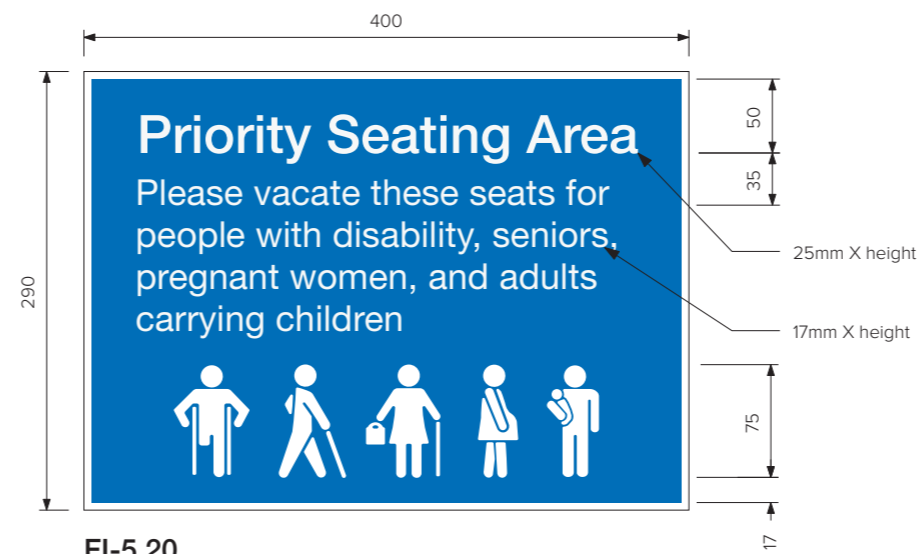
FI-5.2



FI-5.3



FI-5.4



FI-5.20

**Graphic Layouts**

Scale 1:5

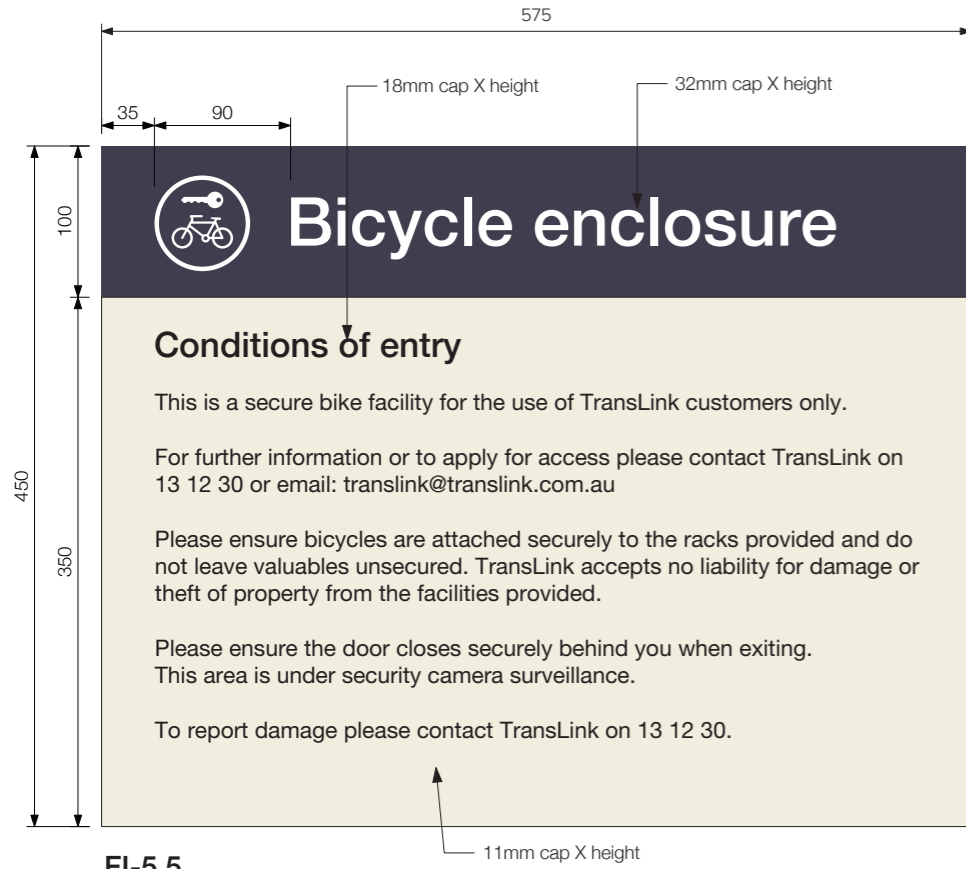


Sign Type

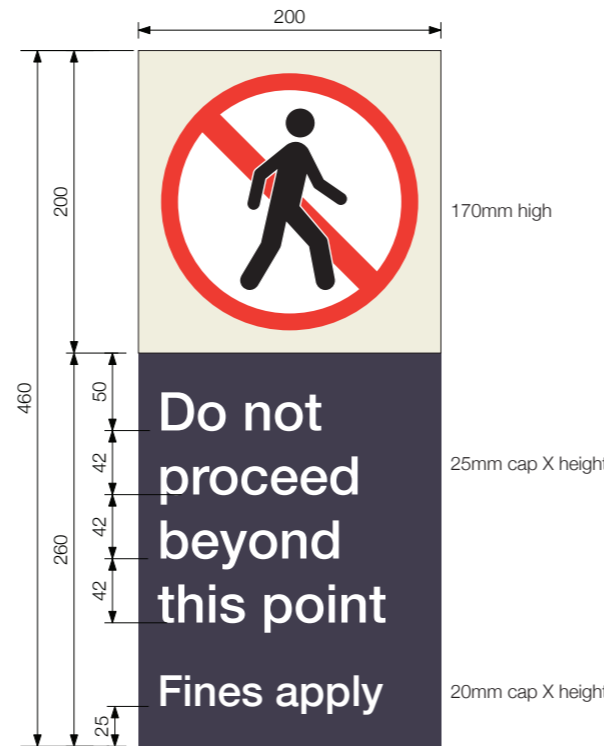
**FI-5**

**Facility Sign**

Refer to page 4.16.1 for Construction details.



FI-5.5



FI-5.6



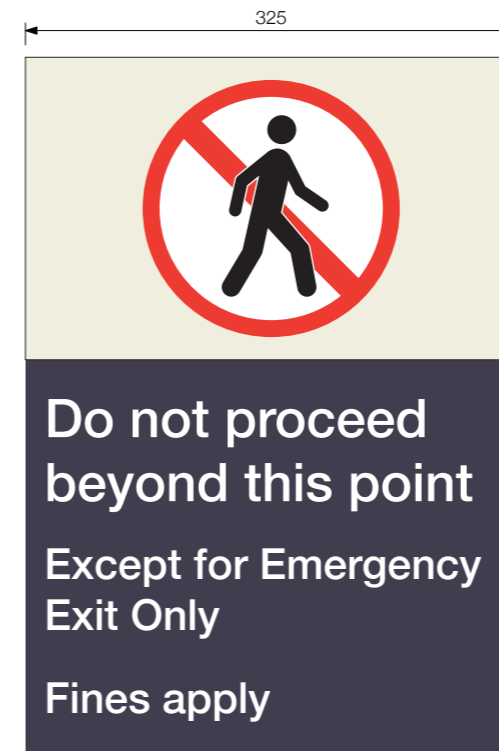
FI-5.7



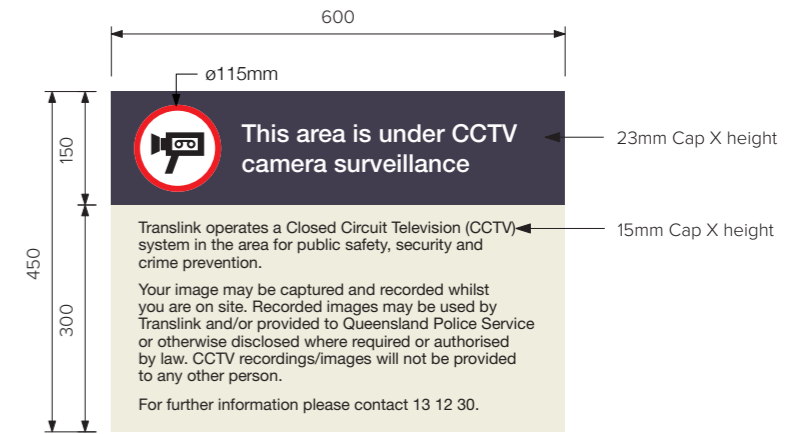
FI-5.8



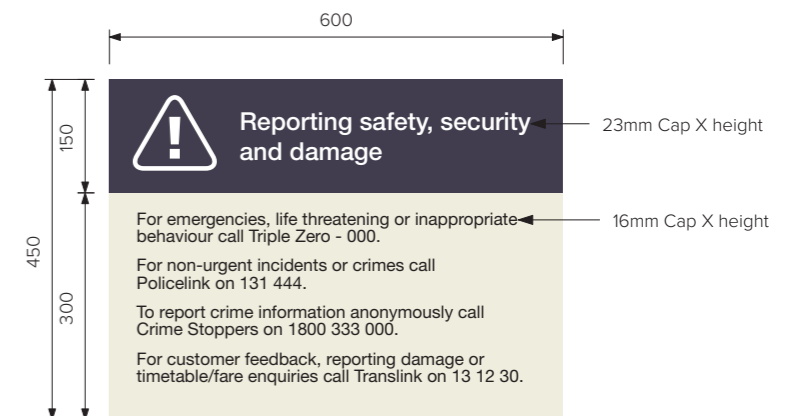
FI-5.9



FI-5.10



FI-5.21 (For facility entrances and main waiting areas)



FI-5.22 (For facility entrances and main waiting areas)

Typical Graphic Layouts

Scale 1:5

Graphic Layouts

Scale 1:10

Sign Type

**FI-5**

**Facility Sign**

Refer to page 4.16.1 for Construction details.

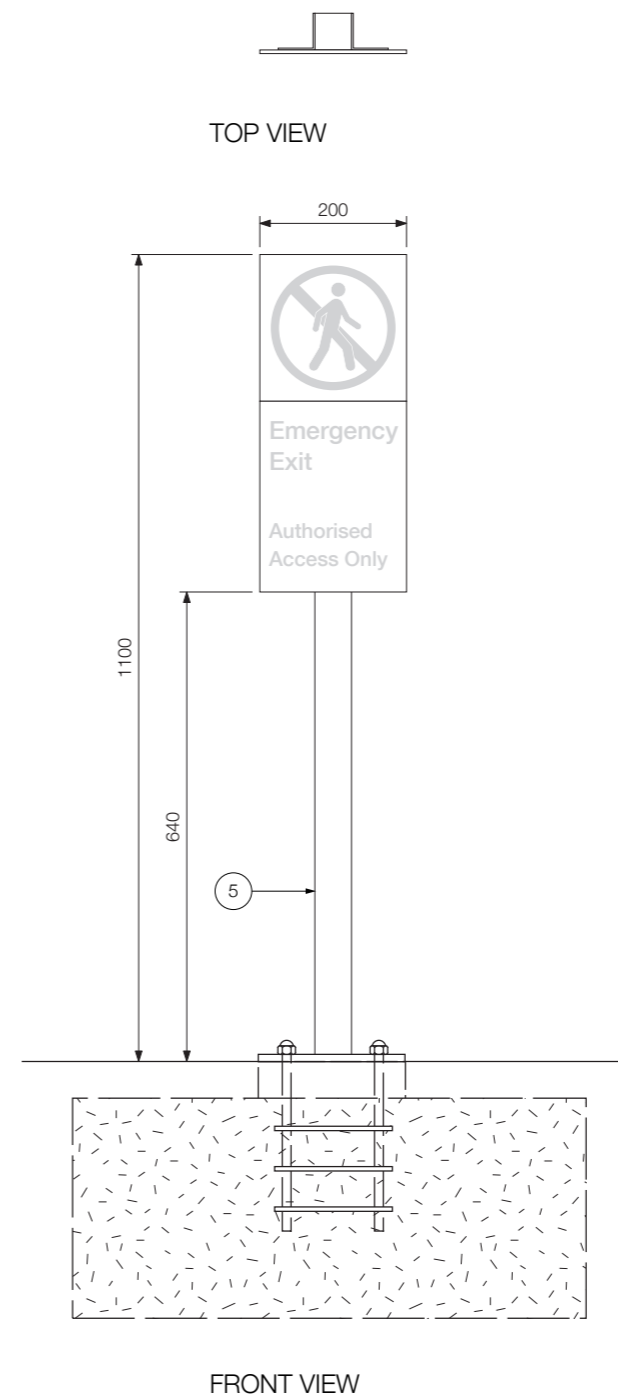
Refer to page 4.16.2 & 4.16.3 for Graphic details.



**Construction Detail – Wall mounted**  
Scale 1:5



**Construction Detail – Mesh fence mounted**  
Scale 1:5



**Construction Detail – Freestanding**  
Scale 1:10

Sign Type

**FI-5**

**Facility Sign**

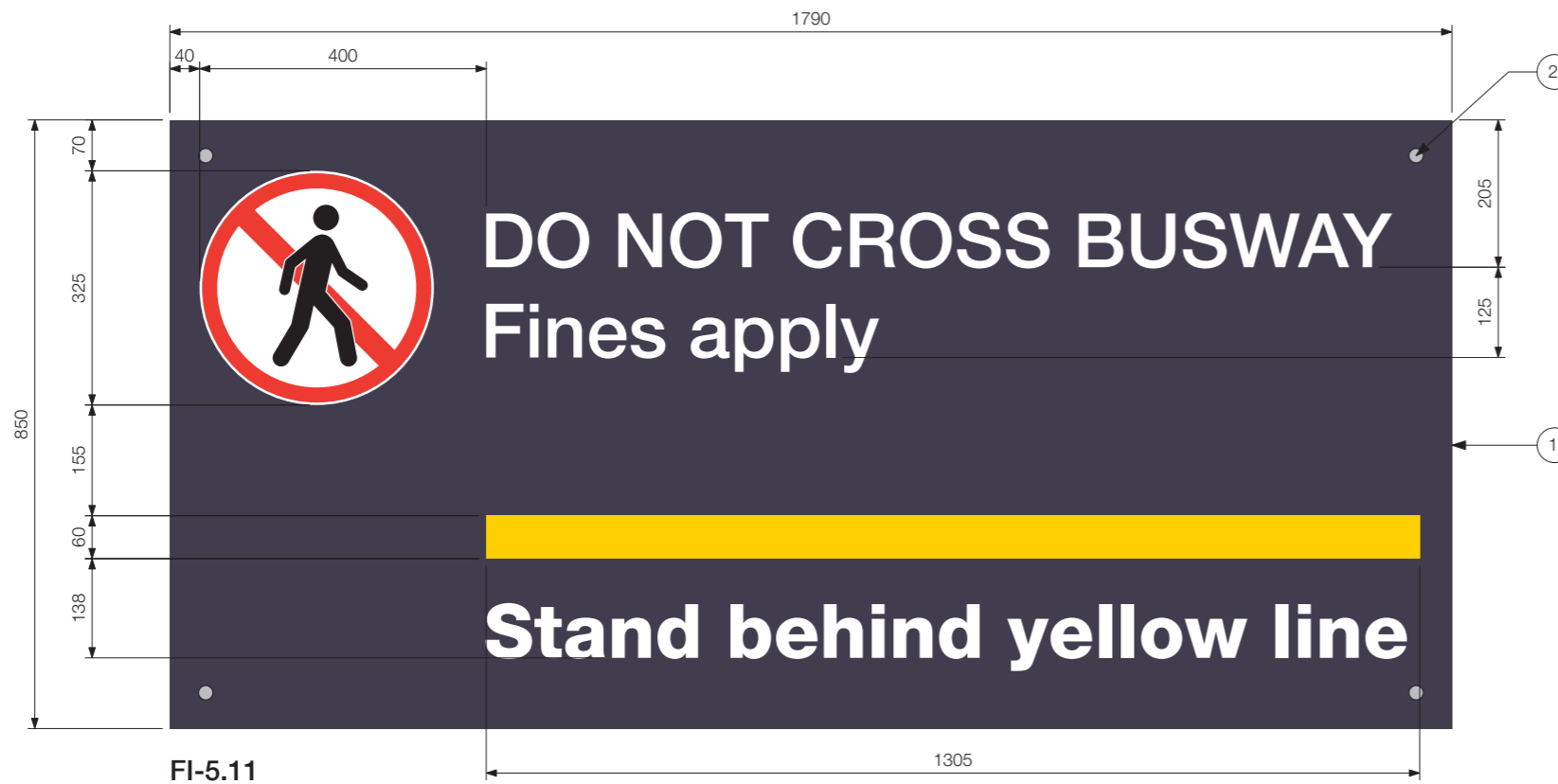
Refer to page 4.16.2 for Graphic details.

**Construction Details**

1. 2mm thick painted aluminium panel with front applied vinyl graphics. Protective anti-graffiti clear coat over. Fix panel to both sides of barrier fence as required to suit site conditions.

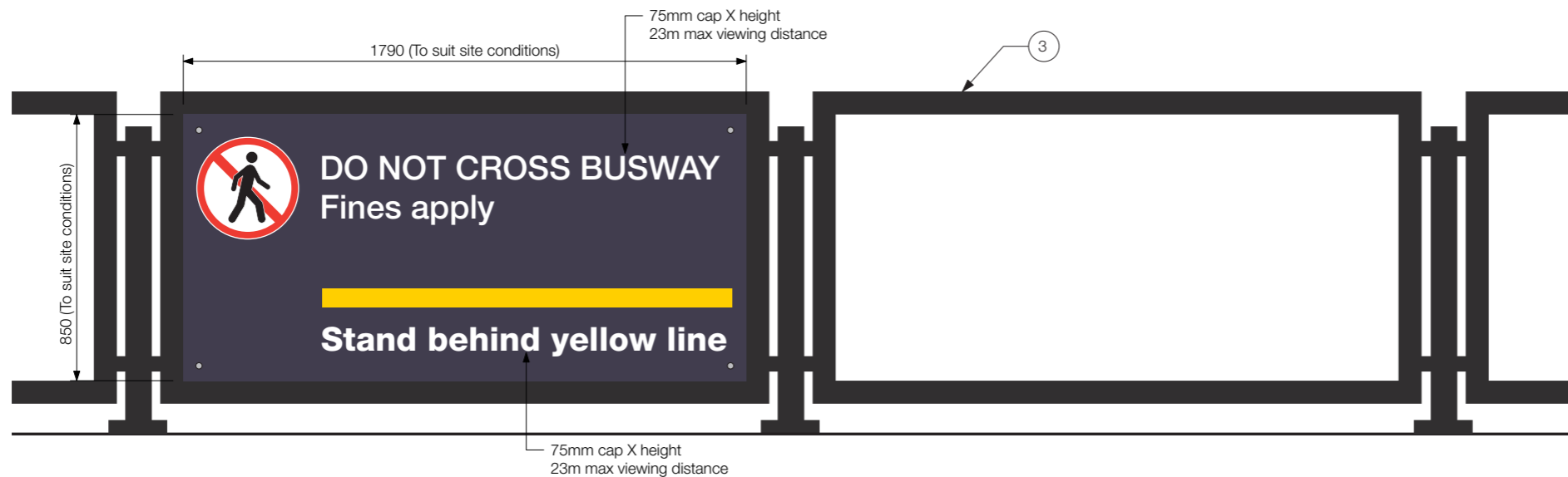
2. "Demon" fasteners painted to match sign face.

3. Barrier fence. Fix sign panel to perforated metal screen fence. Fixings to coordinate with pattern and border.



**Graphic Detail**

Scale 1:10



**Typical Elevation**

Scale 1:20

Sign Type

**FI-6a**

**Facility Identification Sign - Wall Mounted**

**Purpose**

- To identify the facility

**Typical location**

- Mounted above facility

**Indicative message**

- Pictograms  
 - Lift  
 - Journey planner  
 - Fare machine  
 - Bike enclosure

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

Text = 45mm cap X height  
 (Note: 40mm cap X height where required to 'Bicycle enclosure')  
 Pictogram = 225mm x 225mm

**COLOUR**

Panel = Resene 'Jon' N38-007-359  
 Text = Arlon White 02  
 Pictogram = Arlon White 02  
 Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

**Construction Details**

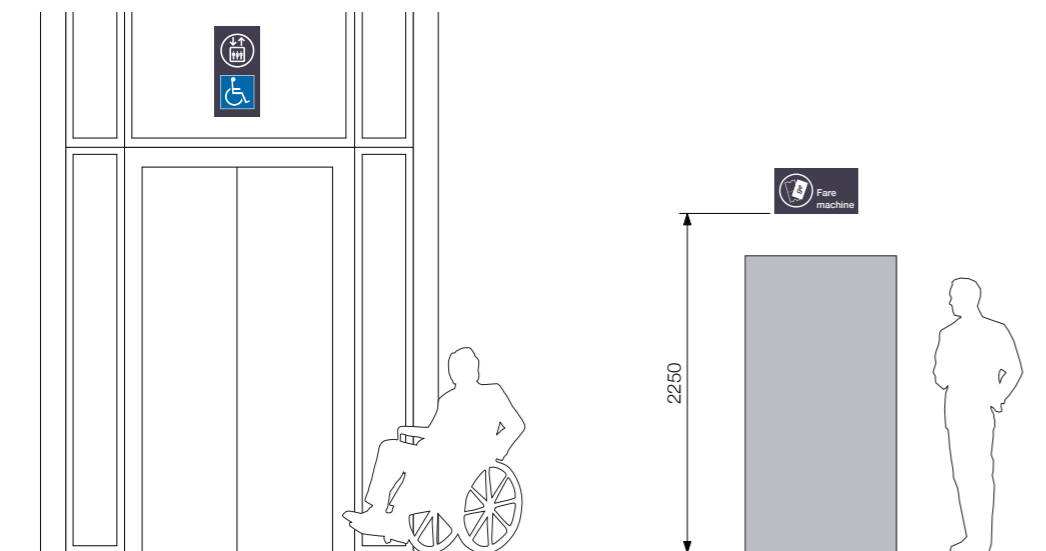
1. 2mm painted aluminium panel with front applied vinyl graphics. Protective anti-graffiti clear coat over. Adhered above door with 3M VHB double sided tape and silicone.
2. Mounting surface. Prepare surface free from dust, dirt, oil & grease prior to fixing.
3. Where signs are located in reach of a person, all exposed corners are to have 10mm radius for safety.

NOTE: Sign size may vary depending on location and required viewing distance.



**Graphic Layouts**

Scale 1:10



**Typical Location**

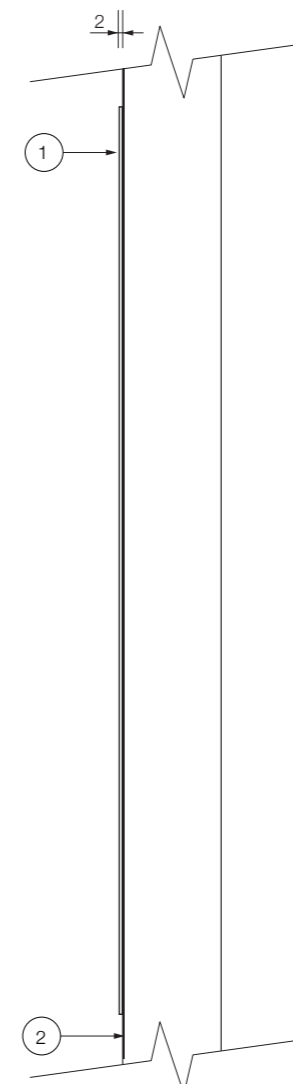
Scale 1:50



FRONT VIEW

**Elevations**

Scale 1:5



SIDE VIEW

Sign Type

**FI-6b**

**Facility Identification Sign - Projecting**

**Purpose**

- To identify the facility

**Typical location**

- Projecting above facility

**Indicative message**

- Pictograms  
- Lift  
- Journey planner  
- Fare machine  
- Bike enclosure

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

Text = 45mm cap X height  
(Note: 40mm cap X height where required to 'Bicycle enclosure')  
Pictogram = 225mm x 225mm

**COLOUR**

Panel = Resene 'Jon' N38-007-359  
Text = Arlon White 02  
Pictogram = Arlon White 02  
Access Pictogram = white figure on AS2700 B21 Ultramarine Blue background

**Construction Details**

1. 5mm thick painted aluminium sign panel with front applied vinyl graphics. Protective anti-graffiti spray clear coat over.  
2. 5mm aluminium mounting plate welded to sign panel. All welds to be concealed, regular and evenly spaced.

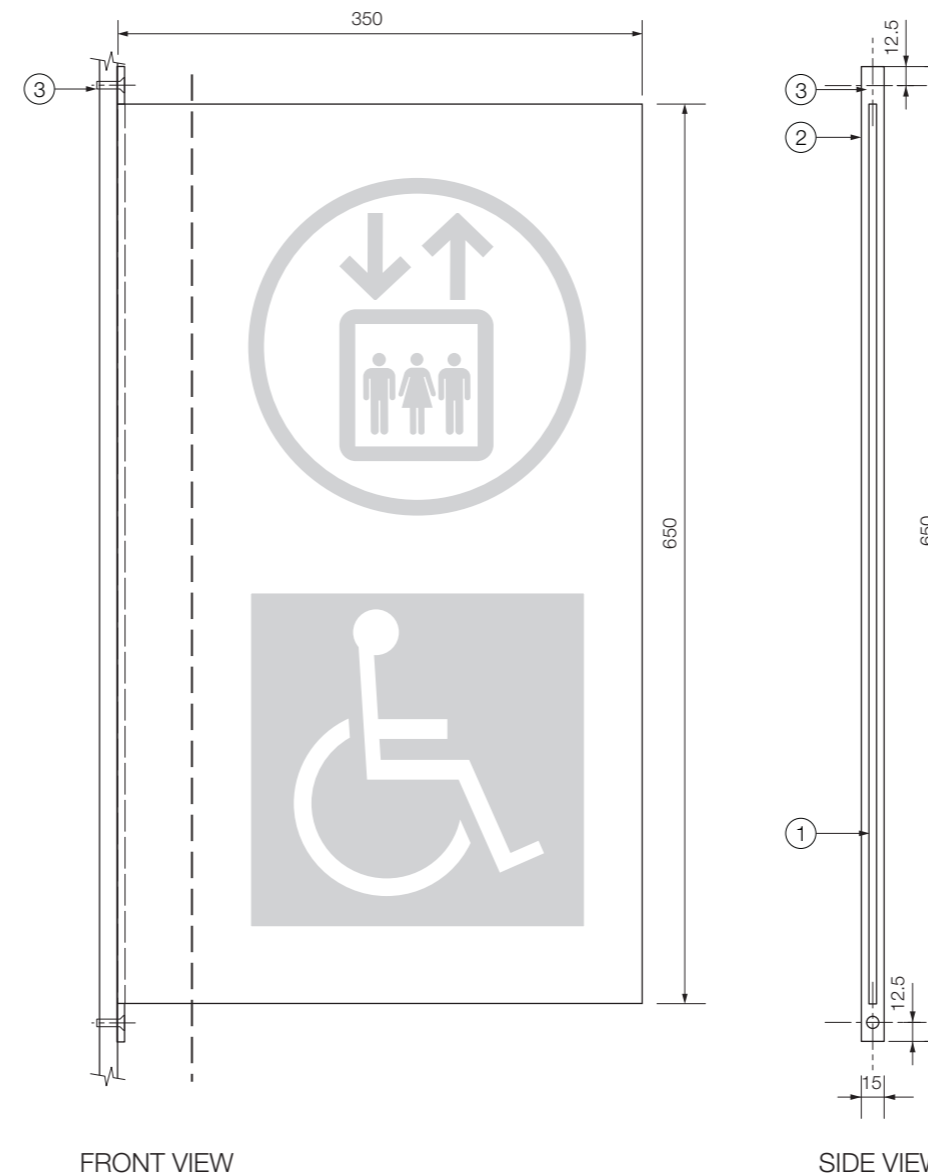
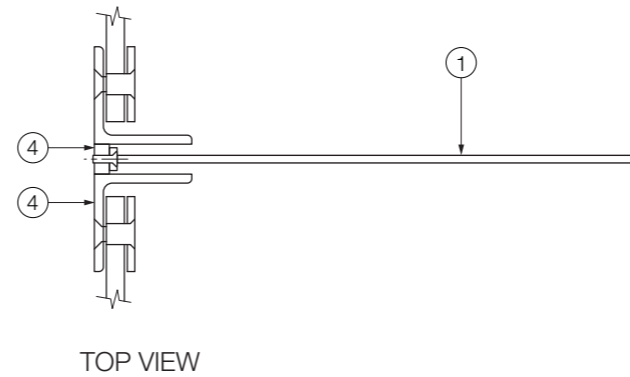
**FIXING METHOD**

3. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative.

4. Station structure.

5. Where signs are located in reach of a person, all exposed corners are to have 10mm radius for safety.

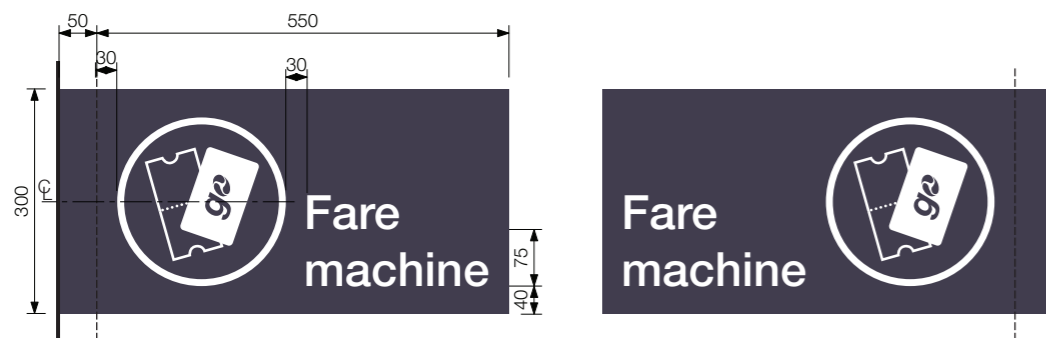
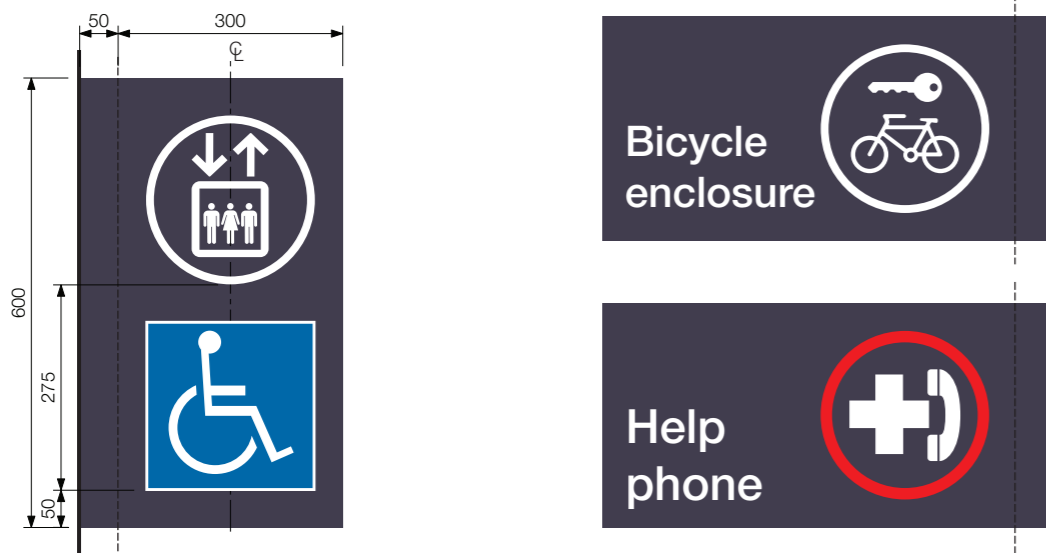
NOTE: Sign size may vary depending on location and required viewing distance.



FRONT VIEW

Construction Detail

Scale 1:5

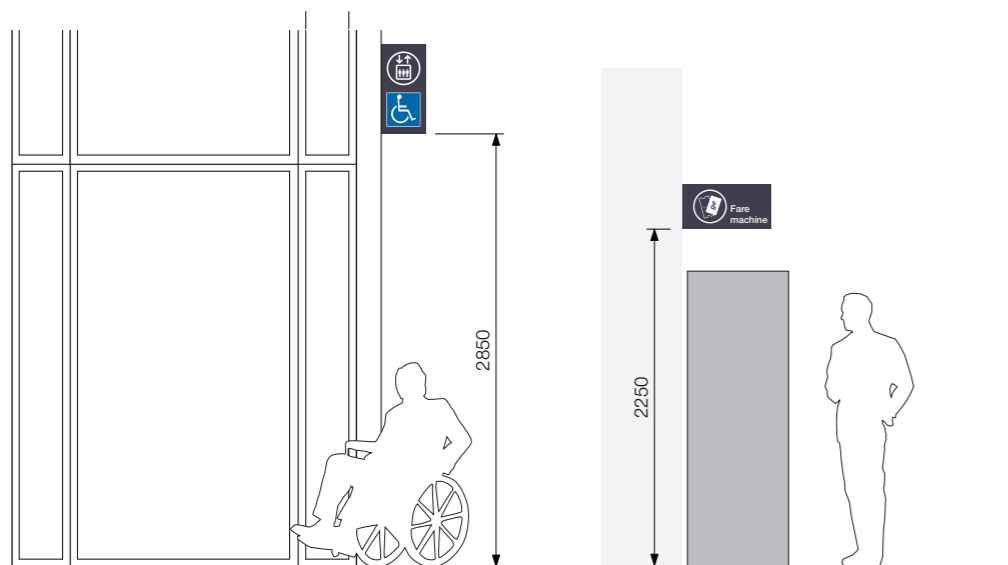


FRONT VIEW

BACK VIEW

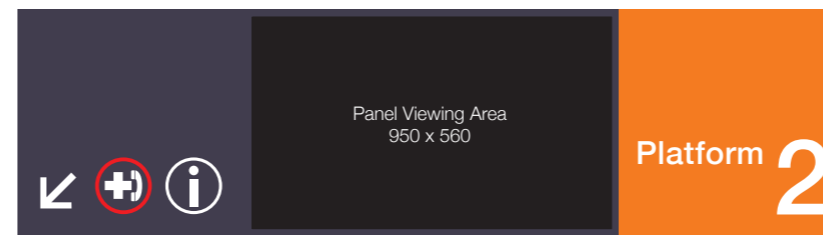
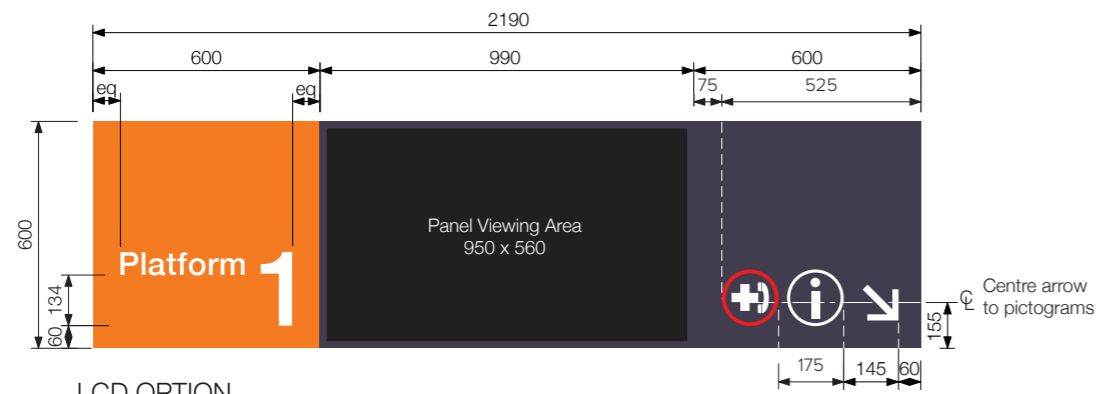
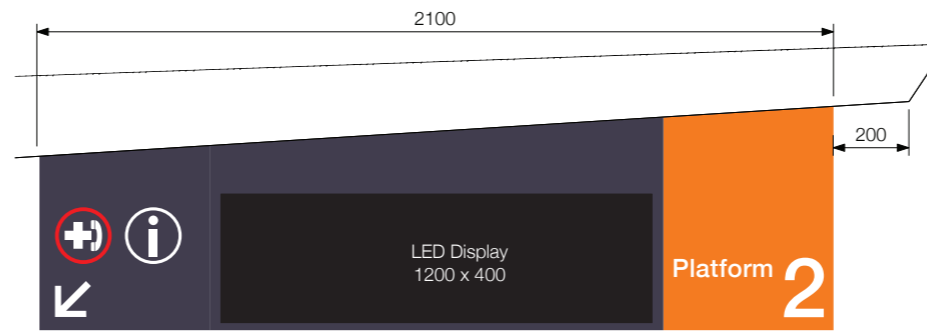
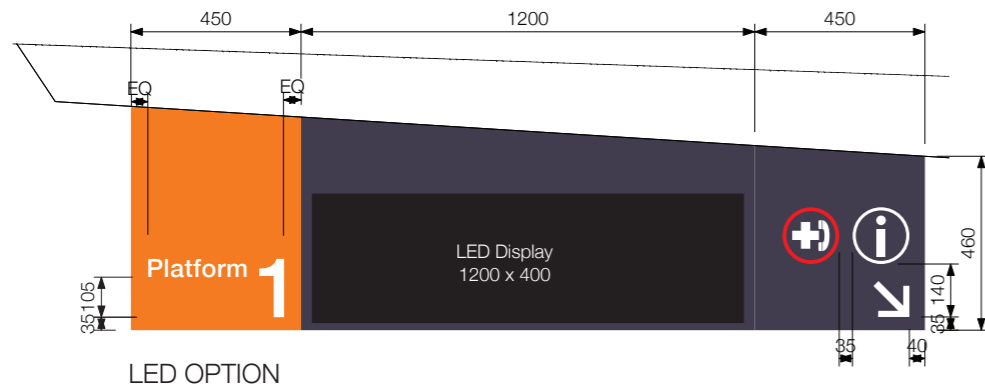
**Graphic Layouts**

Scale 1:10

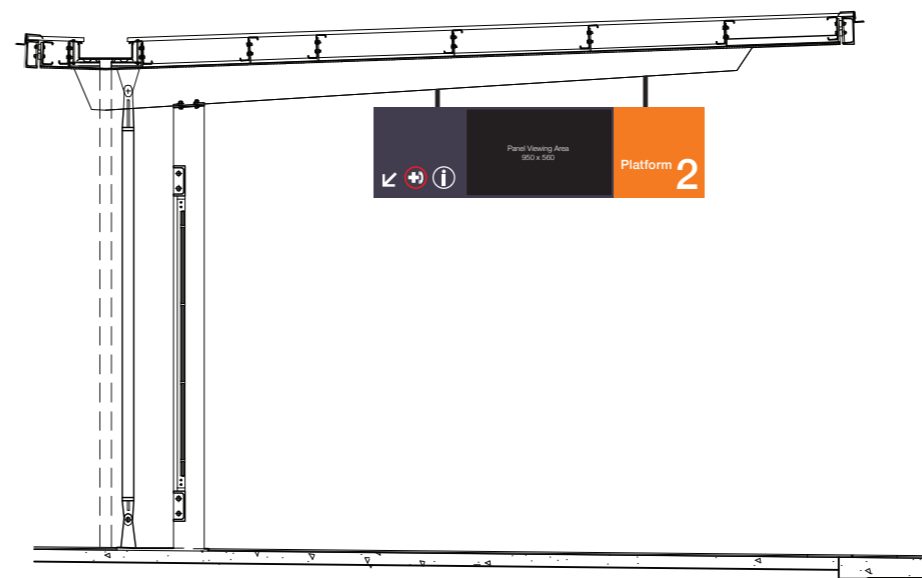
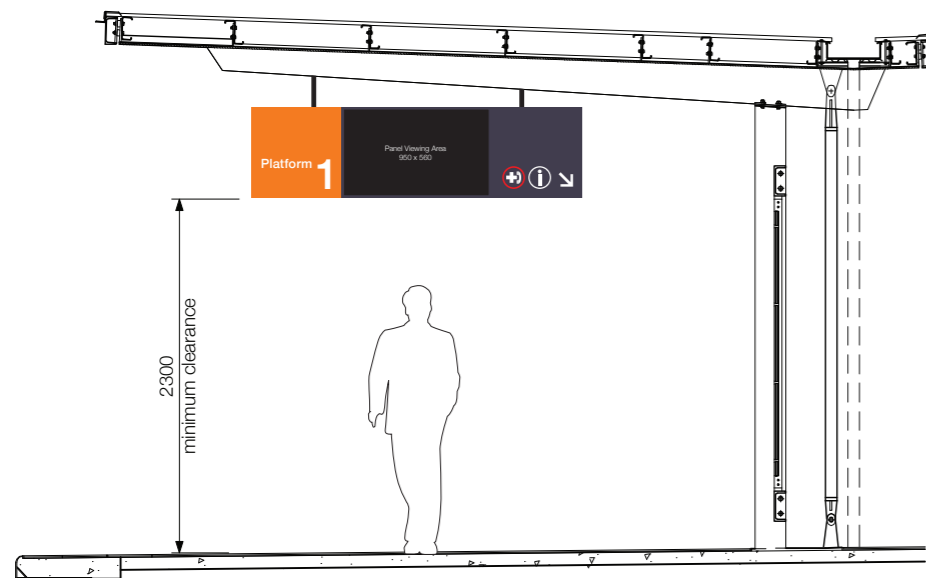


**Typical Locations**

Scale 1:50



Graphic Layout  
Scale 1:20



Typical Location  
Scale 1:50

Sign Type

**IS-4**

**Real Time Information Sign - Platform**

**Purpose**

- To provide identification and information on platform
- Pedestrian use

**Typical location**

- On real time sign on platform

**Indicative message**

- Platform
- Pictograms

**Graphics Detail**

**FONT**

'To...' = Helvetica Neue 55 Roman  
All other text = Helvetica Neue 65 Medium

**SIZE - LCD OPTION**

'Platform' = 60mm cap X height  
Number = 200mm cap X height  
Pictograms = 145mm x 145mm  
Arrows = 125mm high

**SIZE - LED OPTION**

'Platform' = 43mm cap X height  
Number = 157mm cap X height  
Pictograms = 145mm x 145mm  
Arrows = 125mm high

**COLOUR**

Platform background = Resene 'Trinidad' O61-167-048  
All other backgrounds = Resene 'Jon' N38-007-359  
All text = Arlon White 02  
Pictograms = Arlon White 02  
Arrows = Arlon White 02

**Construction Details**

1. Passenger Information Display (PID) frame to house electronic PID & Cabinet.
2. 3mm painted aluminium panel with front applied vinyl graphics. Protective anti-graffiti clear coat over.

Note - Samples of colour and finish must be provided by display supplier for approval prior to manufacturer

Sign Type

## IS-5

### Information Cabinet

**Purpose**

- To lockable external cabinets for TransLink information
- Pedestrian use

**Typical location**

- As required

**Indicative message**

- All timetables, maps, messages, printed material, etc to be provided by TransLink

**Graphics Detail**

COLOUR

Cabinet and front border = Resene 'Jon' N38-007-359

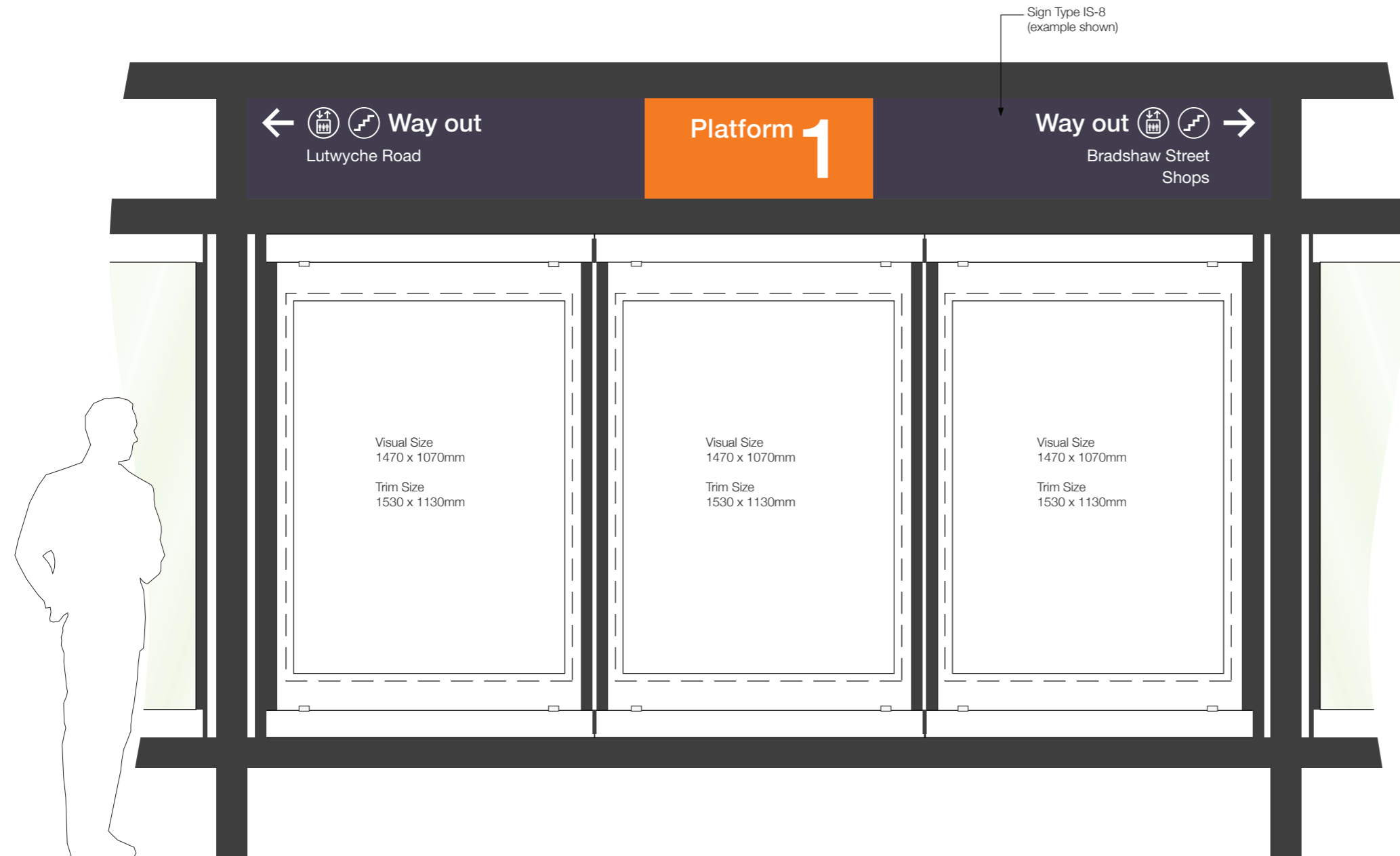
**Construction Details**

- Proprietary single sided edge lit illuminated sign case 'X-Position' XP05 (or approved equivalent). Powder coat finish to frame. 5mm toughened glass with reverse painted poster masking.
  - Internal illumination via 'Cool White' LED
  - Front applied security Gargard graffiti film over glass.
  - Gas strut to hold door open 60° max. (100 Newtons, 235mm Pivot distance)
  - keyed alike camlock latch to TransLink specifications
  - Hinged and weatherproof cabinet
  - Supplier to provide fixing details
  - Magnetic poster holder concealed behind masking
  - Overall sign case size 1251 x 1750mm
  - Glass retention brackets to top and bottom of panel, colour matched to sign structure

2. Timetables/information poster to be supplied by Translink.

3. Power feed to back of cabinet to run inside support structure and conduit.

NOTE: All dimensions approximate and are to be confirmed. Internal information sign requires isolation switch and circuit breaker / fuse within light box. Sign should operate during all hours of station operation.



**Typical Location**

Scale 1:20

Sign Type

### IS-6c

#### Map/Information Sign - Freestanding

##### Purpose

- To provide a map and information (if required) at major decision points
- Pedestrian use

##### Typical location

- Only used at bus stations
- Located at the principal pedestrian entry point/s of the station.
- Located in either TransLink or Other's property depending on site constraints. - Sign to be located outside required pedestrian paths of travel.

##### Indicative message

- All timetables, messages, printed material, etc to be provided by TransLink
- Regulatory information/pictograms (if required)

##### Graphics Detail

###### FONT

All text = Helvetica Neue 65 Medium

###### SIZE

All text = 55mm cap X height  
Information Pictogram = 110mm high

###### COLOUR

Sign structure and panel backgrounds = Resene 'Jon' N38-007-359  
Glazing masking = Resene 'Jon' N38-007-359  
All text = Arlon White 02  
Information pictogram = Arlon White 02

##### Construction Details

1. 75 x 75 x 3mm posts with mitred corners. Post to have 5mm min radius corners. Allow provision for power conduit. Prime and paint/powder coat finish. Satin finish (60% Gloss level).
2. Proprietary system 'X-Position' XP05 (or approved equivalent) single sided edge lit light box. Powder coat finish to frame. 5mm toughened glass with reverse painted poster masking and 'Information' graphics.
- Internal illumination via 'Cool White' LED
- Front applied security Gatgard graffiti film
- Mechanical latch in lieu of gas strut
- Glass retention brackets to top and bottom of panel, colour matched to sign structure

NOTE - Contact TransLink for preferred display unit supply

##### 3a. New footing (option a)

Reinforced concrete pad/pier footing to sign makers' specification. All fixings shall be below ground level to reduce trip hazards. Re-instate / make good paving or pavement, with no changes of level greater than 3mm and no gradients steeper than 1:40.

##### 3b. Fixing to slab (option b)

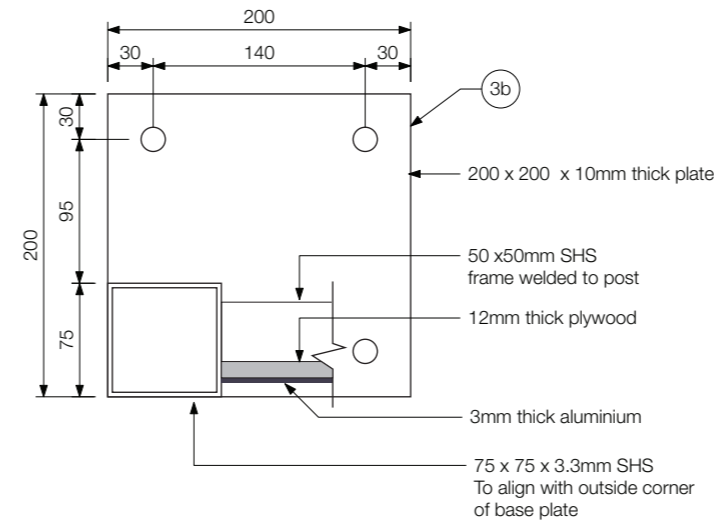
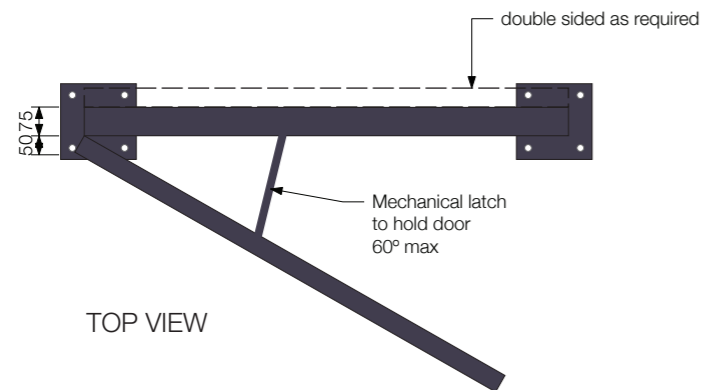
Base plate fixed to chemset sleeves in existing concrete slab via galvanised set screws. 2 pack paint finish to fixing heads.

NOTE: Fixings and footing to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with Managing Contractor / TransLink Representative

4. 3mm thick painted aluminium infill. 50 x 50 SHS horizontal support. Countersunk rivet fix infill panel to horizontal supports. Provide 12mm thick plywood stiffening. Infill required both sides only where visible.

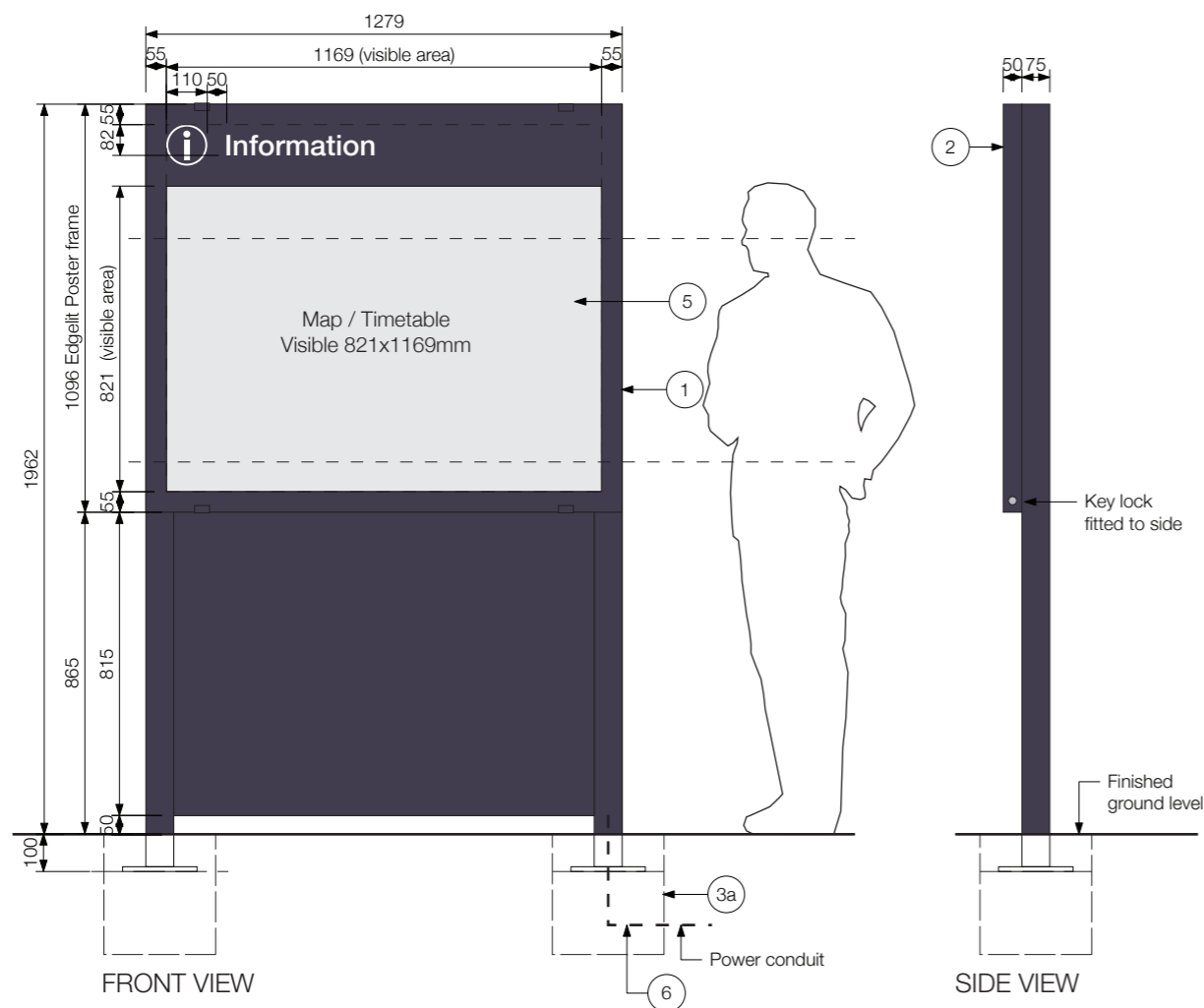
5. Printed insert supplied by TransLink. To suit A0 size (visible area = 821 x 1169mm).

6. Power supply. Internal illuminated sign requires isolation switch and circuit breaker / fuse within light box. Sign should operate during all hours of station operation.



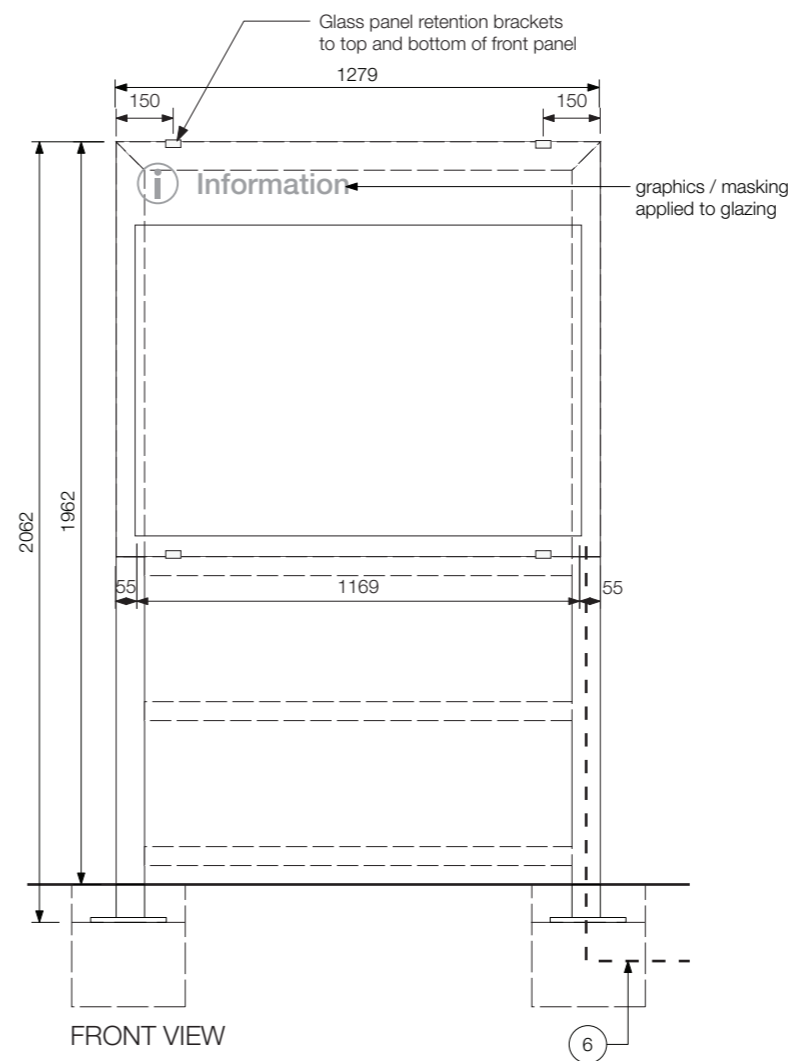
#### Base Plate Detail - To suit Above ground installation

Scale 1:5



#### Typical Elevation

Scale 1:20



#### Construction Details - New Footing

Scale 1:20



Sign Type

### IS-6d

#### Map/Information Sign - Wall mounted

##### Purpose

- To provide a map and information (if required) at major decision points
- Pedestrian use

##### Typical location

- Only used at bus stations
- Located at the principal pedestrian entry point/s of the station.
- Located in either TransLink or Other's property depending on site constraints. - Sign to be located outside required pedestrian paths of travel.

##### Indicative message

- All timetables, messages, printed material, etc to be provided by TransLink
- Regulatory information/pictograms (if required)

##### Graphics Detail

###### FONT

All text = Helvetica Neue 65 Medium

###### SIZE

All text = 55mm cap X height  
Information Pictogram = 110mm high

###### COLOUR

Sign structure and panel backgrounds = Resene 'Jon' N38-007-359  
Glazing masking = Resene 'Jon' N38-007-359  
All text = Arlon White 02  
Information pictogram = Arlon White 02

##### Construction Details

1. Proprietary system 'X-Position' XP05 (or approved equivalent) single sided edge lit light box. Powder coat finish to frame.
- 5mm toughened glass with reverse painted poster masking and 'Information' graphics.
- Internal illumination via 'Cool White' LED
- Front applied security Gargard graffiti film
- Mechanical latch in lieu of gas strut
- Glass retention brackets to top and bottom of panel, colour matched to sign structure

NOTE - Contact TransLink for preferred display unit supply

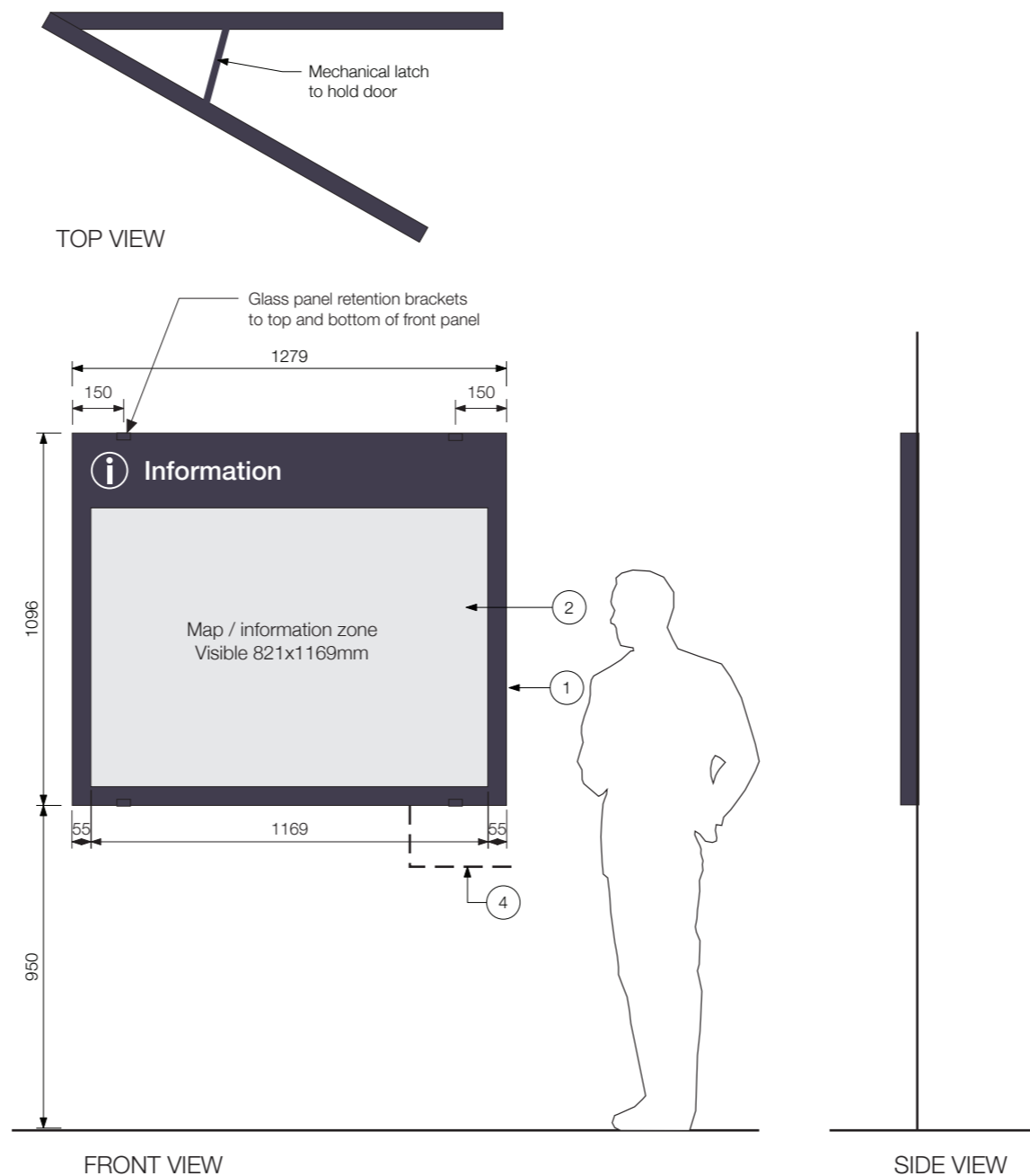
2. Printed insert supplied by TransLink. To suit A0 size (visible area = 821 x 1169mm).

3. Fixings to be designed and approved by signmaker's engineer. Signmaker to coordinate fixing requirements with TransLink.

4. Power supply from wall cavity.

##### NOTE

Internal illuminated sign requires isolation switch and circuit breaker / fuse within light box. Sign should operate during all hours of station operation.



#### Typical Elevation

Scale 1:20

Sign Type

**IS-7**

**Bus Stop Sign - Under Awning**

**Purpose**

- To identify lead stop
- For pedestrian and vehicular (bus operator) use

**Typical location**

- At lead stop end of platform

**Indicative message**

- Bus stop Hail driver
- Pictogram
- Zone number

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

- 'Depart' = 60mm cap X height
- All other text = 30mm cap X height
- Pictogram = 200mm high (proportional width)
- Arrow = 120mm high (proportional width)

**COLOUR**

- Panel background = Resene 'Trinidad' O61-167-048
- All text = Arlon White 02
- Pictogram = Arlon White 02

**Construction Details**

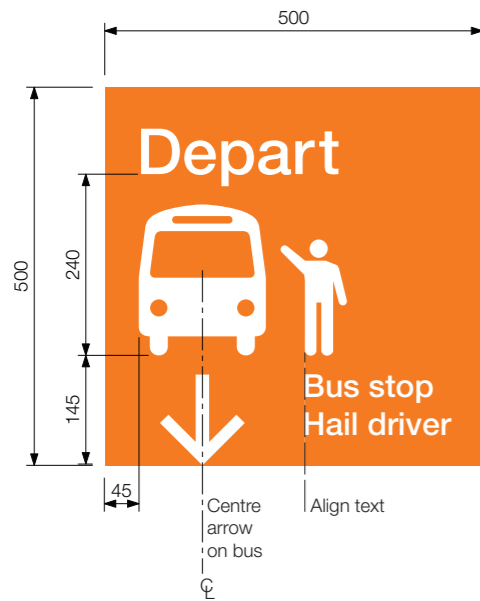
1. Fabricated sign panel from 3mm thick aluminium. Double sided VHB tape fixed to sign frame. Front applied vinyl graphics with anti-graffiti spray clear coat over.
2. Internal frame constructed from 50 x 50 x 3mm aluminium SHS. To take 40 x 40 SHS sleeve support.
3. 40 x 40mm aluminium SHS sign support sleeve with 6mm thick base plate fixed to roof beam. Structural framework and fixing details to be confirmed by sign maker's engineer. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.

**NOTE**

Location to be coordinated with roof structure.

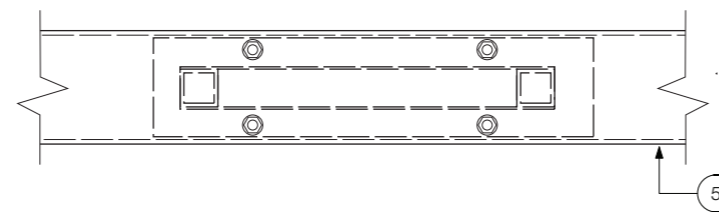
4. M8 S/Steel countersunk bolt fixing through internal frame.

5. Station structure.

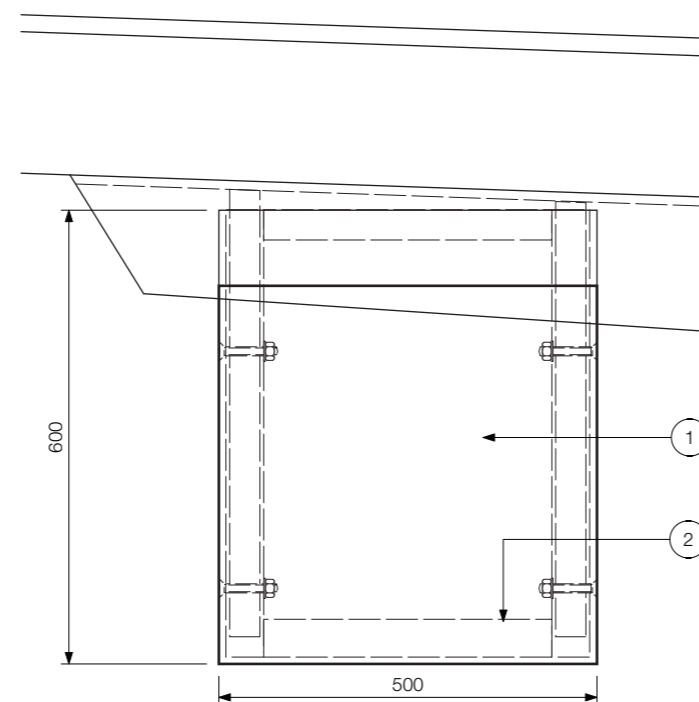


**Graphic Layout**

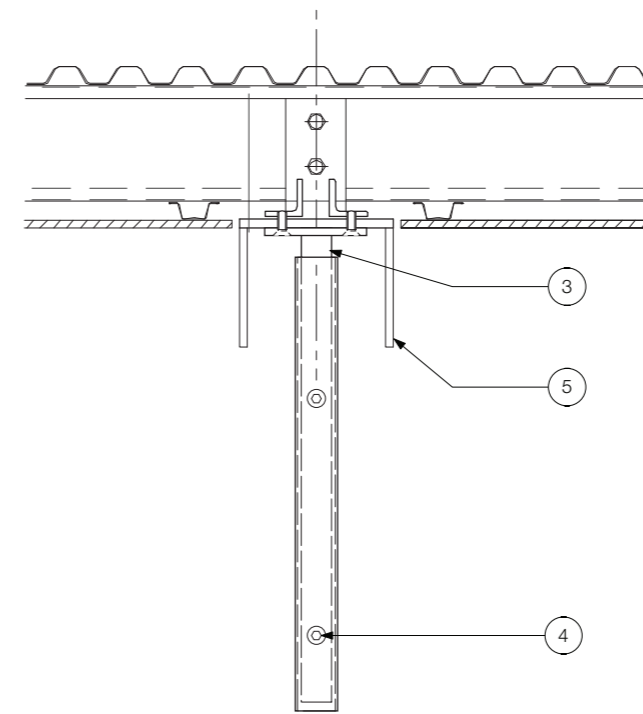
Scale 1:10



TOP VIEW



FRONT VIEW



SIDE VIEW



**Typical Location**

Scale 1:50

**Construction Details**

Scale 1:10

Sign Type

### IS-8

#### Information Sign

##### Purpose

- To provide information at concourse and platform
- Pedestrian use

##### Typical location

- Located on station structure, typically above information cabinets

##### Indicative message

- Platform information
- Regulatory information/pictograms
- Way out information

##### Graphics Detail

###### FONT

- 'To..' = Helvetica Neue 55 Roman
- Sub-messages = Helvetica Neue 55 Roman
- All other text = Helvetica Neue 65 Medium

###### SIZE

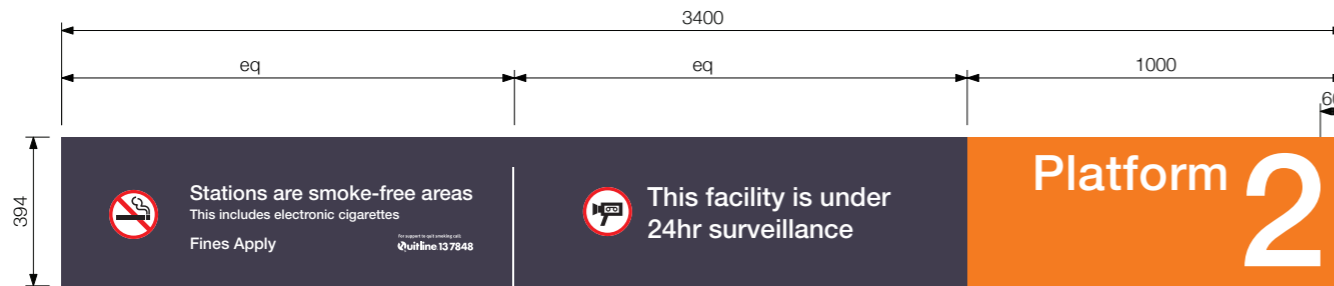
- Concourse Layout
- 'Platform' = 92mm cap X height
- Platform number = 300mm cap X height
- 'To City/From City' = 63mm cap X height
- All other text = 50mm cap X height
- Pictogram = 130mm x 130mm

###### Platform Layout

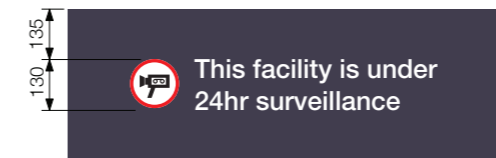
- 'Platform' = 72mm cap X height
- Platform number = 235mm cap X height
- 'To City/From City' = 42mm cap X height
- All other text = 46mm cap X height
- Circle pictograms = 125mm x 125mm
- Train pictogram = 70mm height (proportional width)
- Arrow = 125mm

###### COLOUR

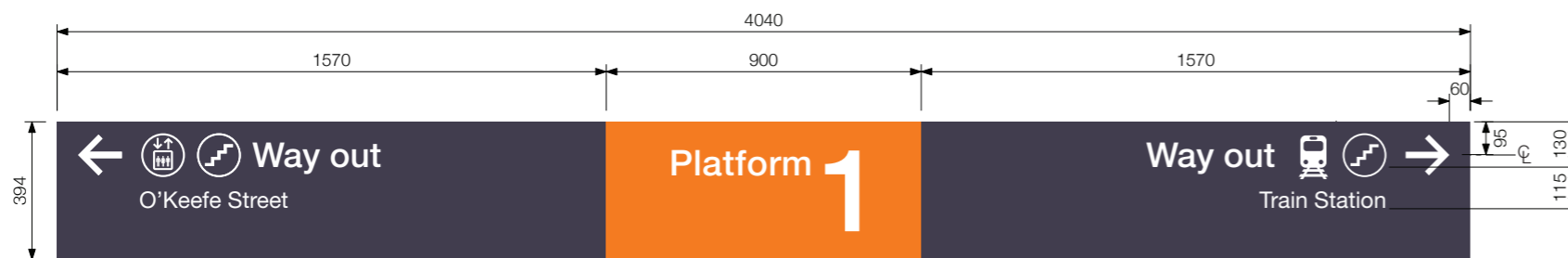
- Transport panel = Resene 'Trinidad' O61-167-04
- Other panels = Resene 'Jon' N38-007-359
- Text = Arlon White 02
- 'No Smoking' & CCTV pictograms = Black figure on white background with AS2700 Signal Red circle and slash
- All other pictograms = Arlon White 02



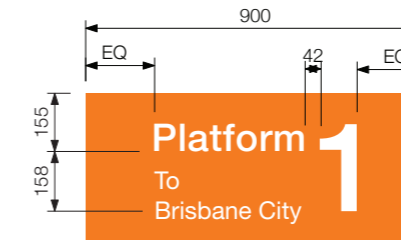
CONCOURSE



Panel layout



PLATFORM



Middle panel layout

### Graphic Layouts

Scale 1:20



CONCOURSE

PLATFORM

### Typical Location

Scale 1:50

Sign Type

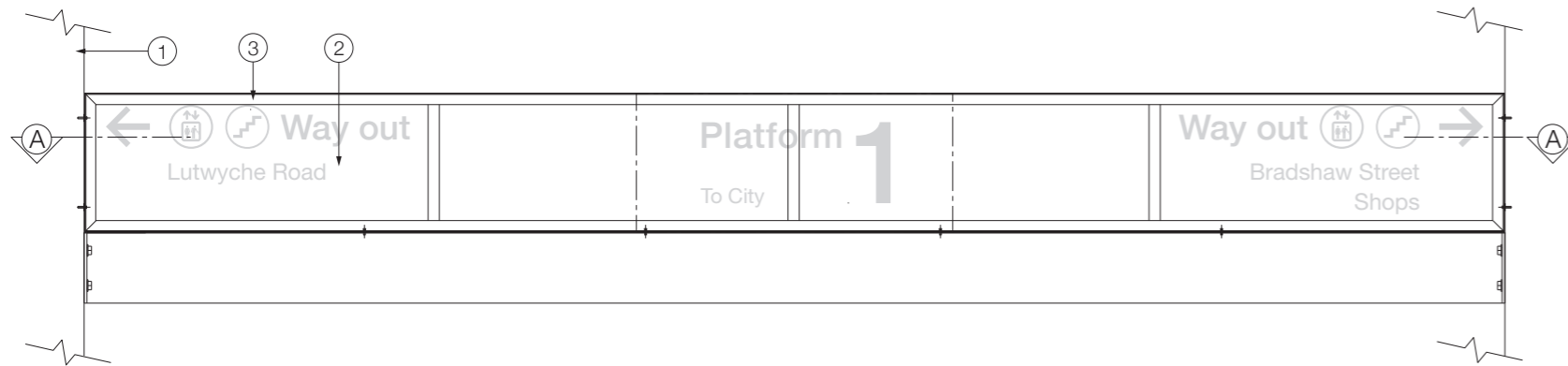
## IS-8

### Information Sign

#### Construction Details

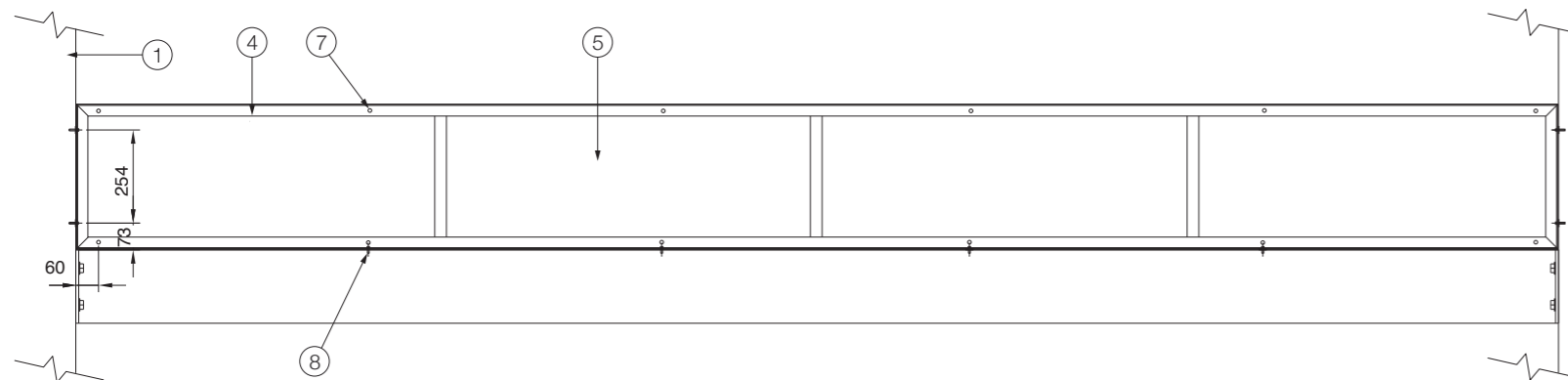
##### HEADER SIGN PANEL

1. Station structure.
2. 3mm aluminium front sign panel (4047 x 395mm). Front applied vinyl graphics with anti-graffiti spray clear coat over. Signmaker to confirm final size with Managing Contractor / TransLink Representative.
3. 35 x 35 x 3mm aluminium angle sign frame, welded to back of front sign panel. Angle fastened to station entry plaza structure from behind. No visible fixings.
4. 35 x 35 x 3mm aluminium angle rear panel frame fastened to station entry plaza structure.
5. 3mm aluminium rear panel (4047 x 395mm) fastened to rear panel frame. Signmaker to confirm final size with Managing Contractor / TransLink Representative.
6. Stainless steel spacer.
7. M8 stainless steel counter-sunk socket machine screw (into pre-drilled and tapped aluminium rear panel frame).
8. M8 stainless steel machine screw (into pre-drilled and tapped station structure).
9. 60 x 32 x 3mm aluminium channel sign frame (for CHS Platform Structure only), welded to back of front sign panel. Channel fastened to station platform structure. No visible fixings.
10. 60 x 32 x 3mm aluminium channel vertical supports welded to frame (for CHS Platform Structure only).



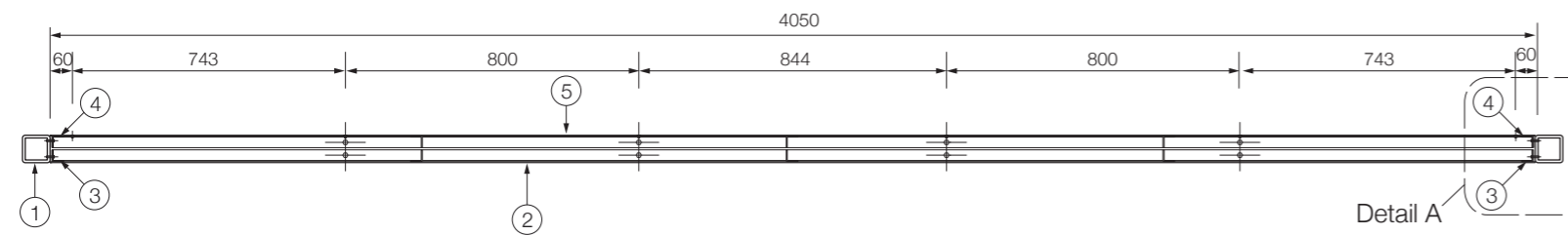
**Header - Front Elevation**

Scale 1:20



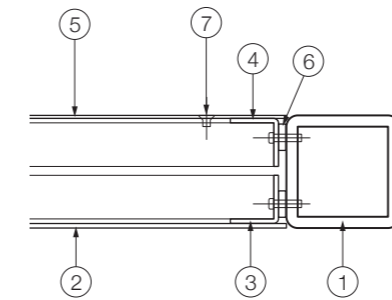
**Header - Rear Elevation**

Scale 1:20



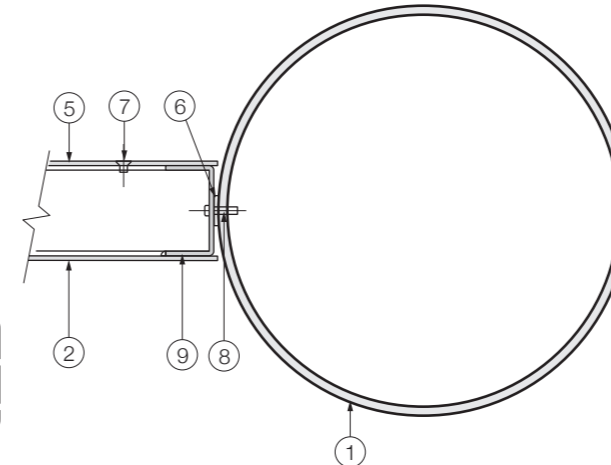
**Section A-A - Entry Plaza**

Scale 1:20



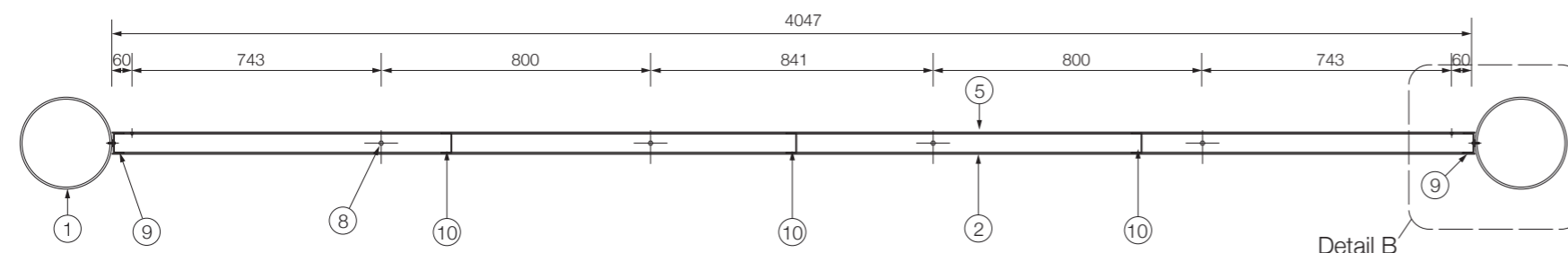
**Detail A - Entry Plaza Structure**

Scale 1:5



**Detail B - Platform Structure**

Scale 1:5



**Section A-A - Platform**

Scale 1:20

Sign Type

**IS-9c**

**Real Time Information Sign - Non Platform**

**Purpose**

- To provide identification and information with real time display
- Pedestrian use

**Typical location**

- On real time sign (not on platform)

**Indicative message**

- Platform
- Pictograms

**Graphics Detail**

**FONT**

All text = Helvetica Neue 66 Medium Italic

**SIZE**

All text = 65mm cap X height  
Pictogram = 220mm high

**COLOUR**

Platform background = Resene 'Trinidad' O61-167-048

All other backgrounds = Resene 'Jon' N38-007-359

All text = Arlon White 02

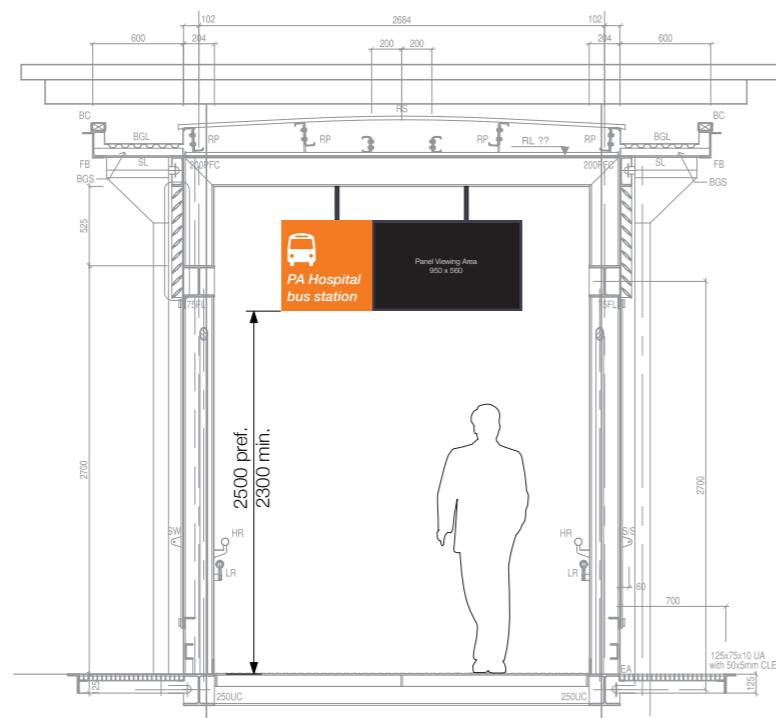
Pictogram = Arlon White 02

**Construction Details**

1. Passenger Information Display (PID) frame to house electronic PID & Cabinet.

2. 3mm painted aluminium panel with front applied vinyl graphics. Protective anti-graffiti clear coat over.

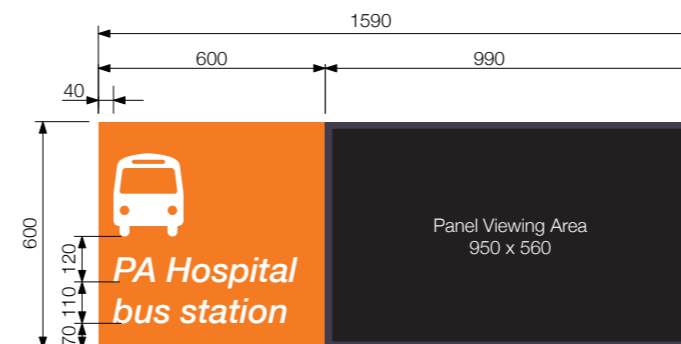
Note - Samples of colour and finish must be provided by display supplier for approval prior to manufacturer



FRONT VIEW

**Typical Location**

Scale 1:50



**Graphic Layout**

Scale 1:20

Sign Type

## IS-10a

### Bus Stop Blade Sign

**Purpose**

- To identify bus stop (typically 'premium' stops and at stations)
- For pedestrian and vehicular use

**Typical location**

- At departure end of bus bay zone
- Not used at busway stations

**Indicative message**

- Stop name
- Bus route details

**Graphics Detail**

**FONT**

All text = Helvetica Neue 55 Roman  
Translink logo, website and phone number to brand guidelines

**SIZE**

All text = as shown for cap X height

**COLOUR**

Blue background = To match Pantone 533C printed over white Class 2 Reflective sheeting  
Blue logo tint = To match Pantone 533C with 70% tint printed over white Class 2 Reflective sheeting  
Pink = Logo symbol to match Pantone 2038 C printed over white Class 2 Reflective sheeting  
White = White Class 2 Reflective sheeting  
Yellow = Yellow Class 2 Reflective vinyl

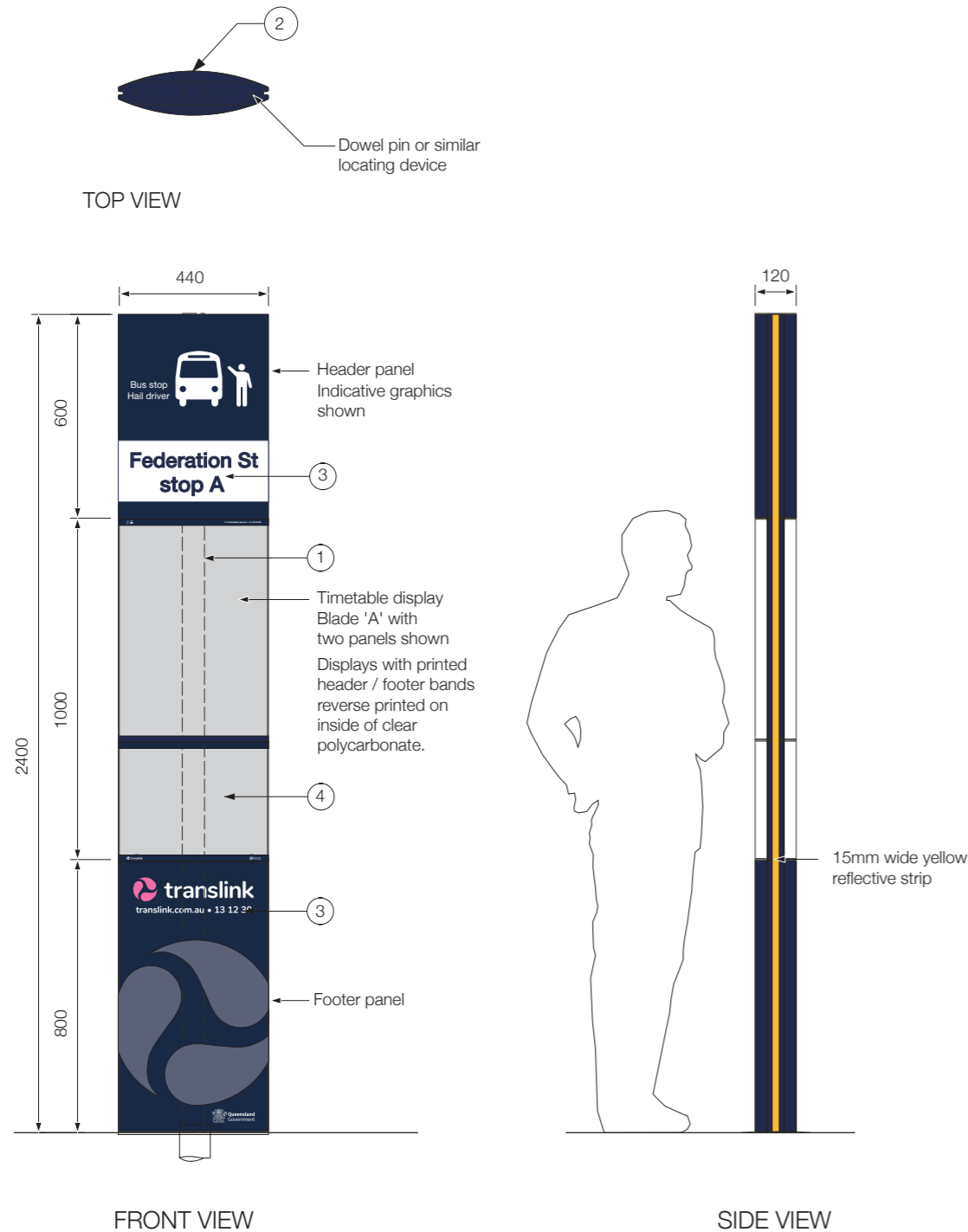
**General Note**

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

**Construction Details**

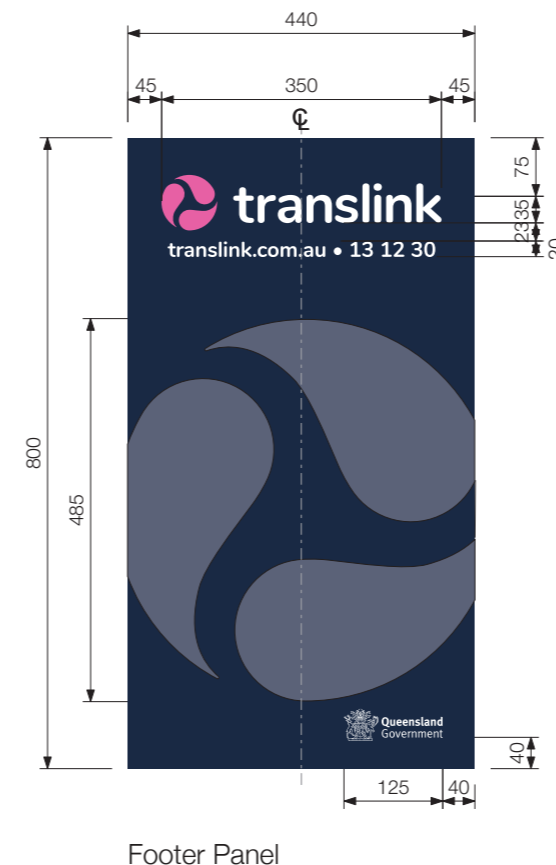
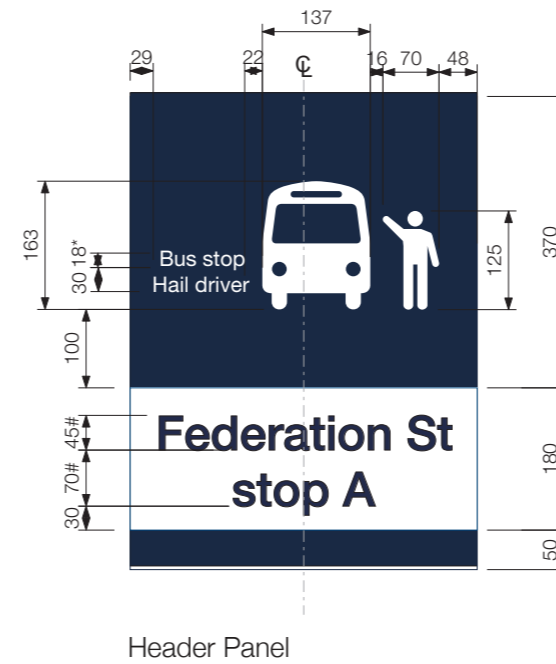
1. Post  
65 NB steel post, C 350 grade, 3.2mm wall thickness, hot dip galvanised, deform base to prevent rotation.
2. Curved display extrusion - CIVIQ or approved equivalent.
3. Header and Footer panels  
Sign to be on a 1.0mm thick aluminium plate, single sided. Applied to both sides of sign. Class 2 reflective vinyl with applied graphics applied to both sides of sign.
4. Timetable Display options  
Blade "A"  
440 x 2400 (with two central panels 650mm high x 440mm wide above and 350mm high x 440mm wide below)  
  
Blade "B"  
440 x 2400 (with one central panel 1000mm high x 440mm wide).
5. Sign maker to co-ordinate installation with Managing Contractor / TransLink Representative.
6. Refer to 4.26.2 for installation details.

NOTE - Graphics shown indicative only.



**Typical Location**

Scale 1:20



**Graphic Layout**

Scale 1:10

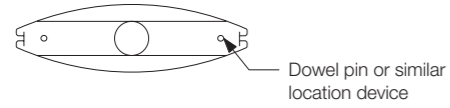
Sign Type

**IS-10a**

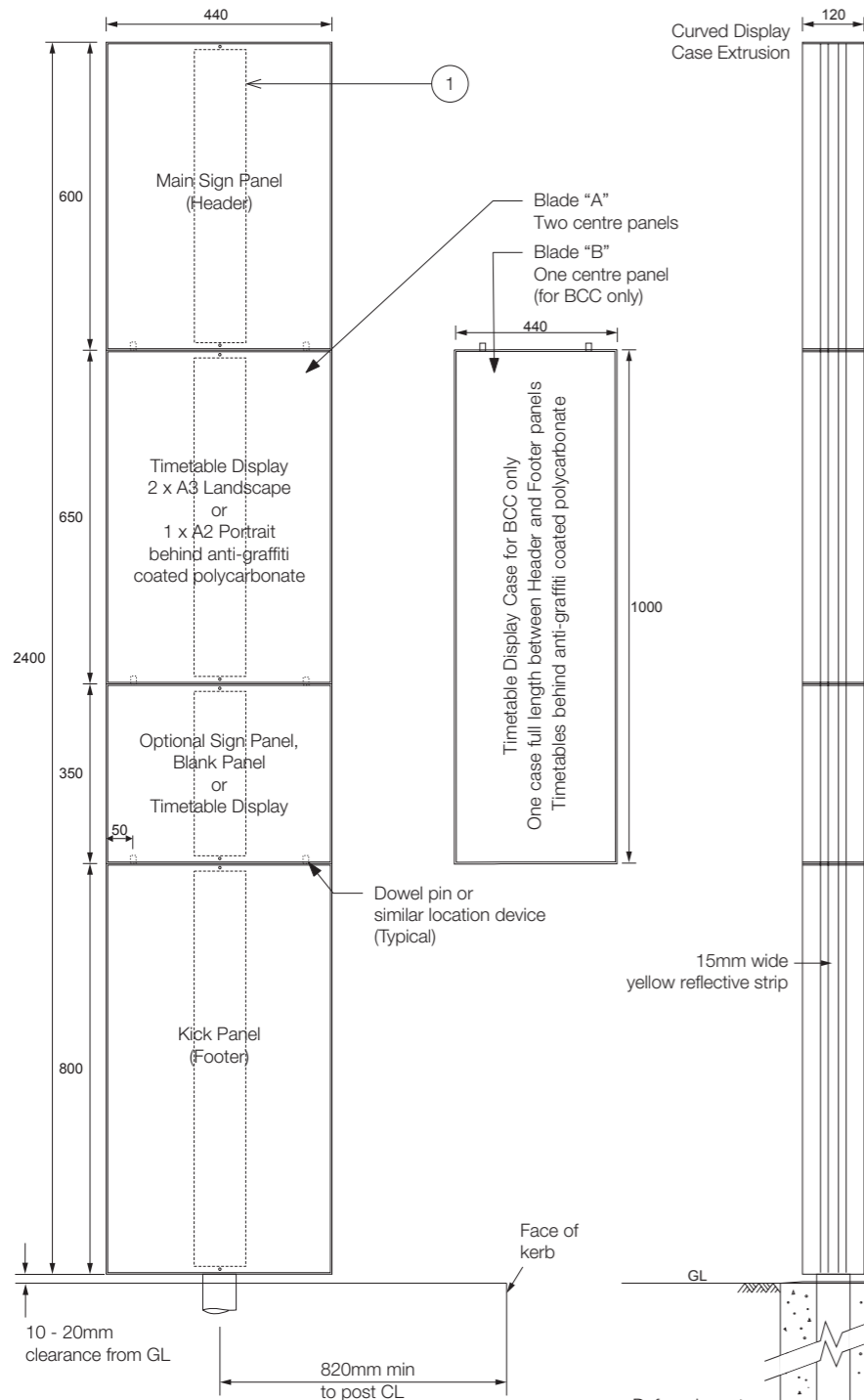
Bus Stop - Blade Sign

**NOTE**

Refer to page 4.26.1 for Construction and Graphic details.



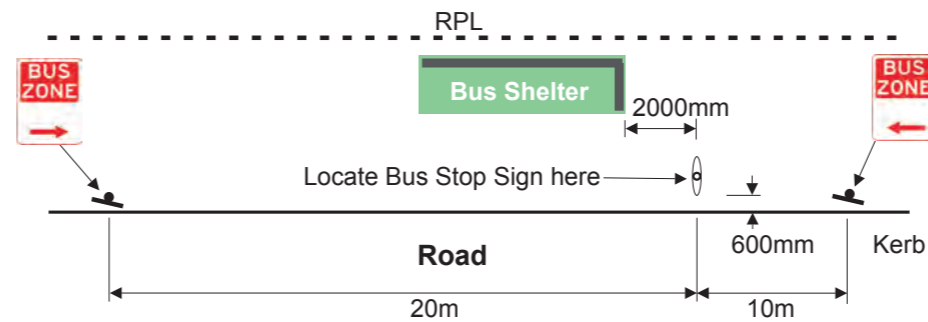
TOP VIEW



FRONT VIEW

**Typical Elevation**

Scale 1:20



**NOTE:**

The sign should be located at the departure end of the bus stop and perpendicular to the traffic lane or kerb. On kerbed roads, a clearance of 600mm minimum (820mm to post CL) is required from face of kerb to sign.

**Location Plan**

NTS

Sign Type

## IS-10b

### Bus Stop - J Pole Sign (Translink)

**Purpose**

- To identify bus stop (typically 'intermediate' stops)
- For pedestrian and vehicular use

**Typical location**

- The sign should be located at the departure end of the bus stop and perpendicular to the traffic lane.
- The post should be closest to the road and the sign away from the road ie. point away from the road.

**Indicative message**

- Stop name
- Service provider logo

**Graphics Detail**

**FONT**

All text = Helvetica Neue 55 Roman  
Translink logo, website and phone number to brand guidelines

**SIZE**

All text = as shown for cap X height  
'bus stop hail driver' = 20 mm - white text on blue

'stop name and number'

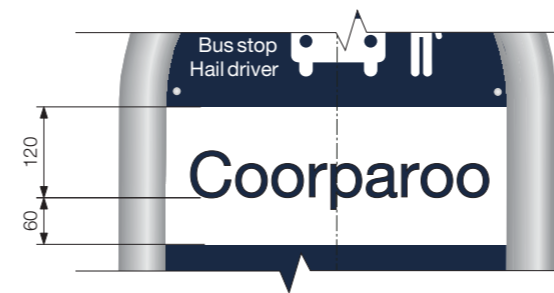
60 mm = blue text on white (where applicable the words 'bus stop' all lower case)

**COLOUR**

Blue background = To match Pantone 533C printed over white Class 2 Reflective sheeting  
Pink = Logo symbol to match Pantone 2038 C printed over white Class 2 Reflective sheeting  
White = White Class 2 Reflective (3M Scotchlite)

**Graphic Details**

1. The logo symbol should appear in colour as per above with remaining text in single colour (white) with the background of predominately blue.
2. The Stop Name and Number must be centered between the left and right hand sides of the sign face. Where there is an existing stop number, the number should be displayed in the same typeface and height at the end of the stop name with a space dash space between name and number. Text typeface to be 'Helvetica 55 Roman' with a cap height of 60mm, for long text compress spacing. In certain circumstances the cap height may be reduced to fit a long stop name. Where there is no stop name, the words bus stop in all lower case should be used.



Graphic Layout - Scale 1:5

Variable Elements - single line



Sign Type

## IS-10b

### Bus Stop - J Pole Sign (Translink)

#### General Notes

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

Note: Colours on this page may differ in appearance from those selected in artwork for final output.

Refer to page 4.27.1 for graphic details notes.

#### Construction Details

##### 1. Post:

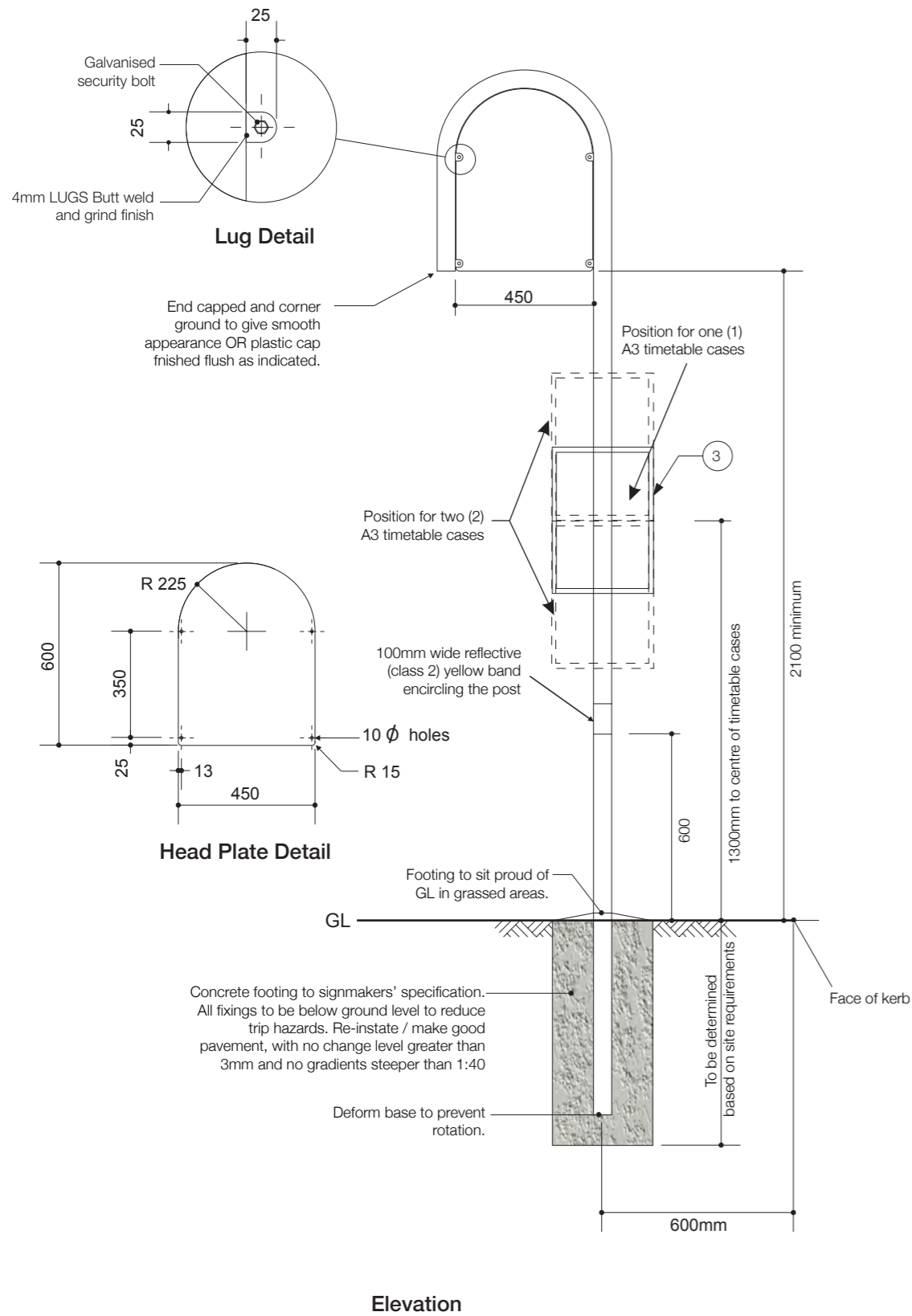
Materials: 50NB steel post, C350 grade, 2.9mm wall thickness, deformed base to prevent rotation. Spot weld 4 steel lugs to inside edge of curve to support head plate.

Finishes: Post hot dip galvanised and powder-coated in white (PMS White). It should have a 100mm wide yellow engineers grade vinyl band to encircle the post 600mm from GL.

##### 2. Sign Plate:

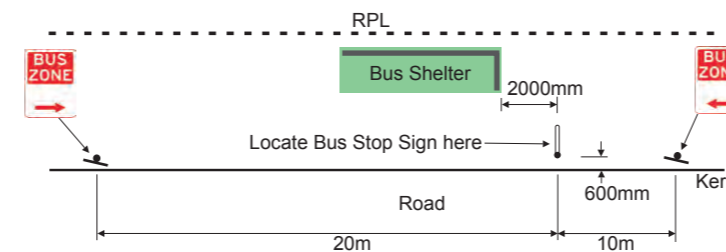
Materials: The head plate should be made from 1.6mm aluminium. Finishes: The head plate should be double sided and made of reflective material to a Class 2 standard. All bus stop signage and graphics to be printed on Class 2 reflective material with UV stable (non-yellowing) long life anti-graffiti capabilities, and to match the nominated signage manual reflective colours. All graphics to be printed on reflective stock (pre-cut material is not acceptable). An over coat of anti-graffiti (film or finish) is to be applied to seal sign.

##### 3. Refer to A3 timetable cases for details.



#### NOTE:

- The sign should be located at the departure end of the bus stop and perpendicular to the traffic lane.
- The post should be closest to the road and the sign away from the road.
- On kerbed roads, sign should be located 600mm back from the face of the kerb. Where mountable or semi mountable kerbs are used, the clearance should be 600mm from top of kerb. On unkerbed roads, signs should be 600mm clear of the outer edge of the shoulder.



#### Location Plan

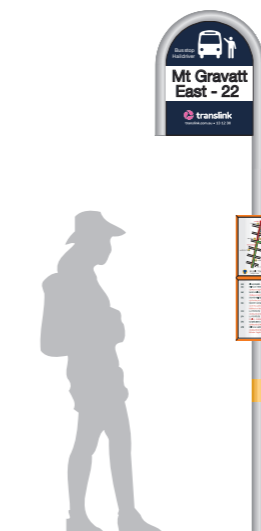
NTS

**Primary Version:** has a blue head plate (A) with white behind stop name. It should be used for bus stops located outside Brisbane City Council that are part of the TransLink network



#### Primary Version

NTS



#### Typical Elevation

nts

Sign Type

## IS-10e

### A3 Timetable Case

#### Construction Details

1. Fabricated 3mm / 2mm thick aluminium powder coated panels with stainless steel fasteners where applicable.
2. Designed to be mounted to a 60mm O/D HD galvanised post.
3. Colour of powder coat to match Resene 'Trinidad' O61-167-048.
4. Security fixings in stainless steel used for folded retaining strips.
5. Clear outer cover installs using the vertical edge capture flanges.
6. Outer clear cover is 2mm U/V stabilised polycarbonate with screen printed Header and Footer reverse printed, on clear PMS 533C (dark blue), and white text and graphics.

#### Construction Schedule

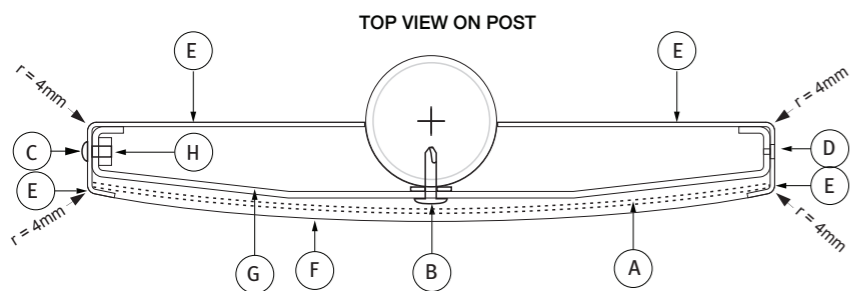
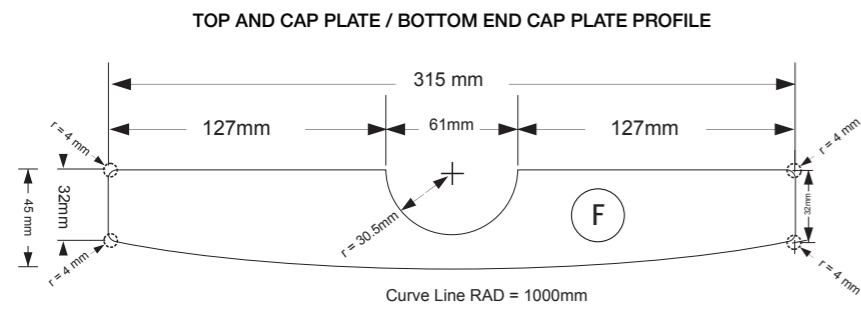
- A. 2mm clear polycarbonate cover with reverse printed Header and Footer.
- B. 8mm screw holes x 2 for wafer head attachments - galvanised self taper.
- C. 16mm M6 S/S MT socket button post torx - HEC Security / A2 screw into M6 insert coil thread holes
- D. 3mm drilled pit weld holes, weld and grind and sand to smooth flush finish.
- E. Folded 2mm aluminum trim retainer and back cover combined panel.
- F. 3mm top / bottom end cap piece.
- G. 3mm folded main face plate panel.
- H. M6 S/Steel coil thread Inserts to suit thread and pitch of security screws.

#### NOTE:

When installing the timetable case to the bus stop post ensure the access screws are on the side located away from the kerb side.

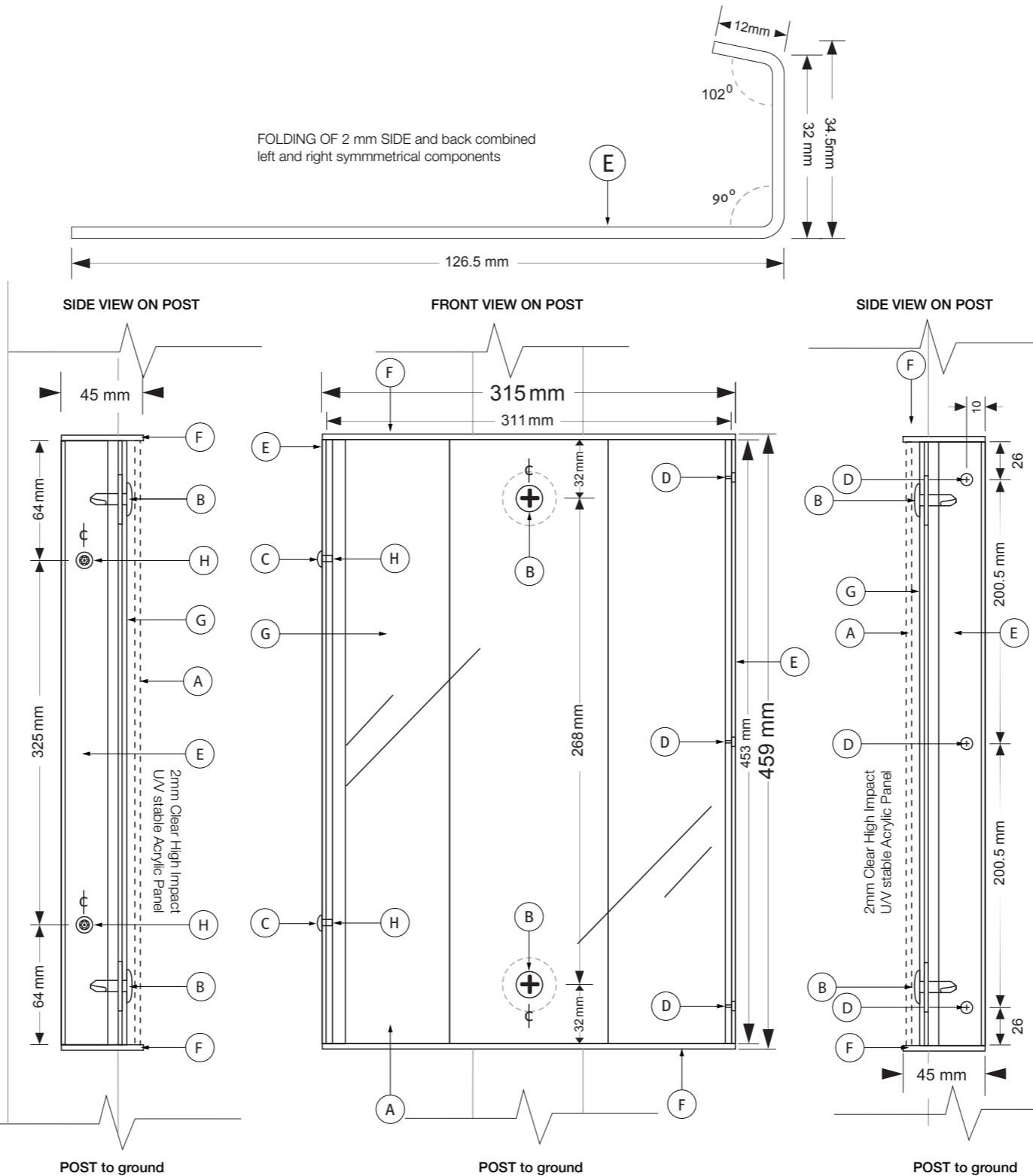
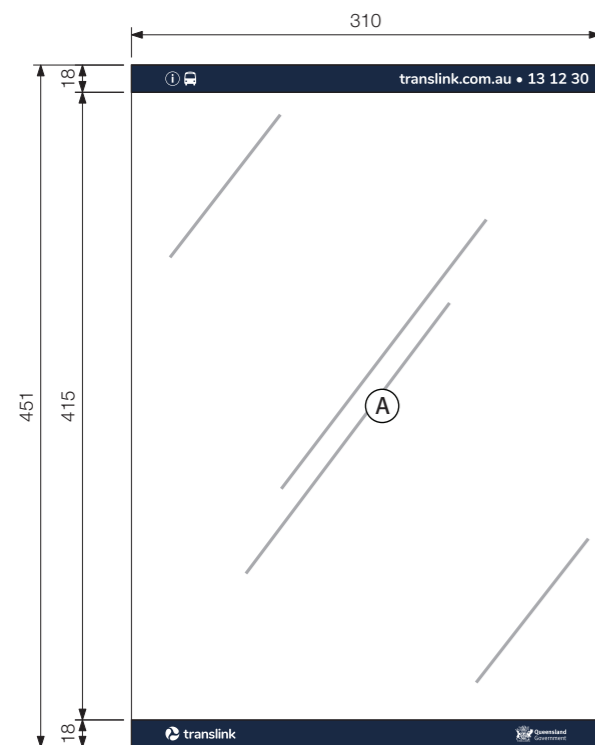
#### ALTERNATIVE TIMETABLE CASE

AS AN ALTERNATIVE A3 TIMETABLE CASE IMPLEMENTATION OPTION PLEASE CONTACT TRANSLINK FOR DETAILS OF INJECTION MOULDED PC/PBT A3 TIMETABLE CASES



- Component fixing detail:**
- (G)-(F) End plates to Main panel, stitch welded 10mm on reverse side spaced at 25mm as required.
  - (E)-(G) Back plate and fixed Side Panel, Pit welded and ground and sanded to finish flush to outer surface of the folded rear flange.
  - (E)-(G) Side retaining Panel (removable) retained by 2, S/S Hex Secura Head Fixings M5 at 10 mm long into Stainless Steel Threaded Insert installed into aluminium.

2mm CLEAR POLYCARBONATE COVER - with 2 Colour Printed Header And Footer



Sign Type

## IS-11a

### Parking Conditions Sign - Freestanding

#### Purpose

- To identify and provide conditions of parking information
- Vehicular use

#### Typical location

- At entrance of car park
- Freestanding or wall/fence mounted
- Located away from pathway, eg garden bed.

#### Indicative message

- Conditions of parking information/pictograms (if required)

#### Graphic Details

##### FONT

Main text = Helvetica Neue 66 Medium Italic  
 "Commuter Park 'n' Ride" = Helvetica Neue 65 Medium  
 "Conditions" text = Helvetica Neue 55 Roman

##### SIZE

Major text = 50mm cap X height  
 "Commuter Park 'n' Ride" = 25mm cap X height  
 "Conditions" text = 15mm cap X height  
 Pictogram = 100mm high

##### COLOUR

Header panel = Resene Jon N38-007-359  
 Park 'n' ride = Arlon White 02  
 Text background = Resene Rice Cake G94-010-092  
 Text = Arlon Black 03

#### Construction details

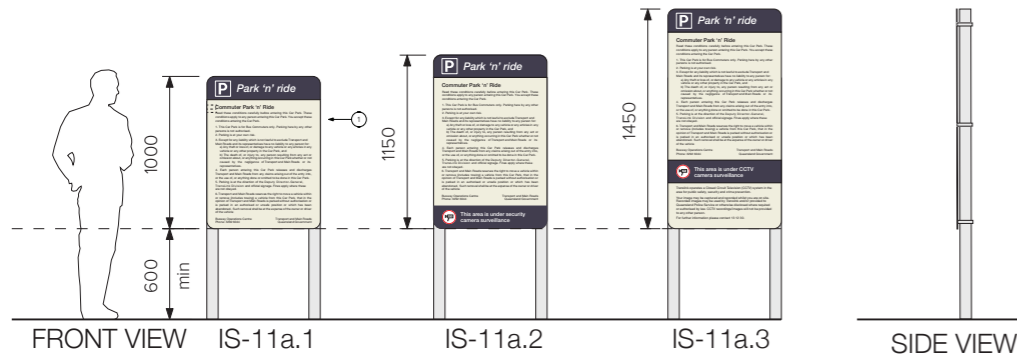
1. 3mm thick aluminium painted sign panel with front applied external grade vinyl graphics. Anti-graffiti clear coat over. Suitable clamp fixings to galvanised post.

#### Freestanding

2. Galvanised post to sign maker's engineer specification.

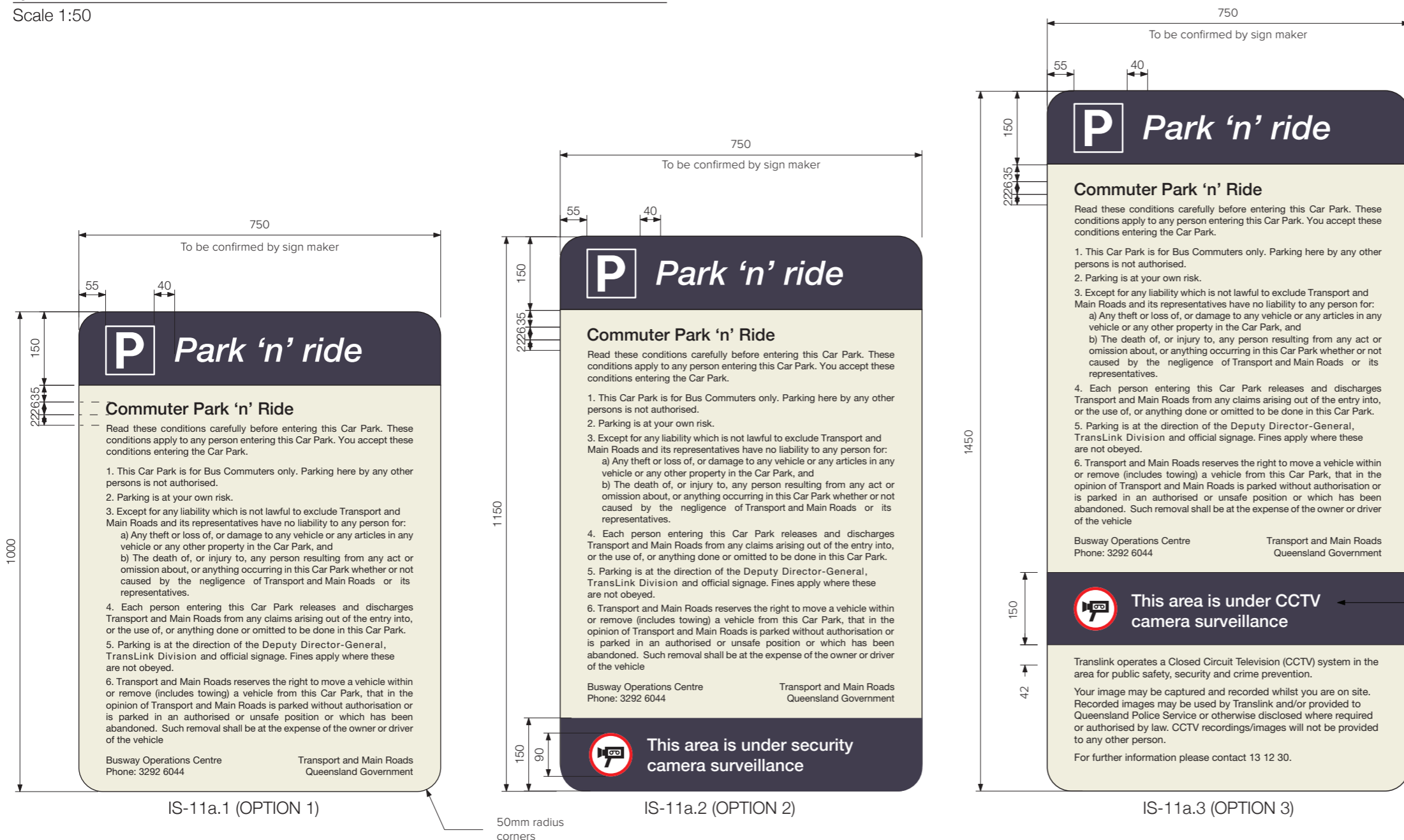
3. Reinforced concrete pad/pier footing to sign makers' engineer specification. All fixings shall be below ground level to reduce trip hazards. Re-instate / make good paving or pavement, with no changes of level greater than 3mm and no gradients steeper than 1:40.

Note: Signmaker to confirm information content with TransLink prior to manufacture.



#### Typical Elevations

Scale 1:50



#### Graphic Layouts

Scale 1:10

Sign Type

### IS-11b

#### Parking Conditions Sign - Wall mounted

##### Purpose

- To identify and provide conditions of parking information
- Vehicular use

##### Typical location

- At entrance of car park
- Freestanding or wall/fence mounted
- Located away from pathway, eg garden bed.

##### Indicative message

- Conditions of parking information/pictograms (if required)

##### Graphic Details

###### FONT

Main text = Helvetica Neue 66 Medium Italic  
 "Commuter Park 'n' Ride" = Helvetica Neue 65 Medium  
 "Conditions" text = Helvetica Neue 55 Roman

###### SIZE

Major text = 50mm cap X height  
 "Commuter Park 'n' Ride" = 25mm cap X height  
 "Conditions" text = 15mm cap X height  
 Pictogram = 100mm high

###### COLOUR

Header panel = Resene Jon N38-007-359  
 Park n' ride = Arlon White 02  
 Text background = Resene Rice Cake G94-010-092  
 Text = Arlon Black 03

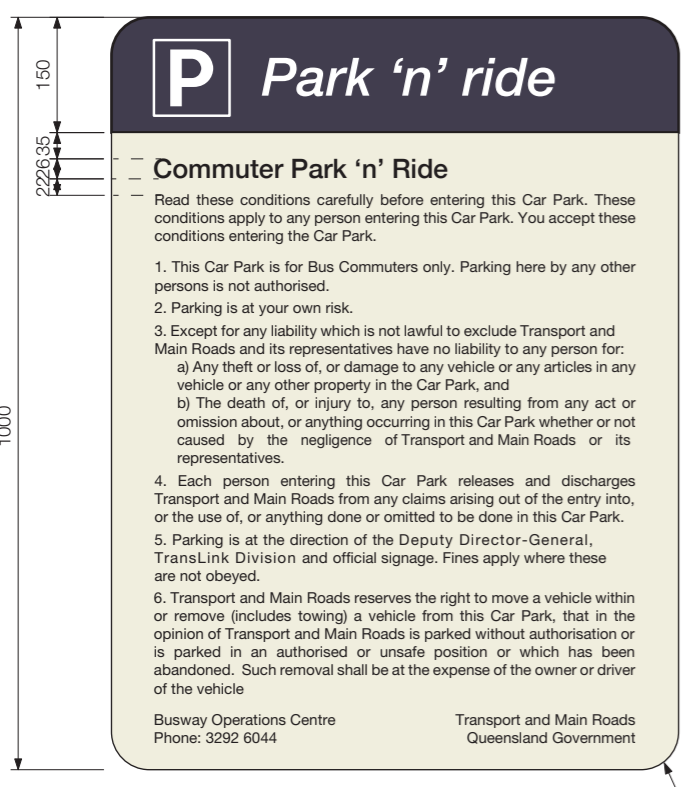
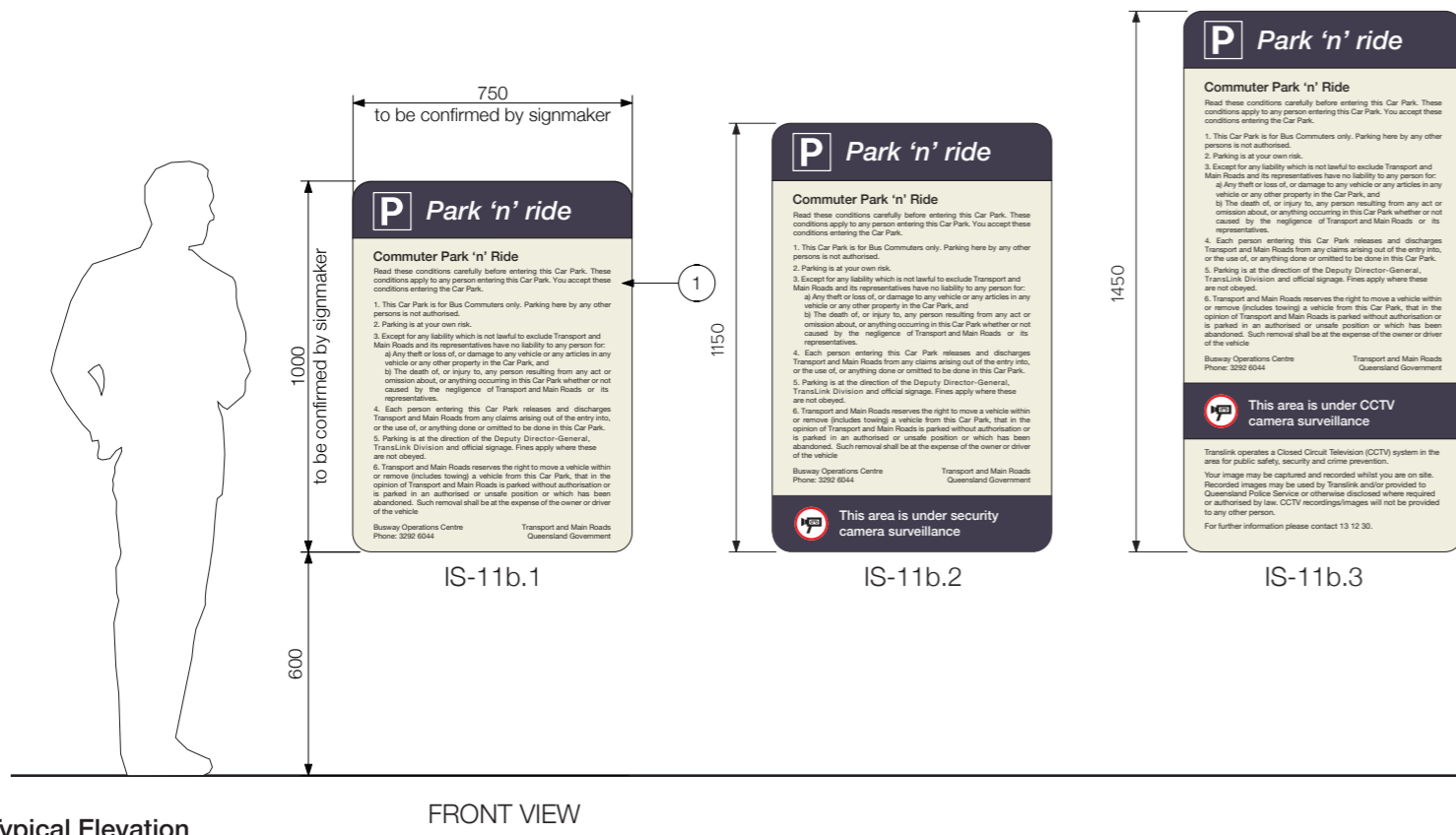
##### Construction details

1. 3mm thick aluminium painted sign panel with front applied external grade vinyl graphics. Anti-graffiti clear coat over. Suitable clamp fixings to galvanised post.

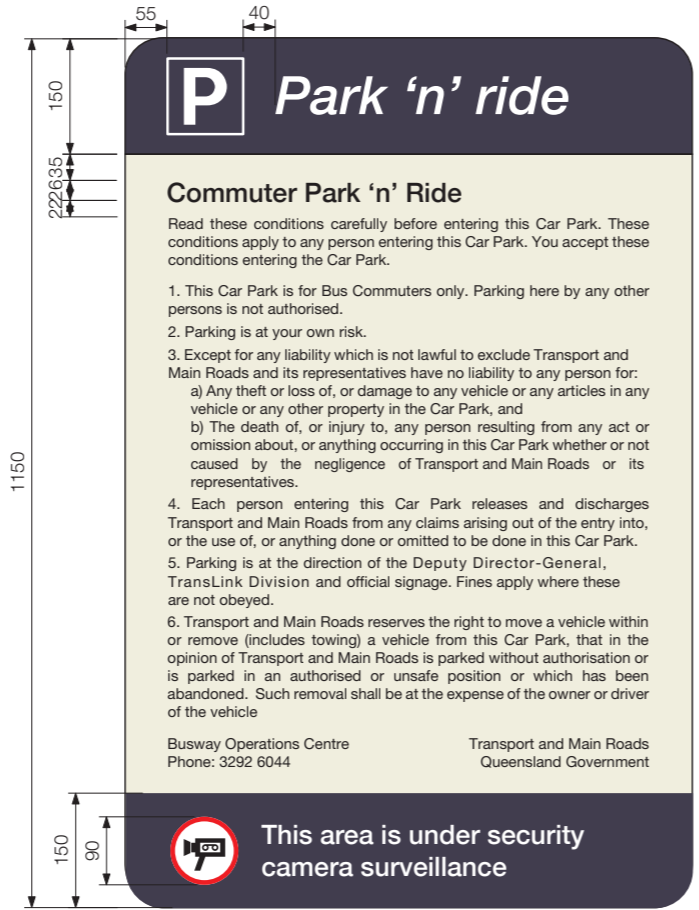
##### Wall mounted

2. Panel fixed to wall / chain wire fence with suitable fixings.

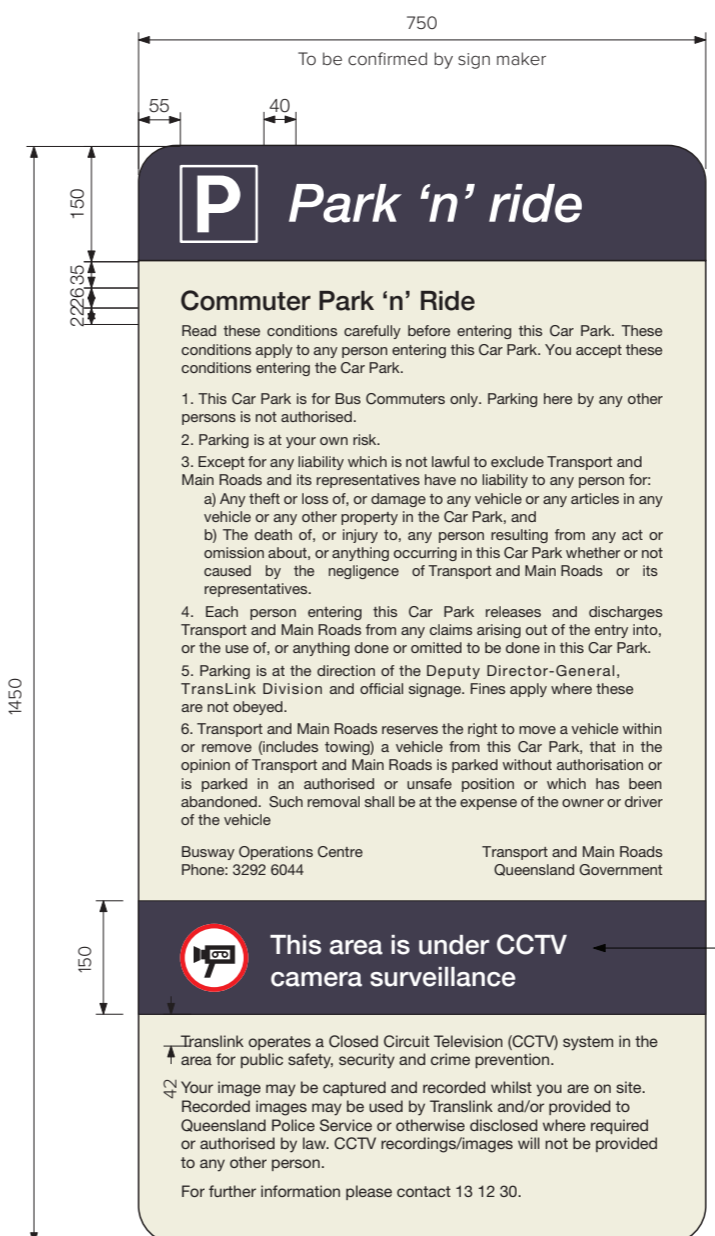
Note: Signmaker to confirm information content with TransLink prior to manufacture.



IS-11b.1 (OPTION 1)



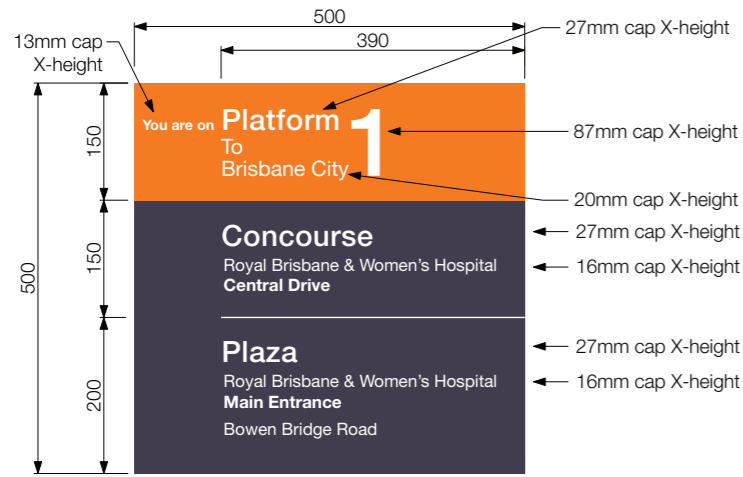
IS-11b.2 (OPTION 2)



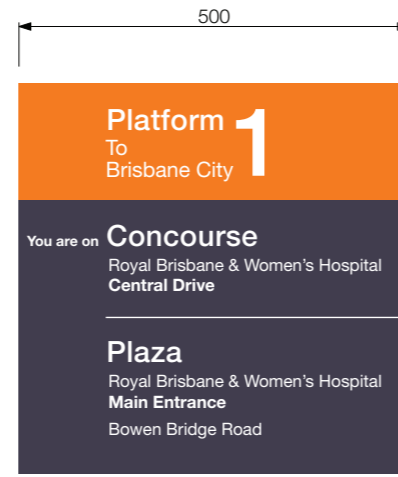
IS-11b.3 (OPTION 3)

##### Graphic Layout

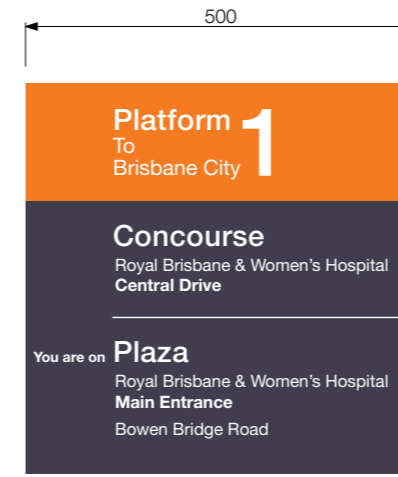
Scale 1:10



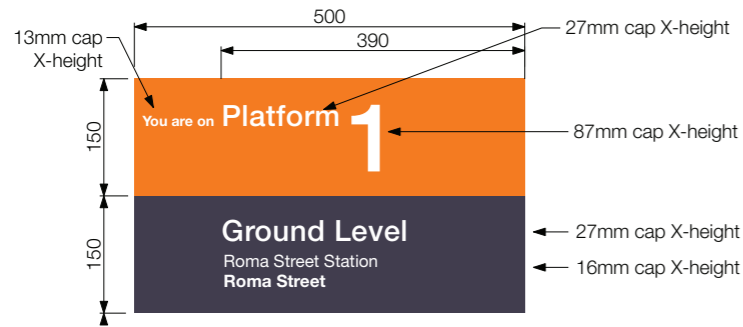
PLATFORM LEVEL  
3 LEVELS



CONCOURSE LEVEL



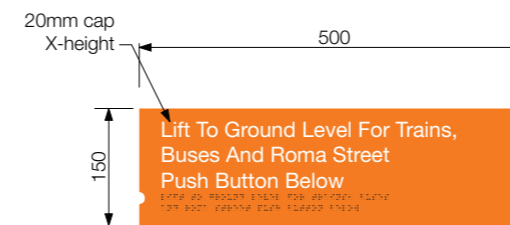
PLAZA LEVEL



PLATFORM LEVEL  
2 LEVELS



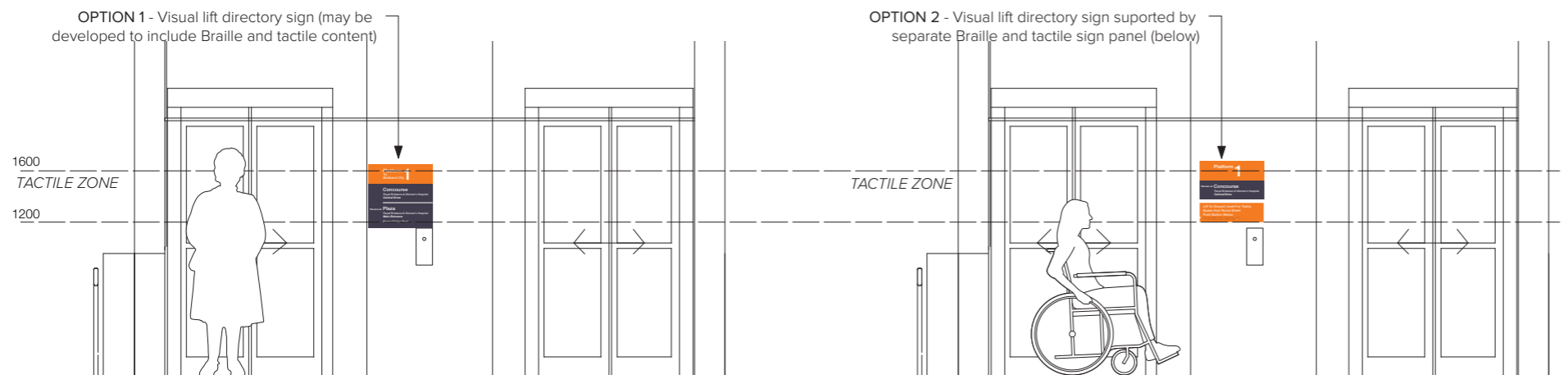
GROUND LEVEL



SUPPORT PANEL  
BRAILLE AND TACTILE GRAPHICS  
OPTION 2 ONLY

### Typical Graphic Layouts

Scale 1:10



### Typical Locations

Scale 1:50

### Sign Type

## IS-13

### Lift Directory

**Purpose**

- To identify station levels (typically only at multi level stations)
- For pedestrian use

**Typical location**

- Next to lift doors

**Indicative message**

- Levels (Platform / Concourse / Plaza / Underpass)
- Level information
- Where required, additional sign panel with Braille to be installed

### Graphics Detail

#### FONT

'To...' = Helvetica Neue 55 Roman  
Sub-messages = Helvetica Neue 55 Roman  
All other text = Helvetica Neue 65 Medium

#### SIZE

All text = as shown

#### COLOUR

Transport panel = Resene 'Trinidad' O61-167-048  
All other panels = Resene 'Jon' N38-007-359  
Text = White

### Construction Details

1. 2mm aluminium sign panel with applied graphic options below:

#### OPTION 1 - Single Sign

Visual lift directory sign panel which may be developed to include Braille and tactile content.

#### OPTION 2 - Double Sign

Visual panels to have front applied graphics and protective satin clear coat over. Supporting smaller Braille and tactile sign panel describes lift operation located below.

2. Sign panel fixed to lift wall next to call button with 3M VHB double sided tape and tamper proof fixings. Prepare surface free from dust, dirt, oil & grease prior to fixing.

3. Use approved raised tactile pictograms and text and grade 1 Braille (uncontracted) to Australian Braille Authority, NCC and AS1428.4.2(2018) requirements. Top of Braille to be offset 8mm below letters. Braille locator notch left of first line of Braille. Sign face substrate must be UV stabilised and vandal resistant.

Sign Type

**PI-1**

**Pylon Identification Sign - Large**

**Purpose**

- Main sign to identify site / station from major approaches
- For pedestrian and vehicular use

**Typical location**

- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Where the station is located on a side road off a main road there may be a need to provide additional Major Identification sign/s at the intersection/s of the main road.
- Located in either TMR or Others property depending on site constraints.
- Note:- If located outside TMR property, Owner to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.
- Sign post to be located outside required pedestrian paths of travel. Obtain advice from TransLink and the property owner prior to finalising locations.

**Indicative message**

- Name of station, pictogram and service operator

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic

**SIZE**

- Translink graphic = 1810mm high (proportional width)
- Translink logo = 325mm high (proportional width)
- Short station name = 155mm cap X height
- Long station name = 140mm cap X height
- Transport pictogram = 500mm x 500mm
- Qld Govt logo = 500mm high (proportional width)

**COLOUR**

*Panel Backgrounds*

- TransLink background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)
- Other background = Resene 'Jon' N38-007-359

*Sign Structure*

- Sign structure = Resene 'Jon' N38-007-359
- Sign structure shadowlines = Resene 'Jon' N38-007-359

*Illuminated graphics*

- TransLink logo tint = Arlon Tangerine 84 translucent vinyl
- TransLink logo = Opal
- Station name = Opal
- Pictograms = Opal

*Non-illuminated graphics*

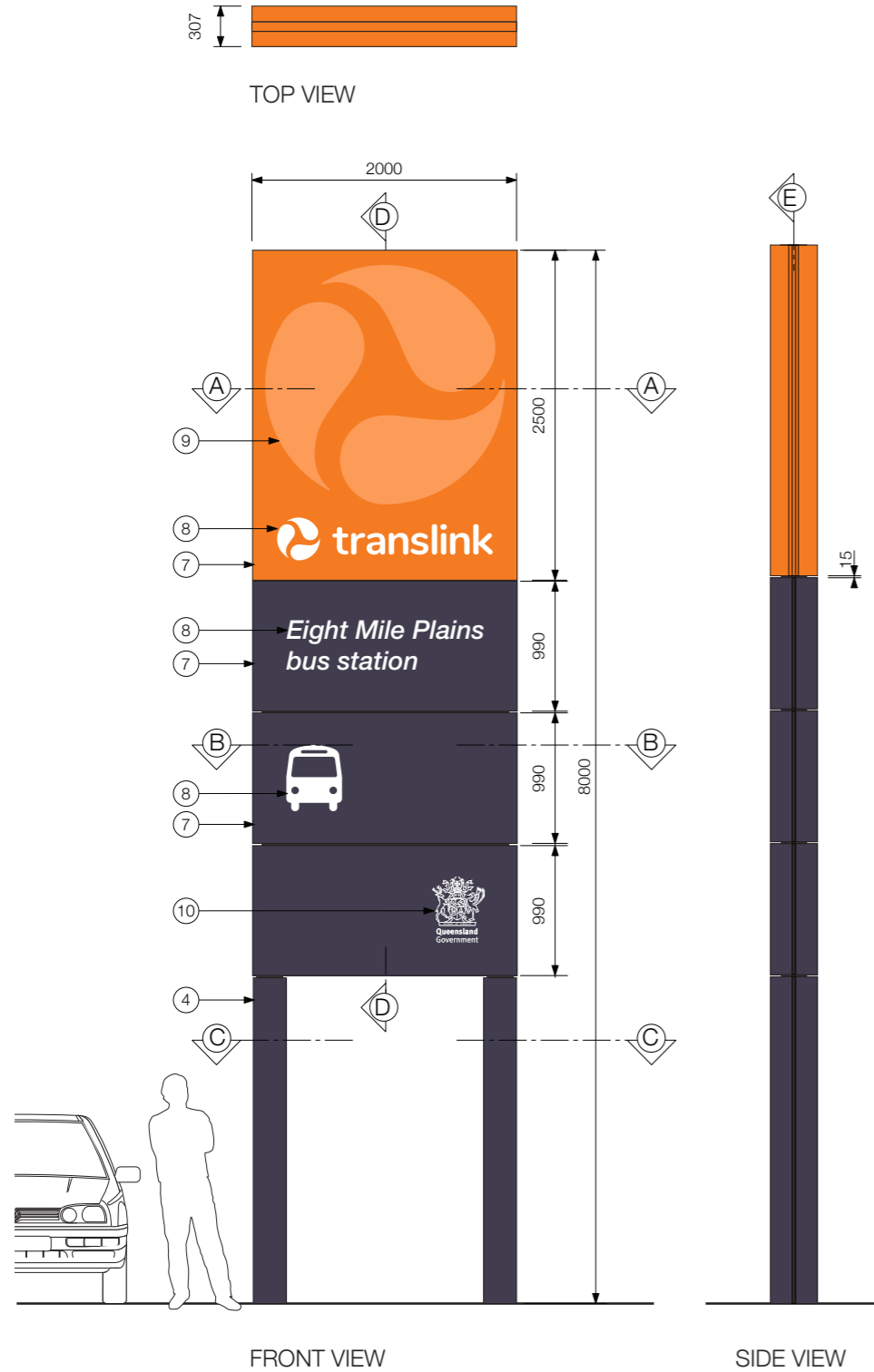
- Qld Govt logo = Vinyl Arlon White

**Construction Details**

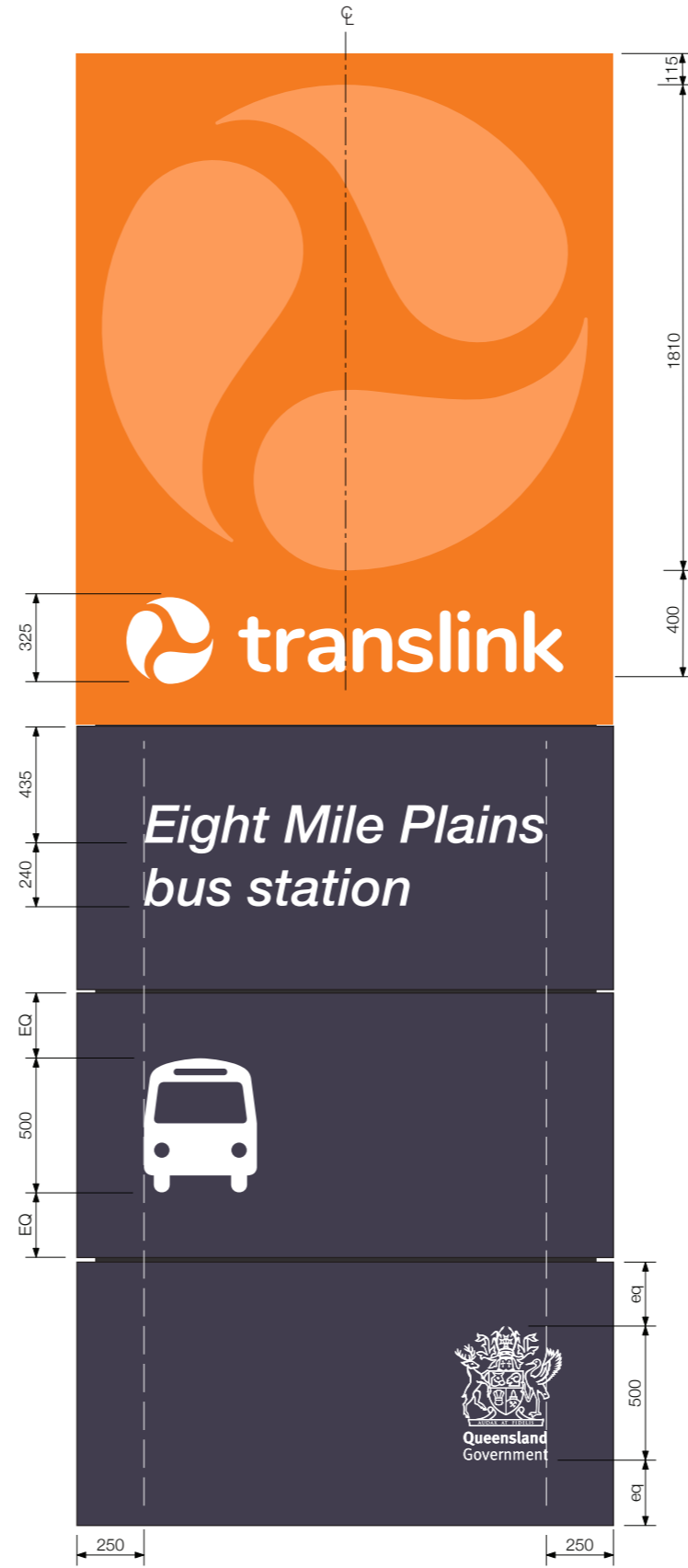
Refer 4.32.2 for details.

**NOTE:**

- Allow to connect to existing electrical supply including all electrical conduits.
- Provide timer or photo electric switch to regulate illumination. Client to confirm hours of operation.



**Typical Location**  
Scale 1:50



**Graphic Layout**  
Scale 1:25

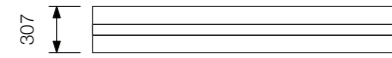
Sign Type

**PI-1**

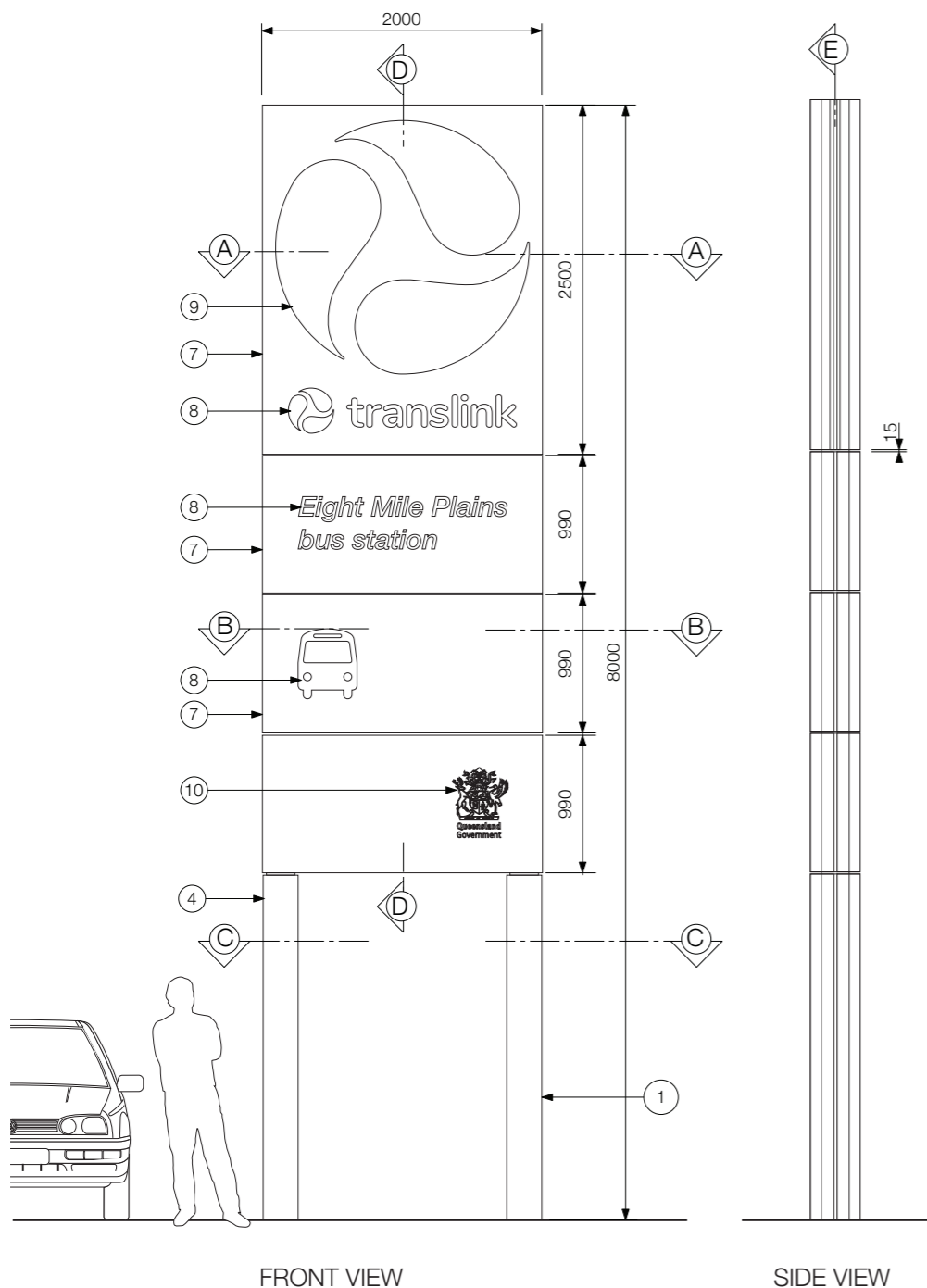
**Pylon Identification Sign - Large**

**Construction Detail**

1. 200 x 200 x 6mm SHS galvanised steel poles with horizontal top member suitable for lifting lugs.
  2. 100 x 200 x 6mm RHS galvanised steel vertical members welded to top of galvanised steel poles.
  3. 100 x 200 x 6mm RHS galvanised steel horizontal members welded to inside of galvanised steel poles.
  4. 2mm folded aluminium cladding fixed to outside of pole. 5mm minimum radius corners.
  5. Internally illuminated by LED backlight modules mounted to backing panel on both sides. LED layout indicative only. Signmaker to provide control gear. Refer to specification for LED requirements. Sign should be illuminated during all hours of operation.
  6. 25 x 25 x 3mm SHS galvanised steel light supports welded to horizontal members to hold LED backing panels.
  7. Fabricated 3mm thick double sided aluminium sign box. Cut through logo and graphics on both sides of face. Internal channel frame welded inside box to align with horizontal members. Provide adequate drainage / ventilation to prevent condensation.
  8. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  9. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  10. Fabricated 3mm thick double sided aluminium sign box, non-illuminated with cut vinyl graphics applied to faces on both sides.
  11. Stainless steel bolts and screws to engineers specification. Provide flashing and spacers as required. Security screw heads to be used where visible, paint out to match background colour.
  12. Power conduits to be concealed within structure. Isolators and control gear to be located in a secure accessible location for service.
  13. Signmaker's engineer to specify base plate, footing and structural details. Signmaker to co-ordinate installation with Managing Contractor / TMR Representative. Finish of footing to be coordinated with paving.
- NOTE:**
- Allow to connect to existing electrical supply including all electrical conduits. (TMR to inform power source.)
  - All joints between aluminium and acrylic to be sealed against weather.
  - Provide timer or photo electric switch to regulate illumination. TMR to confirm hours of operation.



TOP VIEW

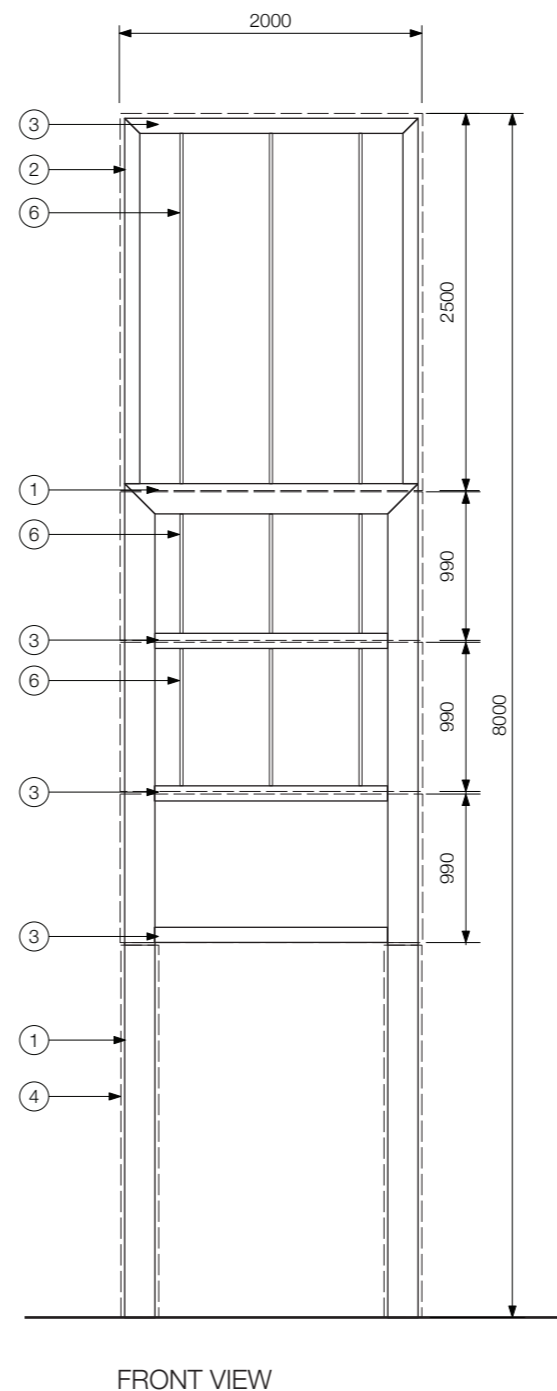


FRONT VIEW

SIDE VIEW

**Construction Elevation**

Scale 1:50



FRONT VIEW

**Internal Framing**

Scale 1:50

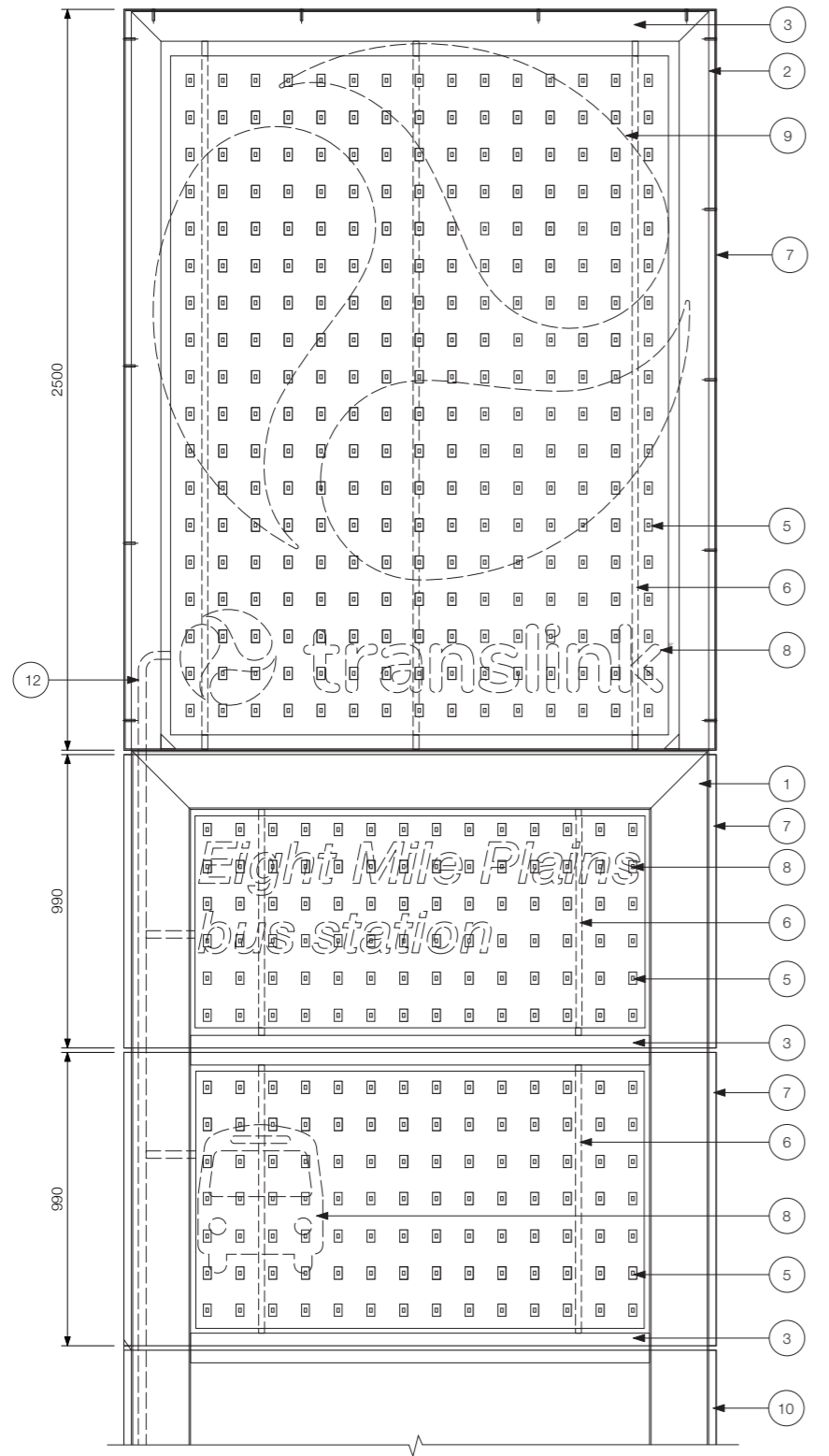
Sign Type

**PI-1**

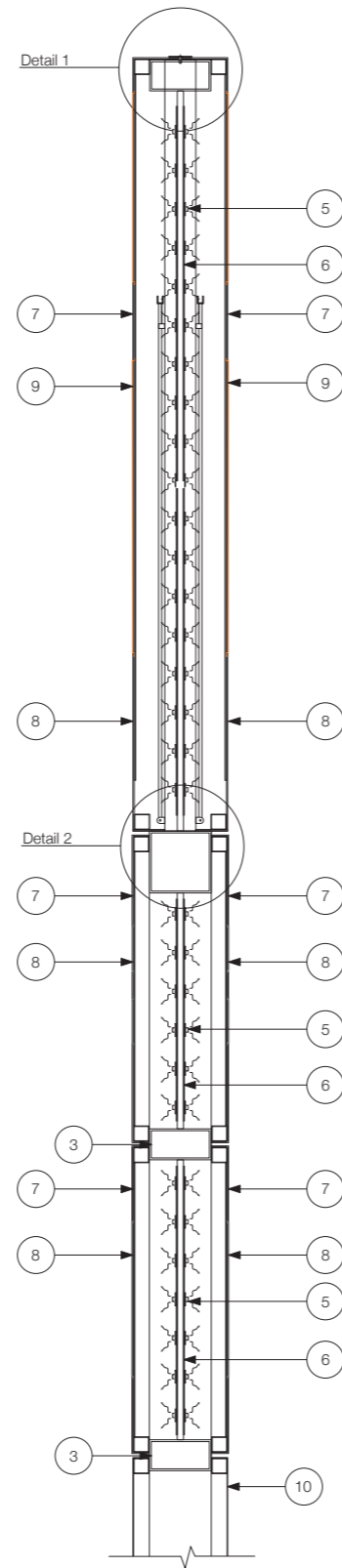
**Pylon Identification Sign - Large**

**Construction Details**

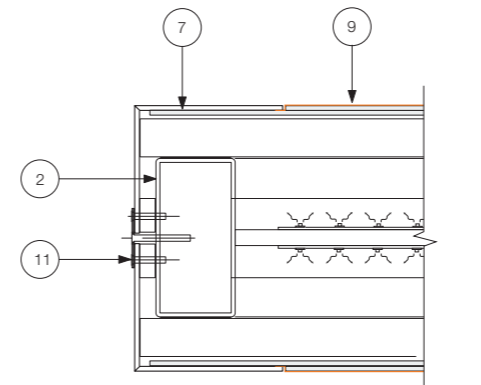
Refer 4.32.2 for details.



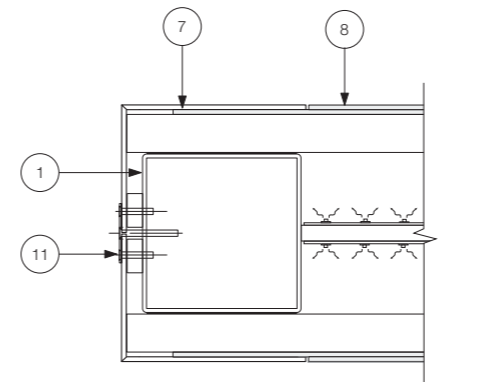
**Section E-E**  
Scale 1:20



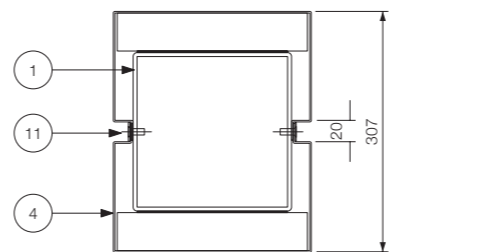
**Section D-D**  
Scale 1:20



**Section A-A**  
NTS



**Section B-B**  
NTS



**Section C-C**  
NTS



Sign Type

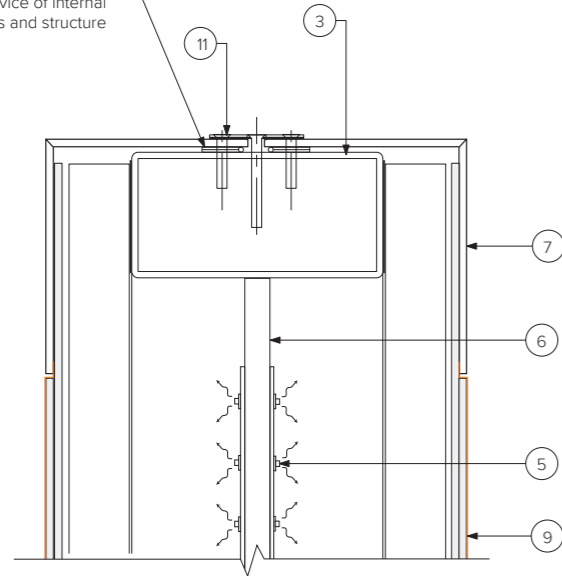
**PI-1**

Pylon Identification Sign - Large

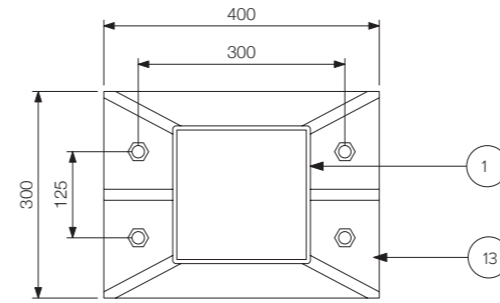
Construction Details

Refer 4.32.2 for details.

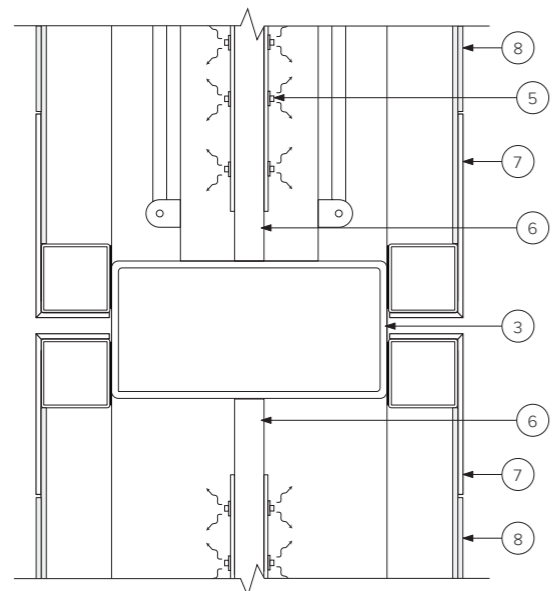
Sign faces are to be appropriately hinged and supported or removable to allow for access/service of internal components and structure



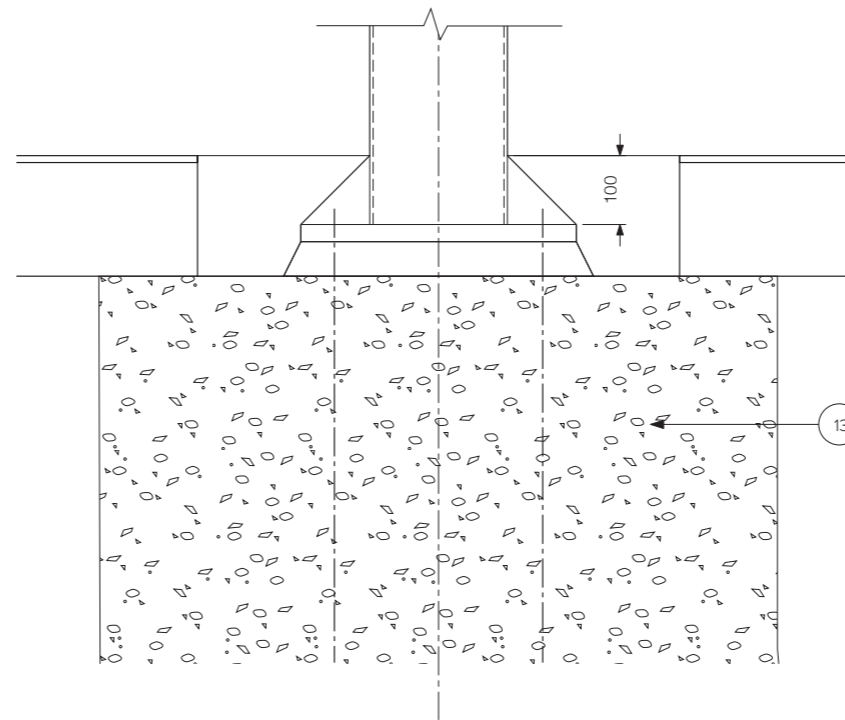
**Detail 1**  
Scale 1:5



**Base Plate - Top Elevation**  
Scale 1:10



**Detail 2**  
Scale 1:5



**Base Plate - Front Elevation**  
Scale 1:10

Sign Type

**PI-2**

**Pylon Identification Sign**

**Purpose**

- Main sign to identify site / station from major approaches
- For pedestrian and vehicular use

**Typical location**

- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Where the station is located on a side road off a main road there may be a need to provide additional Major Identification sign/s at the intersection/s of the main road.
- Located in either TMR or Other's property depending on site constraints.
- Note:- If located outside TMR property, owner to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.
- Sign post to be located outside required pedestrian paths of travel.
- Obtain advice from TransLink and the property owner prior to finalising locations.

**Indicative message**

- Name of station, pictogram and service operator

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic

**SIZE**

- Translink graphic = 1450mm high (proportional width)
- Translink logo = 260mm high (proportional width)
- Station name = 145mm cap X height
- Transport pictogram = 400mm x 400mm
- Qld Govt logo = 400mm high (proportional width)

**COLOUR**

*Panel Backgrounds*

- TransLink background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)
- Other background = Resene 'Jon' N38-007-359

*Sign Structure*

- Sign structure = Resene 'Jon' N38-007-359
- Sign structure shadowlines = Resene 'Jon' N38-007-359

*Illuminated graphics*

- TransLink logo tint = Arlon Tangerine 84 translucent vinyl
- TransLink logo = Opal
- Station name = Opal
- Pictograms = Opal

*Non-illuminated graphics*

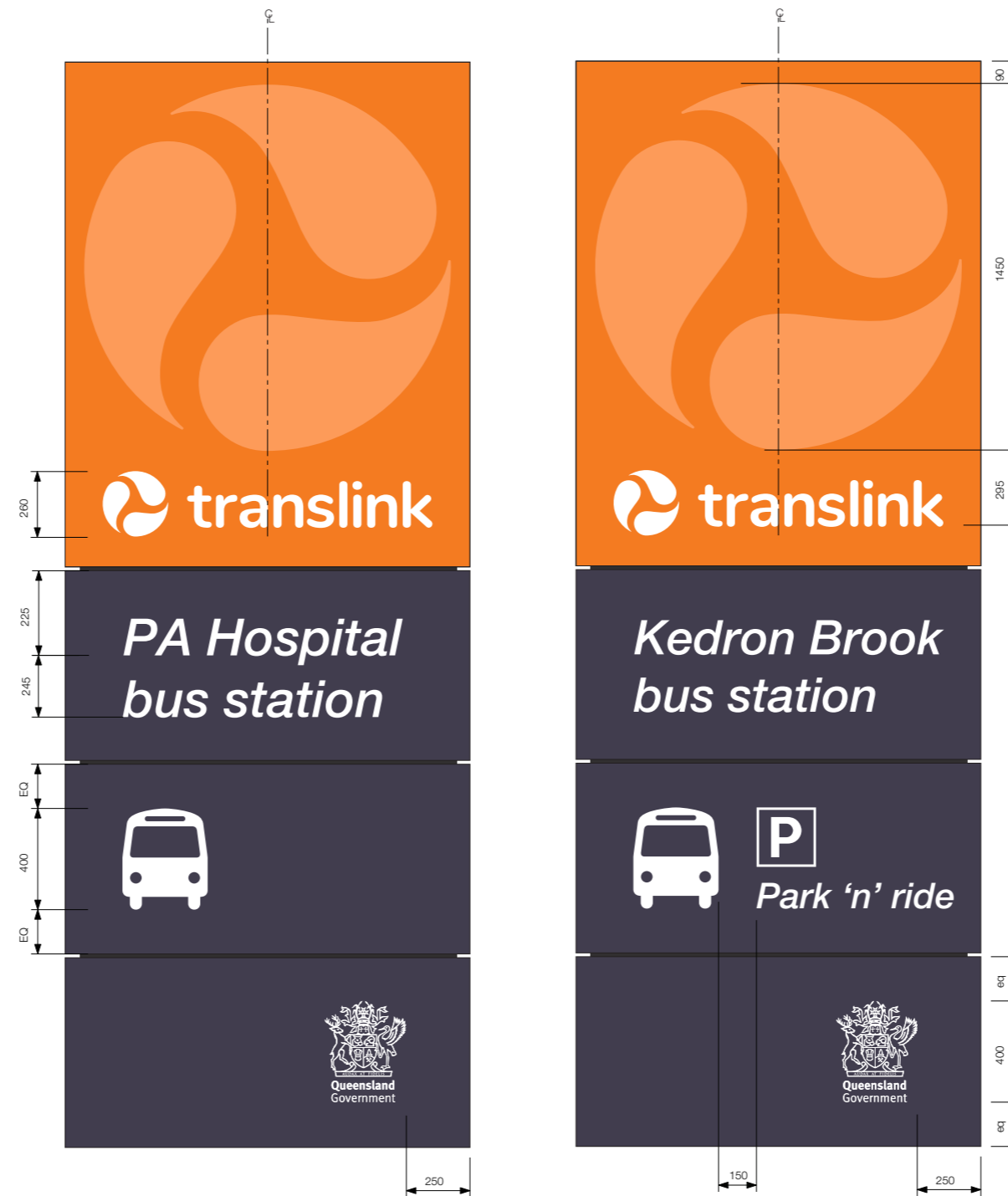
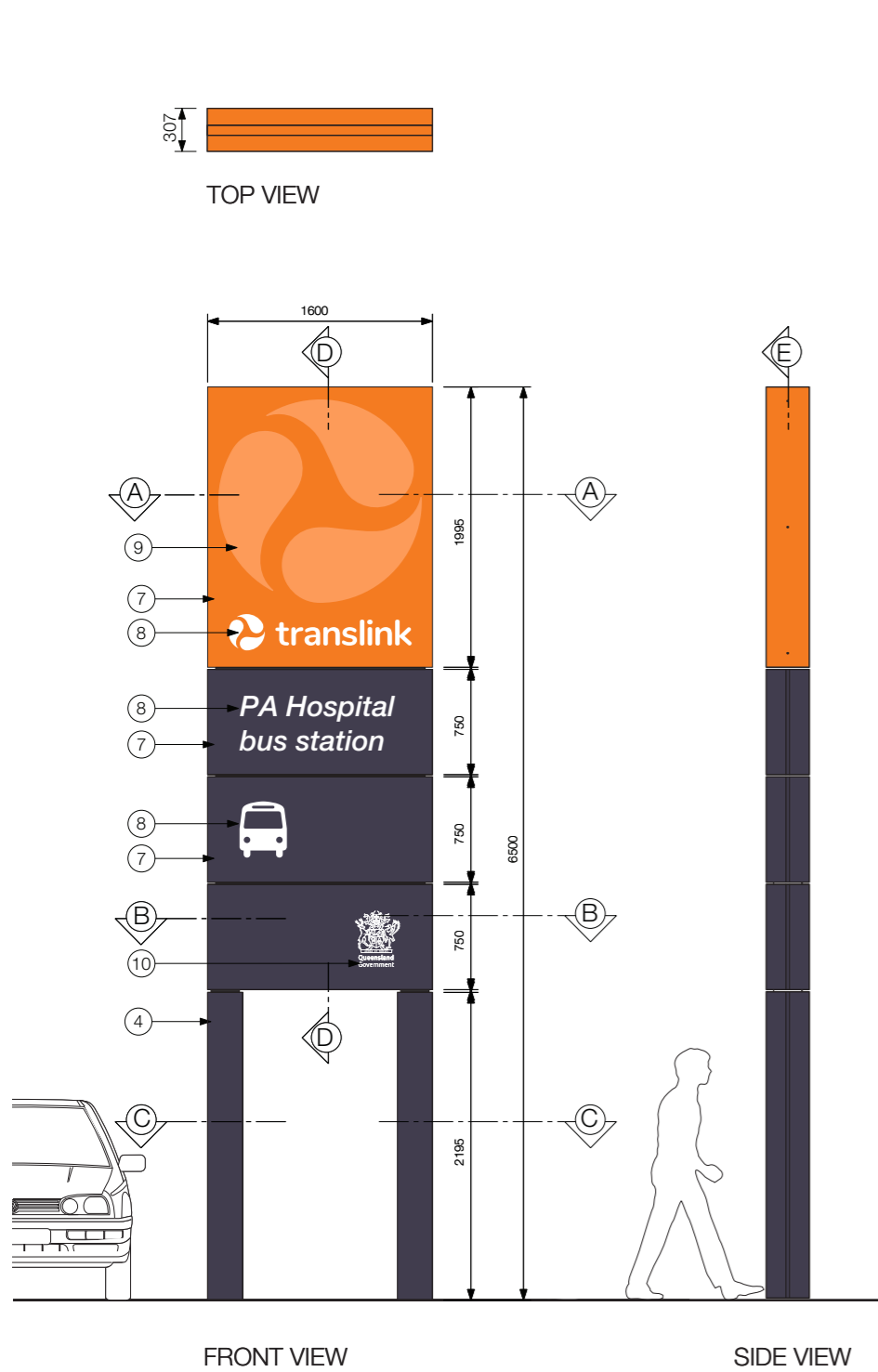
- Qld Govt logo = Vinyl Arlon White

**Construction Details**

Refer 4.33.2 for details.

**NOTE:**

- Allow to connect to existing electrical supply including all electrical conduits.
- Provide timer or photo electric switch to regulate illumination.
- Client to confirm hours of operation.



**Typical Location**

Scale 1:50

**Graphic Layout**

Scale 1:50

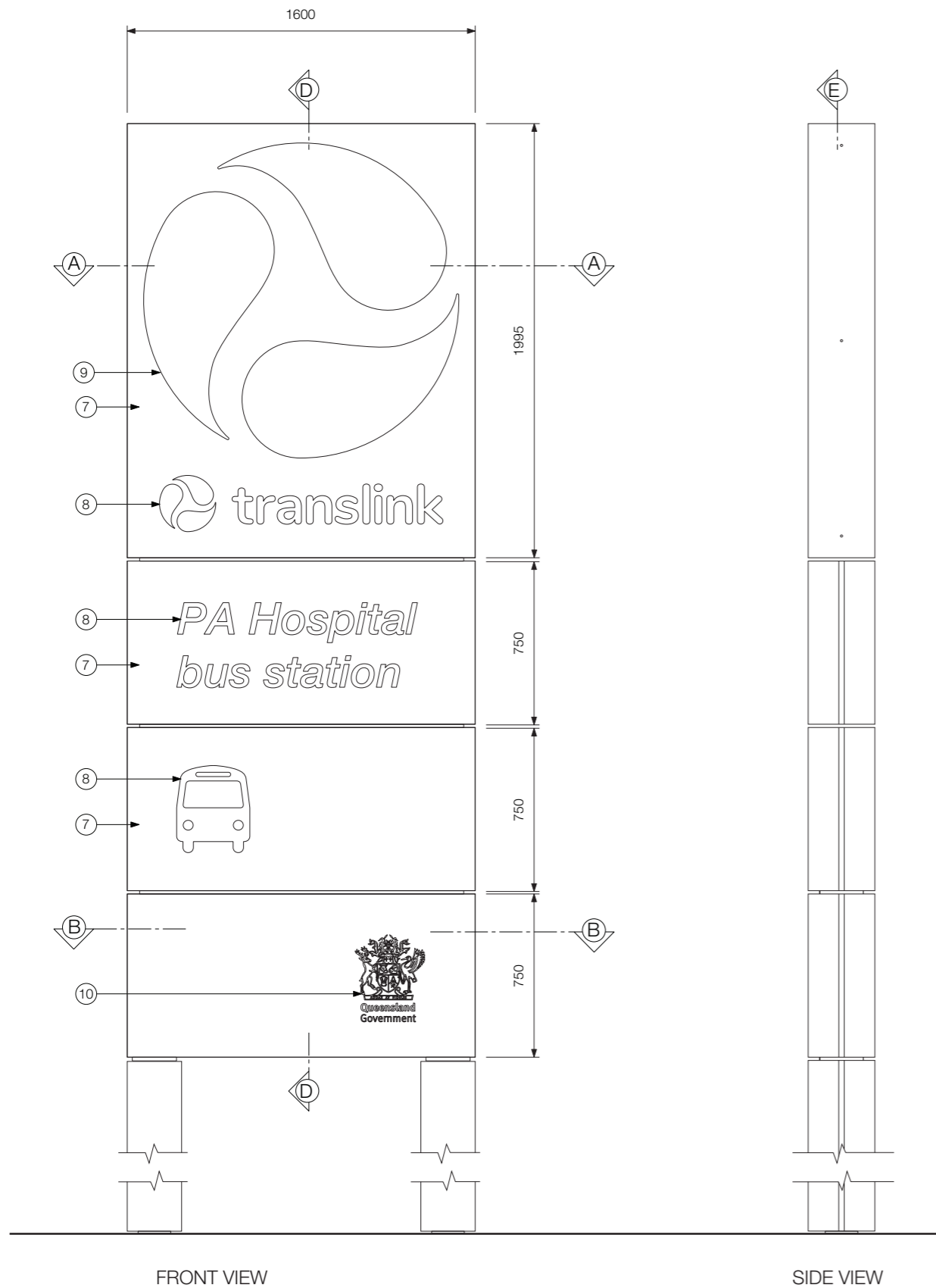
Sign Type

**PI-2**

**Pylon Identification Sign**

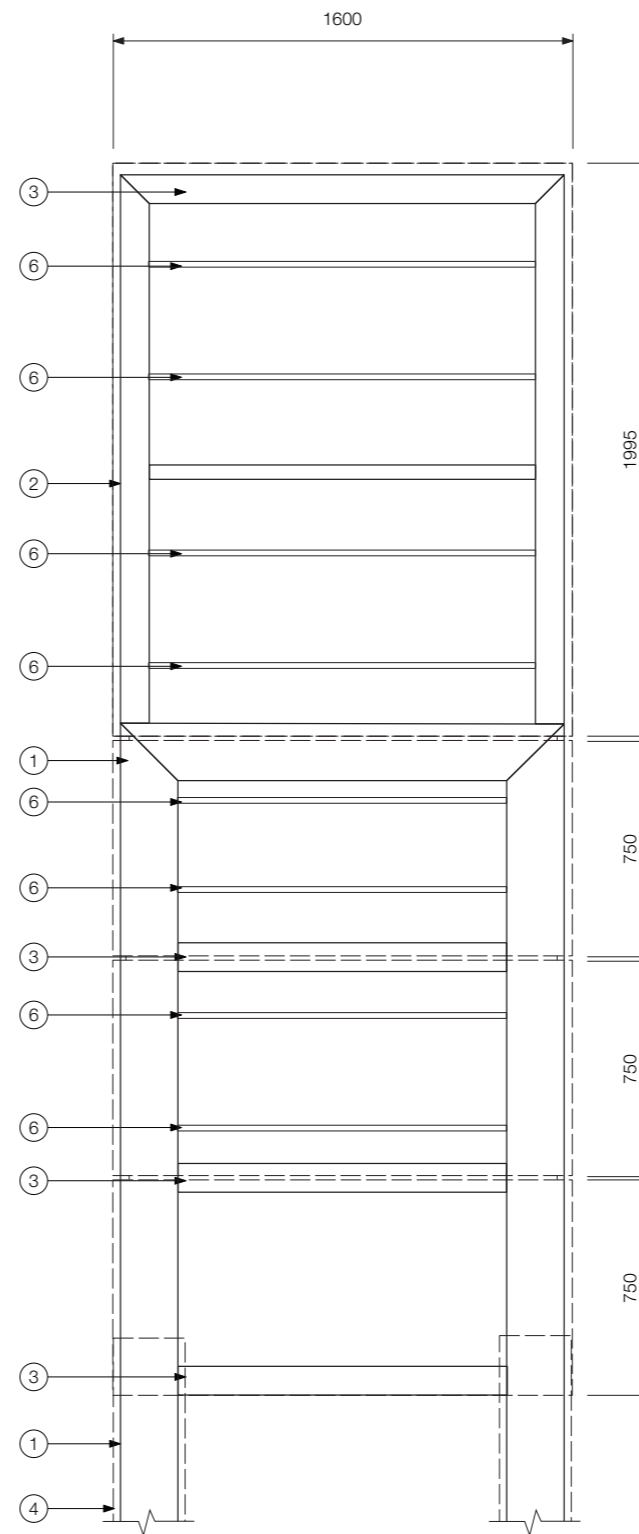
**Construction Detail**

1. 200 x 200 x 6mm SHS galvanised steel poles with horizontal top member suitable for lifting lugs.
  2. 100 x 200 x 6mm RHS galvanised steel vertical members welded to top of galvanised steel poles.
  3. 100 x 200 x 6mm RHS galvanised steel horizontal members welded to inside of galvanised steel poles.
  4. 2mm folded aluminium cladding fixed to outside of pole. 5mm minimum radius corners.
  5. Internally illuminated by LED backlight modules mounted to backing panel on both sides. LED layout indicative only. Signmaker to provide control gear. Refer to specification for LED requirements. Sign should be illuminated during all hours of operation.
  6. 20 x 20 x 3mm SHS galvanised steel light supports welded to horizontal members to hold LED backing panels.
  7. Fabricated 3mm thick double sided aluminium sign box. Cut through logo and graphics on both sides of face. Internal channel frame welded inside box as required. Provide adequate drainage / ventilation to prevent condensation.
  8. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  9. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  10. 3mm aluminium sign box, non-illuminated with cut vinyl graphics applied to faces on both sides.
  11. Stainless steel bolts and screws to engineers specification. Provide flashing and spacers as required. Security screw heads to be used where visible, paint out to match background colour.
  12. Power conduits to be concealed within structure. Isolators and control gear to be located in a secure accessible location for service.
  13. Signmaker's engineer to specify base plate, footing and structural details. Signmaker to co-ordinate installation with Managing Contractor / TMR Representative. Finish of footing to be coordinated with paving.
- NOTE:**
- Allow to connect to existing electrical supply including all electrical conduits.(TMR to inform power source.)
  - All joints between aluminium and acrylic to be sealed against weather.
  - Provide timer or photo electric switch to regulate illumination. TMR to confirm hours of operation.



Construction Elevations

Scale 1:25



Internal Framing

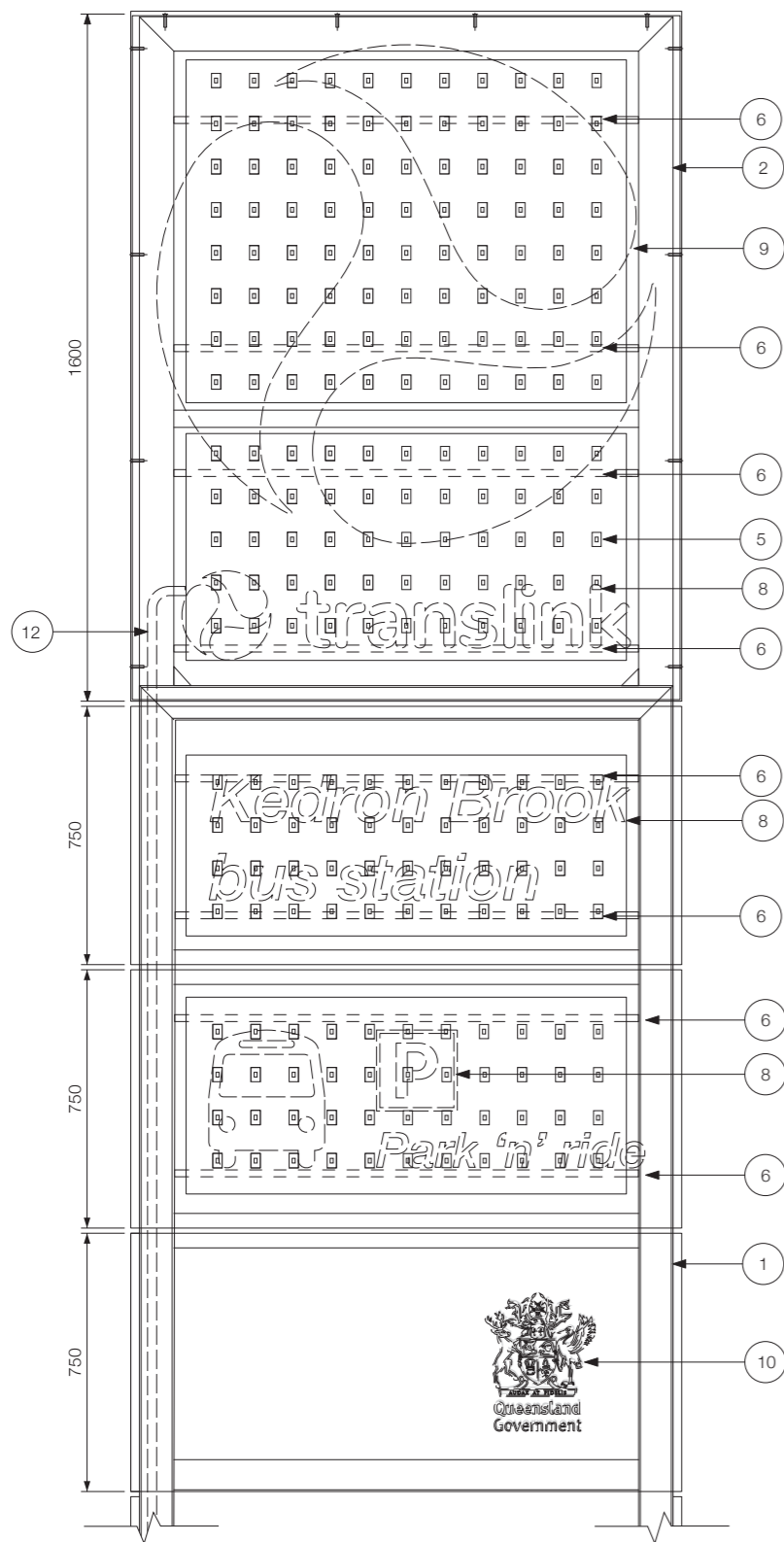
Scale 1:25

Sign Type

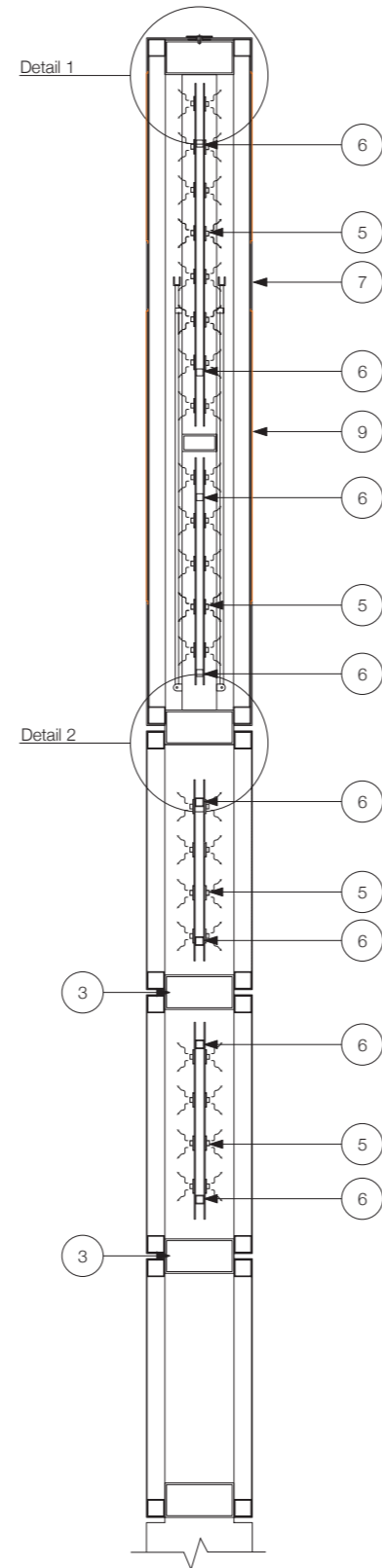
**PI-2**

**Pylon Identification Sign**

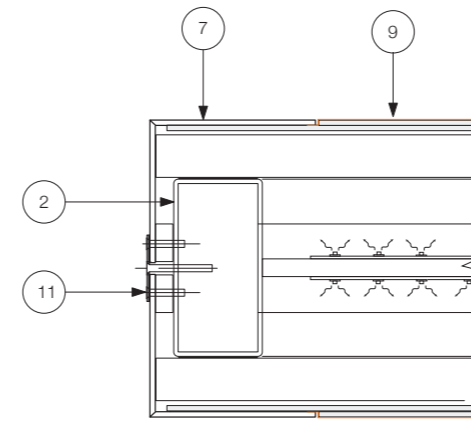
**Construction Details**  
Refer 4.33.2 for details.



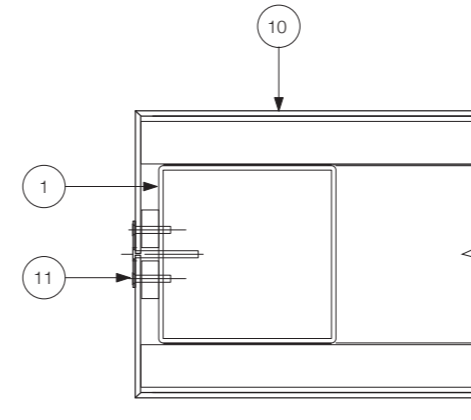
**Section E-E**  
Scale 1:20



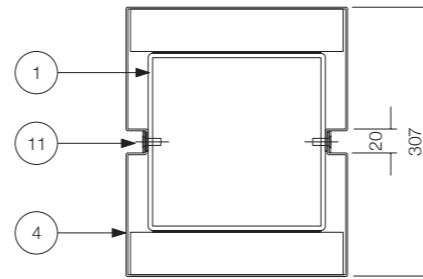
**Section D-D**  
Scale 1:20



**Section A-A**  
NTS



**Section B-B**  
NTS



**Section C-C**  
NTS

Sign Type

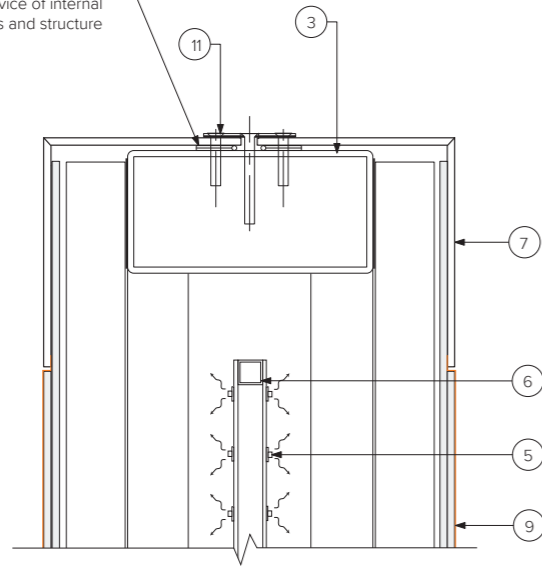
**PI-2**

**Pylon Identification Sign**

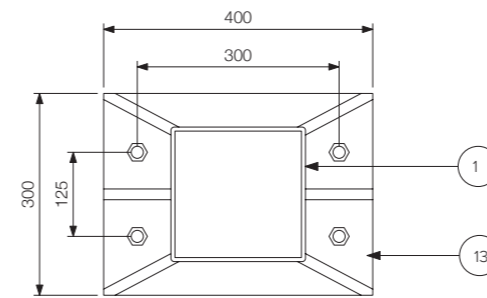
**Construction Details**

Refer 4.33.2 for details

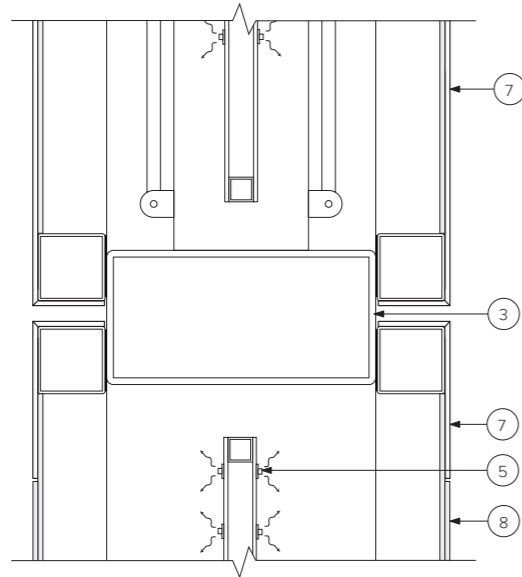
Sign faces are to be appropriately hinged and supported or removable to allow for access/service of internal components and structure



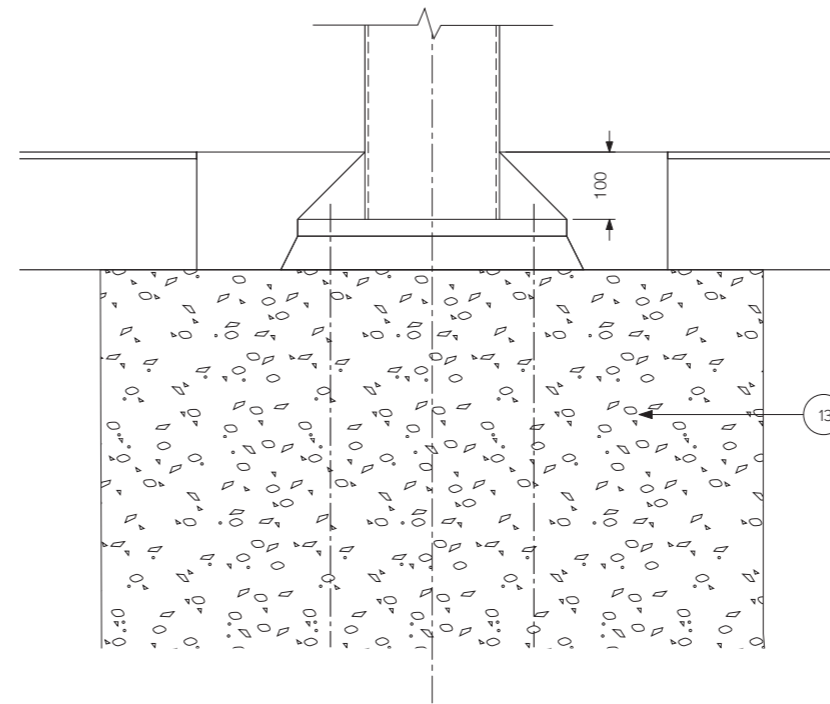
**Detail 1**  
Scale 1:5



**Base Plate - Top Elevation**  
Scale 1:10



**Detail 2**  
Scale 1:5



**Base Plate - Front Elevation**  
Scale 1:10

Sign Type

**PI-3a**

**Flagpole Identification Sign - Support sign only**

**Purpose**

- Secondary sign to identify site / station from major approaches
- For pedestrian and vehicular use
- Note this sign is only to be used as a secondary sign to support main identification sign.

**Typical location**

- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Where the station is located on a side road off a main road there may be a need to provide additional Major Identification sign/s at the intersection/s of the main road.
- Located in either TMR or Other's property depending on site constraints.
- Note:- If located outside TMR property, owner to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.
- Sign post to be located outside required pedestrian paths of travel. Obtain advice from TransLink and the property owner prior to finalising locations.

**Indicative message**

- Name of station

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic

**SIZE**

Translink graphic = 905mm high (proportional width)

Translink logo = 160mm high (proportional width)

Station name = 85mm cap X height

**COLOUR**

*Panel Backgrounds*

TransLink background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)

Other background = Resene 'Jon' N38-007-359

*Sign Structure*

Sign structure = Resene 'Jon' N38-007-359

Sign structure shadowlines = Resene 'Jon' N38-007-359

*Illuminated graphics*

TransLink logo tint = Arlon Tangerine 84 translucent vinyl

TransLink logo = Opal

Station name = Opal

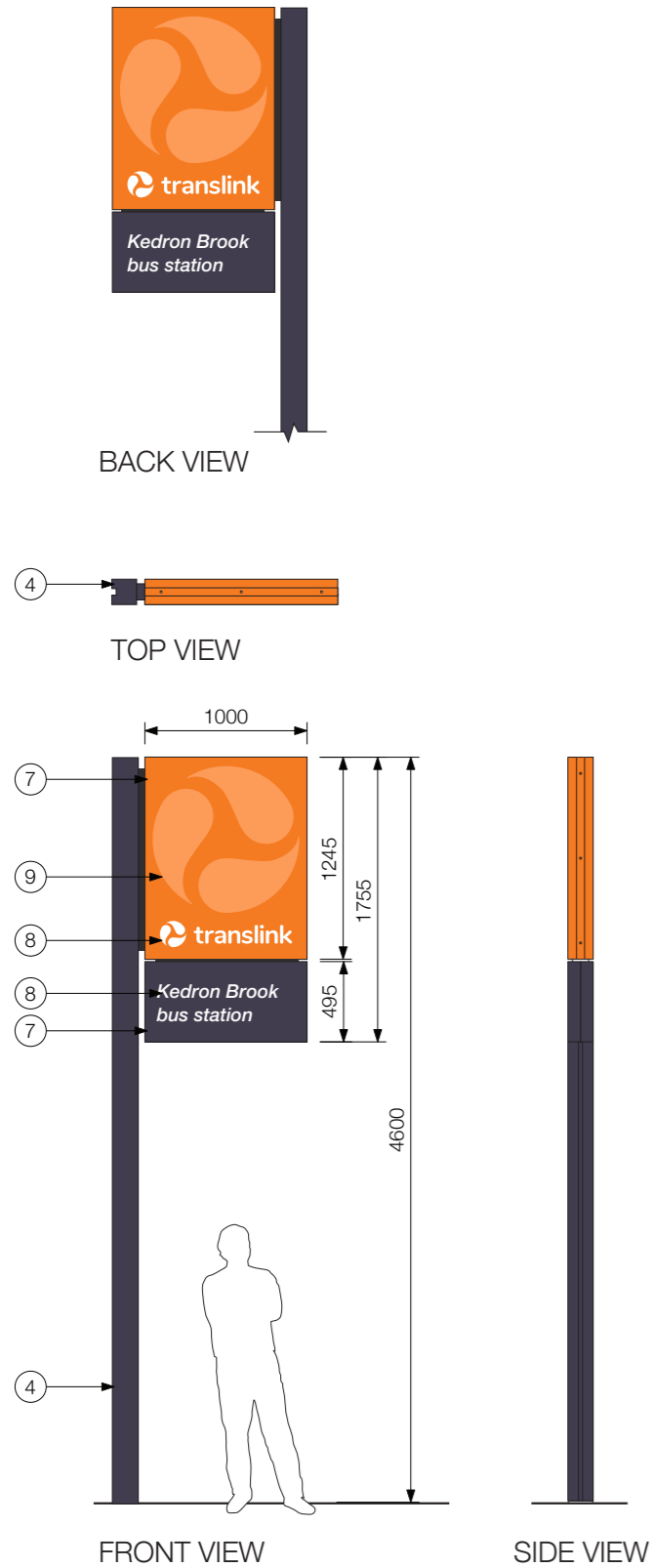
Pictograms = Opal

**Construction Details**

Refer 4.34.2 for details.

**NOTE:**

- Allow to connect to existing electrical supply including all electrical conduits.
- Provide timer or photo electric switch to regulate illumination. TMR to confirm hours of operation.



**Typical Elevation**

Scale 1:50



**Graphic Layout**

Scale 1:10

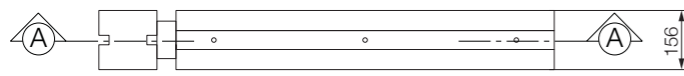
Sign Type

**PI-3a**

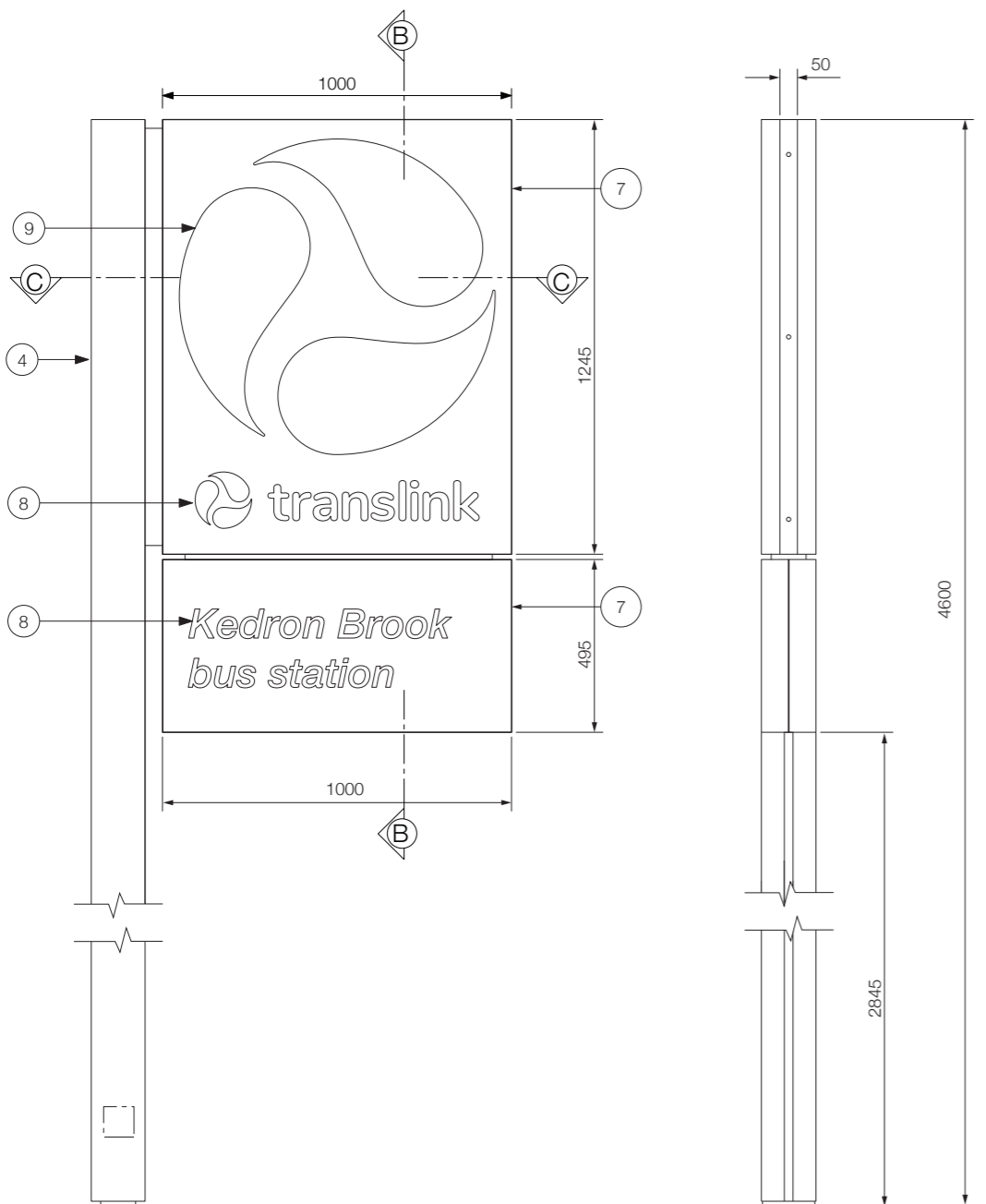
**Flagpole Identification Sign - Support sign only**

**Construction Details**

1. 150 x 100 x 6mm RHS galvanised steel pole with welded capping suitable for lifting lugs.
  2. 100 x 50 x 3mm RHS aluminium spacer with 2mm aluminium capping welded & dressed top & bottom.
  3. 50 x 50 x 6mm SHS galvanised steel horizontal members welded to pole.
  4. 2mm folded aluminium cladding fixed to outside of pole. 5mm minimum radius corners.
  5. Internally illuminated by LED backlight modules mounted to backing panel on both sides. LED layout indicative only. Signmaker to provide control gear. Refer to specification for LED requirements. Sign should be illuminated during all hours of operation.
  6. 20 x 20 x 3mm SHS galvanised steel light supports welded to horizontal members to hold LED backing panels.
  7. Fabricated 3mm thick double sided aluminium sign box. Cut through logo and graphics on both sides of face. Internal channel frame welded inside box to align with horizontal members. Provide adequate drainage / ventilation to prevent condensation.
  8. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  9. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  10. Stainless steel bolts and screws to engineers specification. Provide flashing and spacers as required. Security screw heads to be used where visible, paint out to match background colour.
  11. Power conduits to be concealed within structure. Isolators and control gear to be located in a secure accessible location for service.
  12. Signmaker's engineer to specify base plate, footing and structural details. Signmaker to co-ordinate installation with Managing Contractor / TMR Representative. Finish of footing to be coordinated with paving.
- NOTE:**
- Allow to connect to existing electrical supply including all electrical conduits.(TMR to inform power source.)
  - All joints between aluminium and acrylic to be sealed against weather.
  - Provide timer or photo electric switch to regulate illumination. TMR to confirm hours of operation.



TOP VIEW

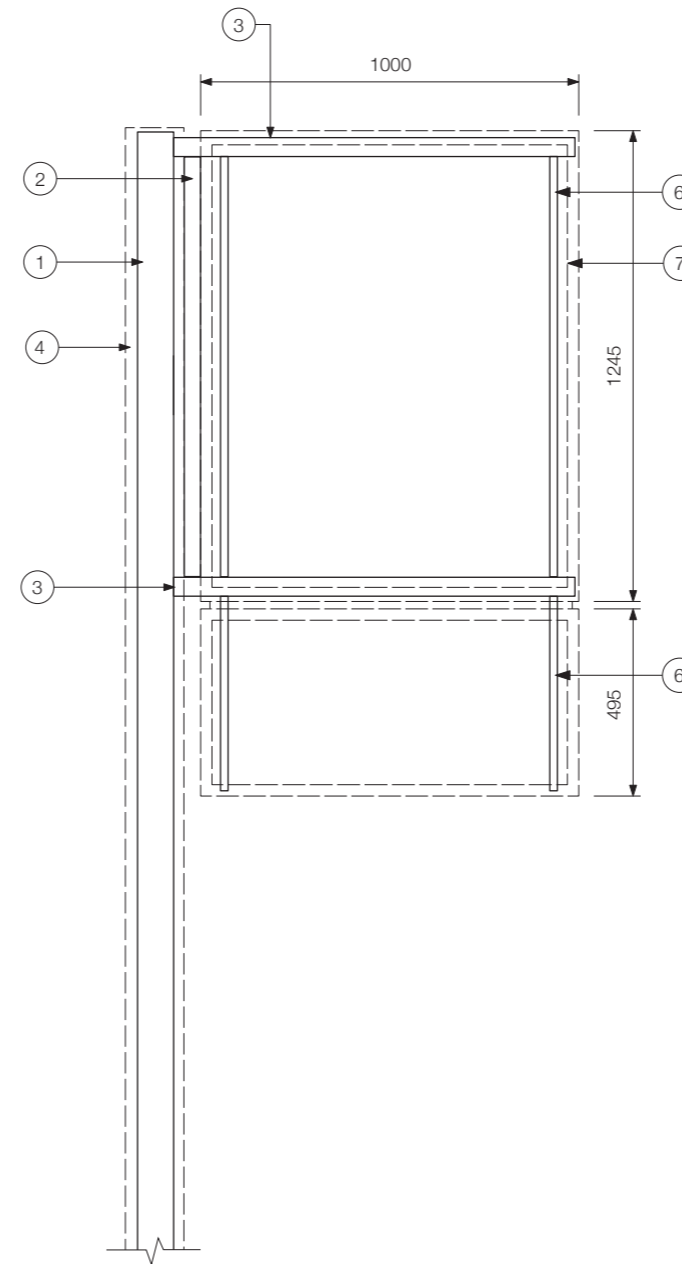


FRONT VIEW

SIDE VIEW

**Construction Details**

Scale 1:20



FRONT VIEW

**Flagpole Framing**

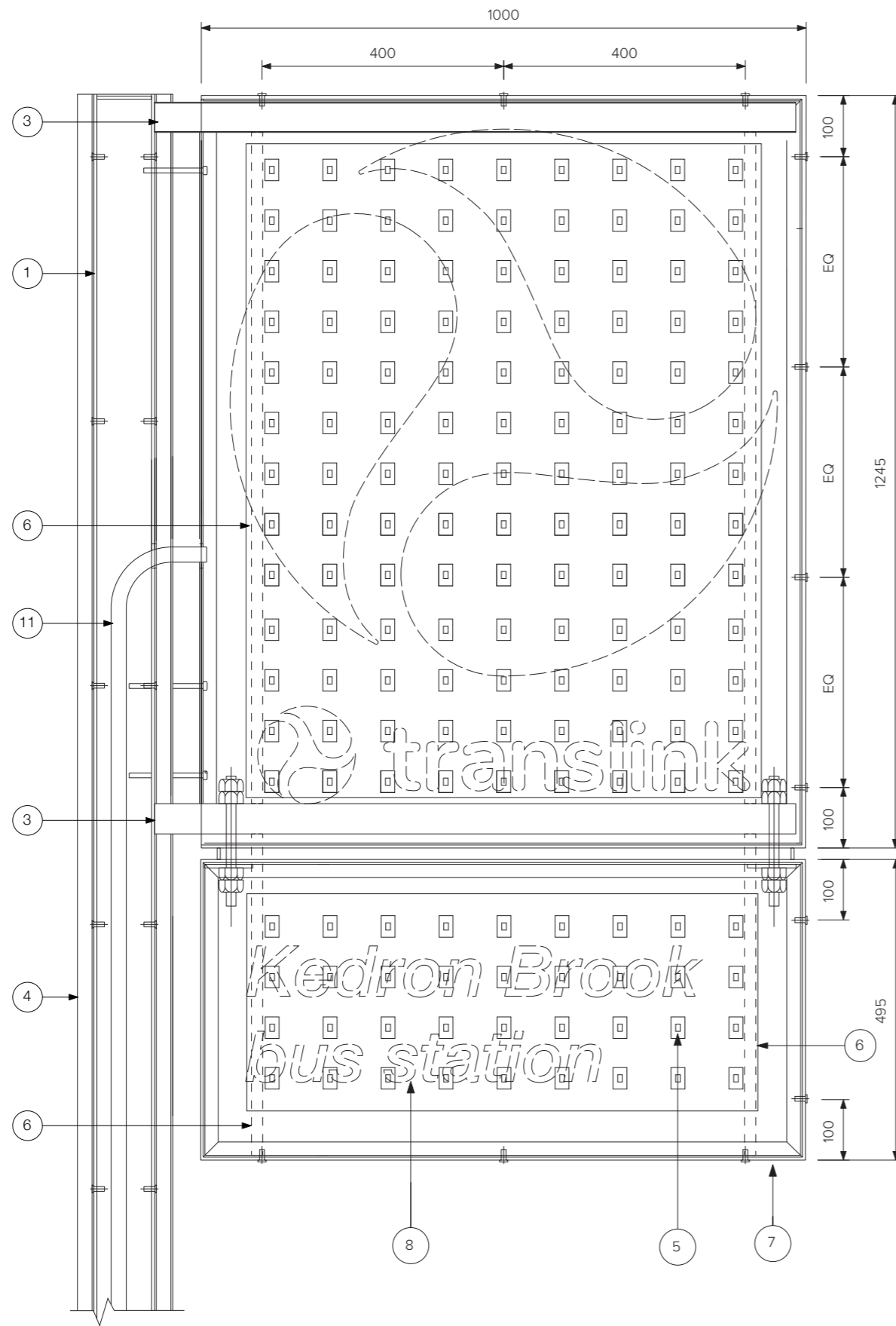
Scale 1:20

Sign Type

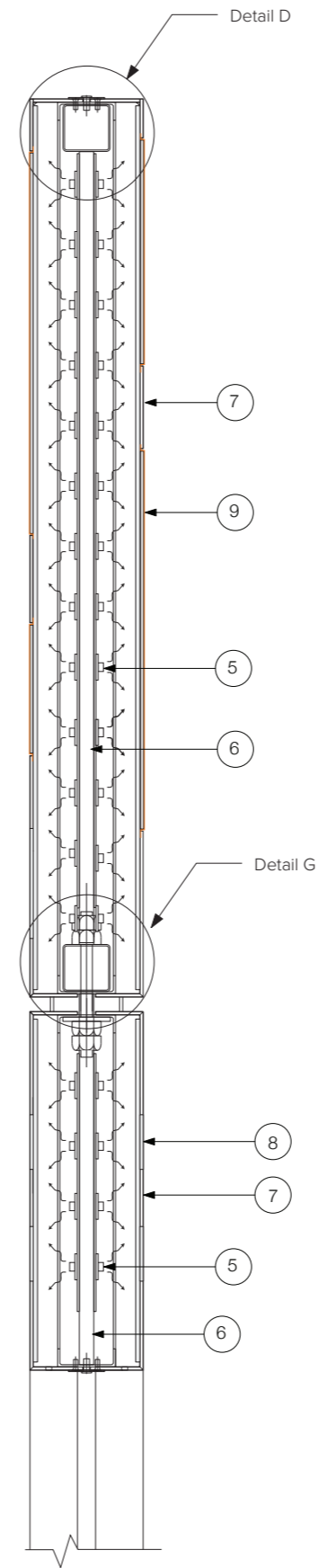
**PI-3a**

Flagpole Identification Sign - Support sign only

Construction Details  
Refer 4.34.2 for details.



**Section A-A**  
Scale 1:10



**Section B-B**  
Scale 1:10

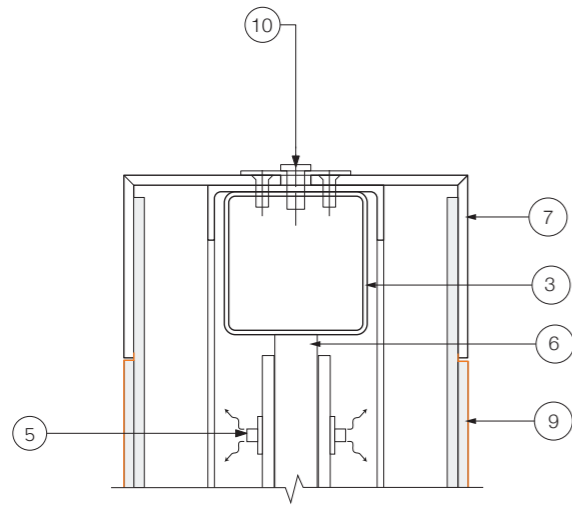


Sign Type

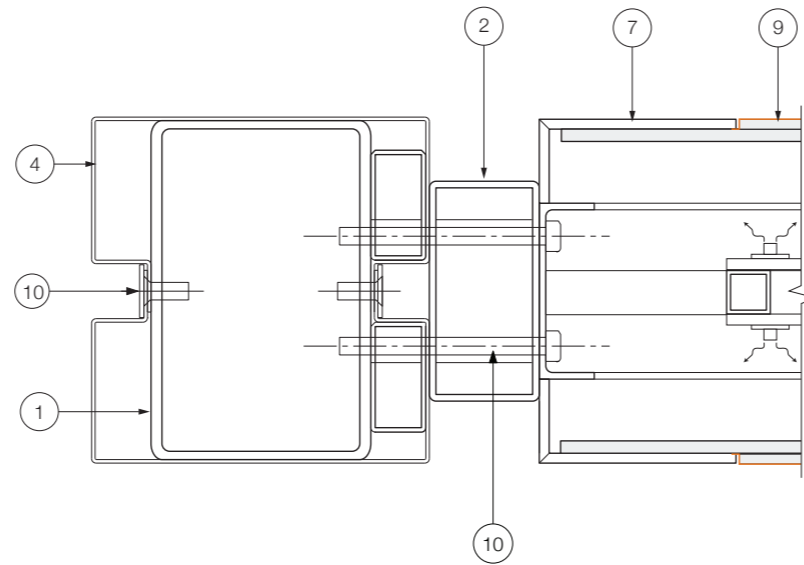
**PI-3a**

Flagpole Identification Sign - Support sign only

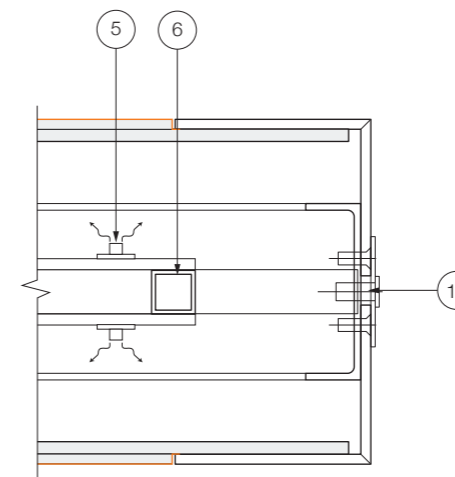
Construction Details  
Refer 4.34.2 for details.



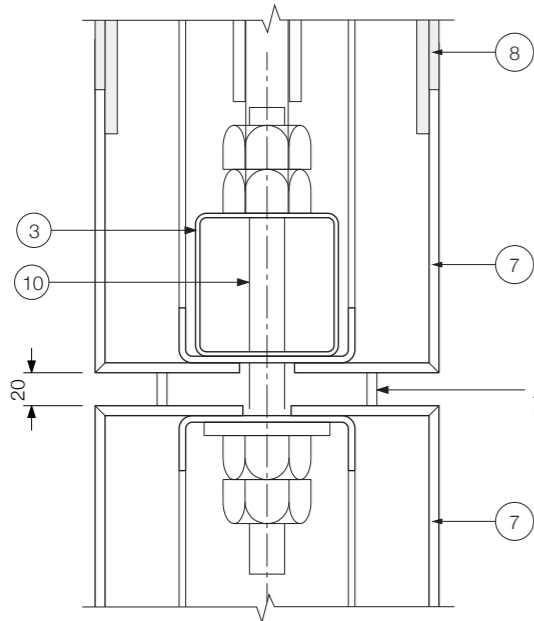
**Detail D**  
NTS



**Detail F**  
NTS

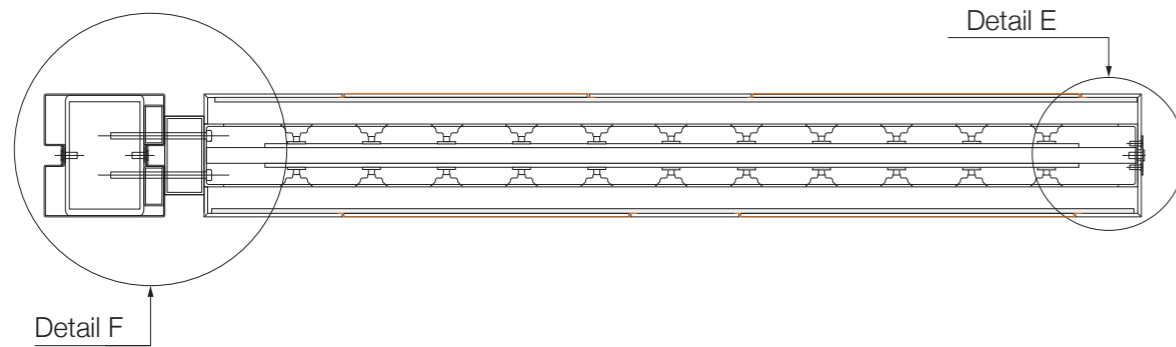


**Detail E**  
NTS

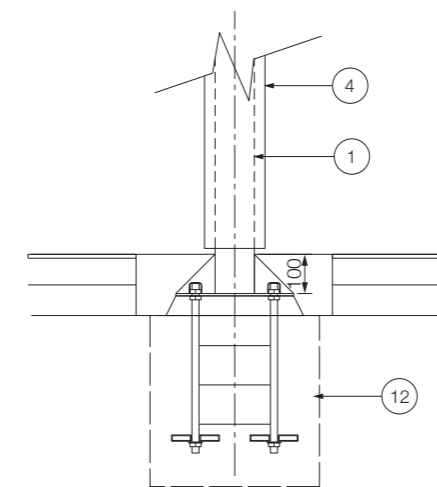


Aluminium plate spaces  
between sign boxes

**Detail G**  
NTS



**Section C-C**  
Scale 1:10



**Base Plate Front Elevation**  
NTS

**PI-3b**

**Flagpole Identification Sign**

**Purpose**

- Main sign to identify site / station / park 'n' ride from major approaches
- For pedestrian and vehicular use

**Typical location**

- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Where the station is located on a side road off a main road there may be a need to provide additional Major Identification signs at the intersection of the main road.
- Located in either TMR or Other's property depending on site constraints.
- Note:- If located outside TMR property, owner to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.
- Sign post to be located outside required pedestrian paths of travel. Obtain advice from TransLink and the property owner prior to finalising locations.

**Indicative message**

- Name of station, pictogram and service operator

**Station naming strategy**

- If signs are located at rail and bus station together use 'station' only.
- If signs are located at bus station only use 'bus station'.

**Graphics Detail**

**FONT**

All text = Helvetica Neue 66 Medium Italic

**SIZE**

- Translink graphic = 1080mm high (proportional width)
- Translink logo = 195mm high (proportional width)
- Station name = 125mm cap X height
- Transport pictograms = 220mm high
- Logos = 140mm high (proportional width)

**COLOUR**

*Panel Backgrounds*

- TransLink background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)
- Other background = Resene 'Jon' N38-007-359

*Sign Structure*

- Sign structure = Resene 'Jon' N38-007-359
- Sign structure shadowlines = Resene 'Jon' N38-007-359

*Illuminated graphics*

- TransLink logo tint = Arlon Tangerine 84 translucent vinyl
- TransLink logo = Opal
- Station name = Opal
- Pictograms = Opal

*Non-illuminated graphics*

- Qld Govt logo = Vinyl Arlon White
- Dividing line = Arlon Matt Black 40

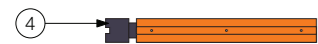


BACK VIEW

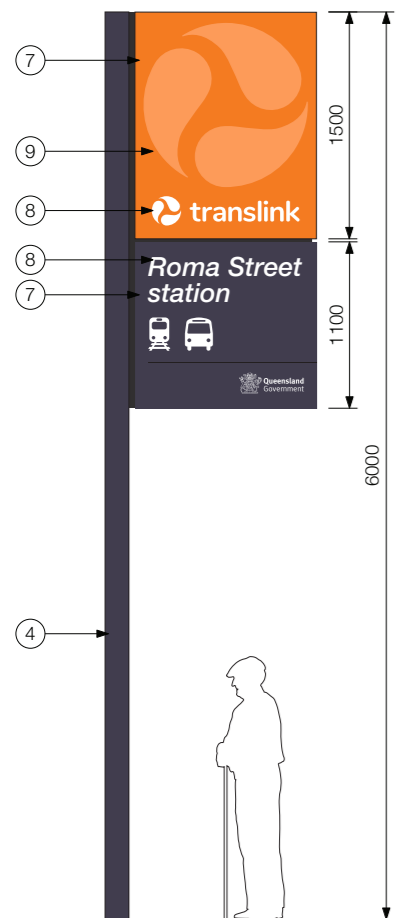


Graphic Layout - Bus station only

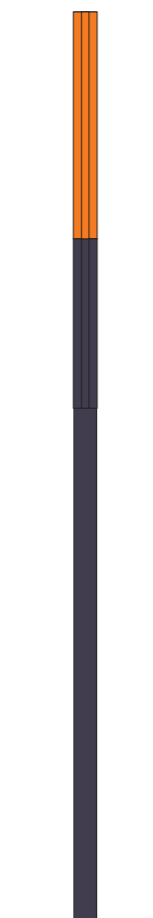
Scale 1:50



TOP VIEW



FRONT VIEW



SIDE VIEW

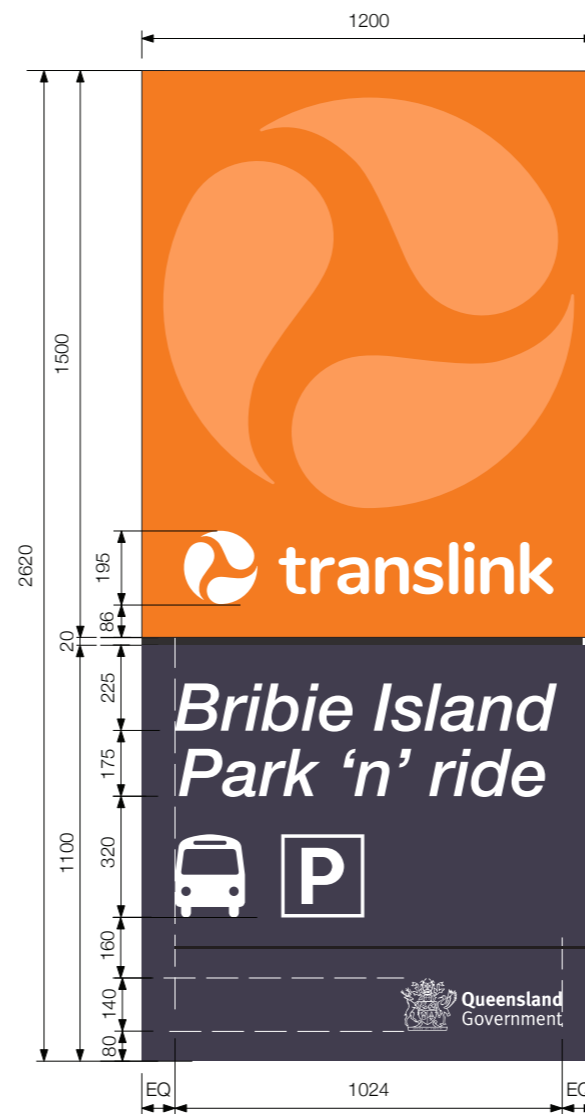
**Typical Elevations**

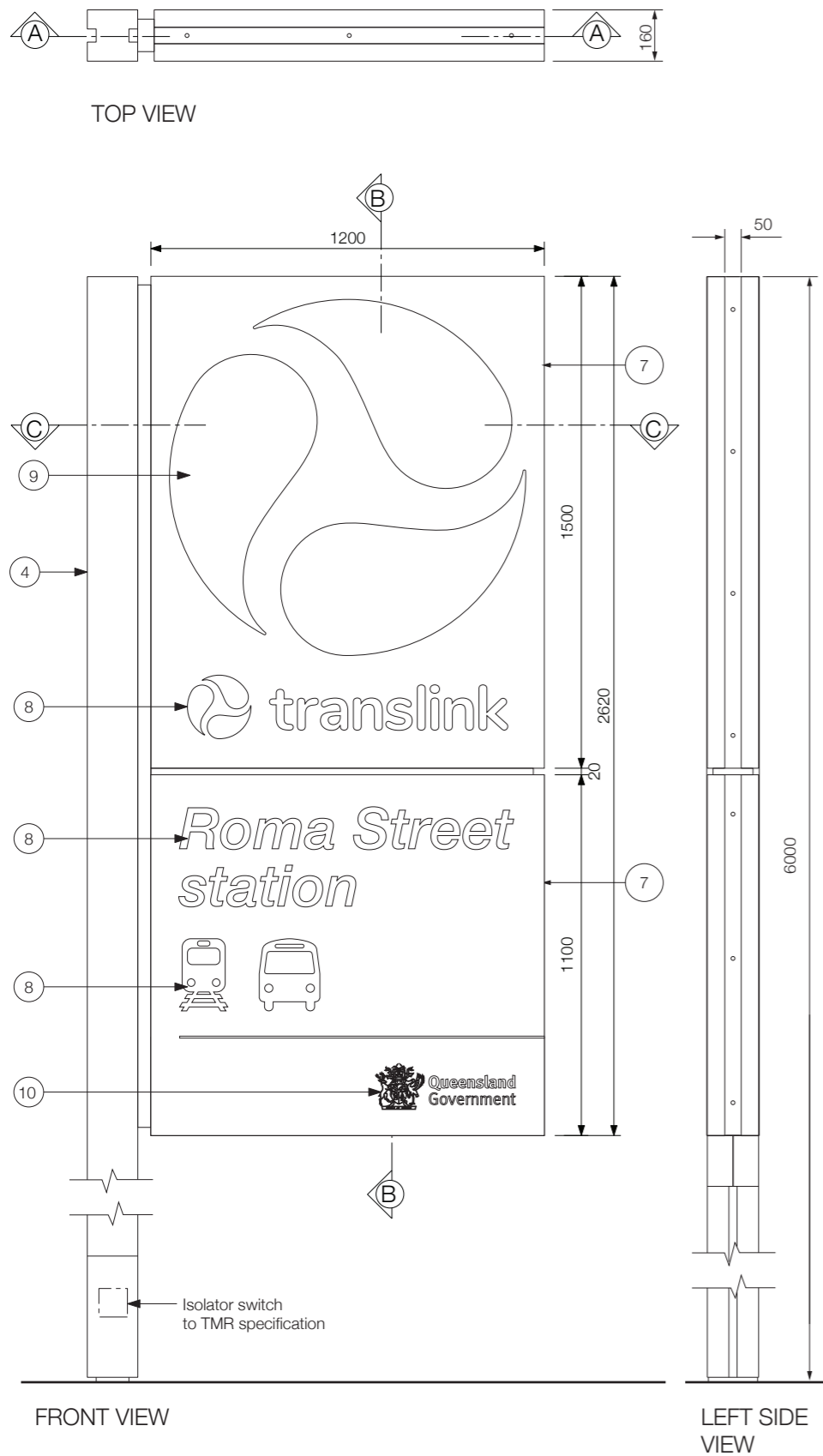
Scale 1:50



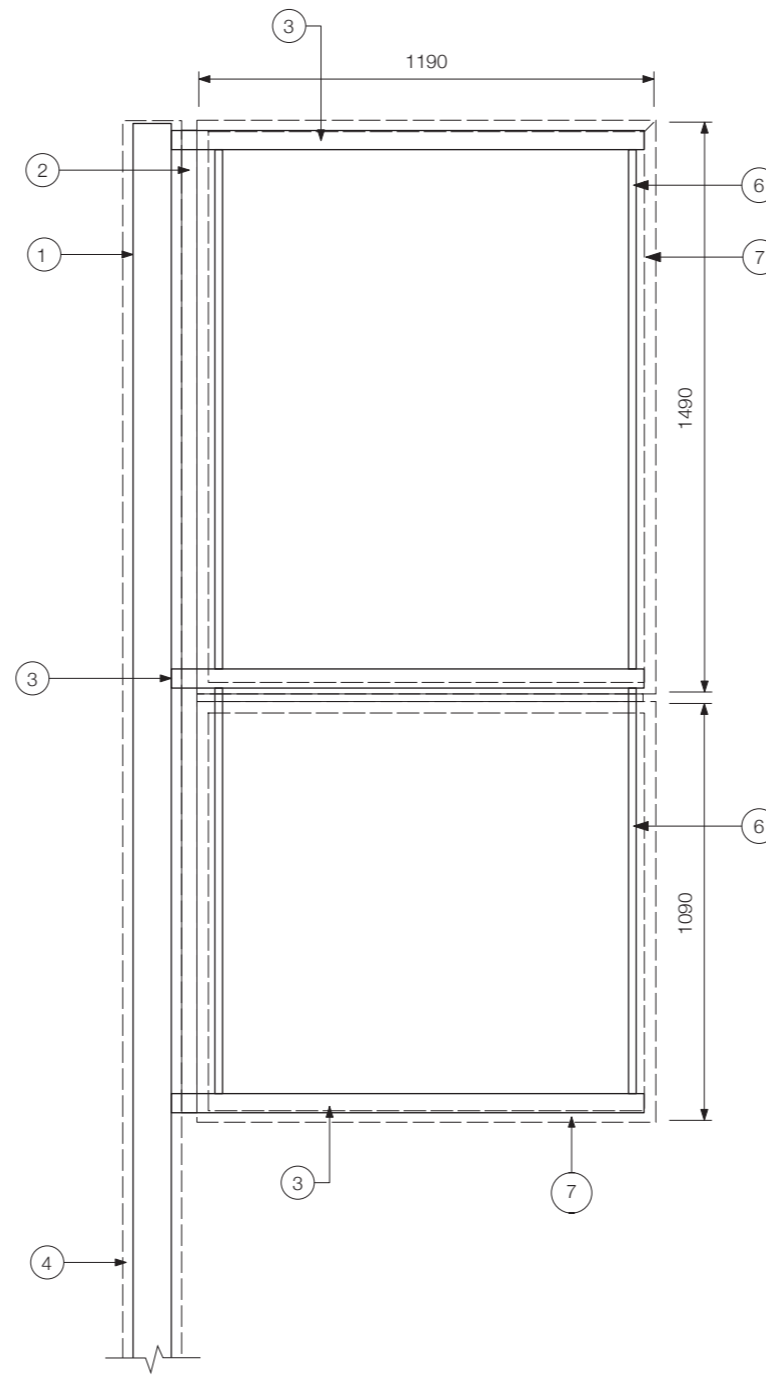
**Graphic Layout**

Scale 1:20





**Construction Elevations**  
Scale 1:20



**Flagpole Framing**  
Scale 1:20

Sign Type

**PI-3b**

**Flagpole Identification Sign**

**Construction Details**

1. 150 x 100 x 6mm RHS galvanised steel pole with welded capping suitable for lifting lugs.
  2. 100 x 50 x 3mm RHS aluminium spacer with 2mm aluminium capping welded & dressed top & bottom.
  3. 50 x 50 x 6mm SHS galvanised steel horizontal members welded to pole.
  4. 2mm folded aluminium cladding fixed to outside of pole. 5mm minimum radius corners.
  5. Internally illuminated by LED backlight modules mounted to backing panel on both sides. LED layout indicative only. Signmaker to provide control gear. Refer to specification for LED requirements. Sign should be illuminated during all hours of operation.
  6. 20 x 20 x 3mm SHS galvanised steel light supports welded to horizontal members to hold LED backing panels.
  7. Fabricated 3mm thick double sided aluminium sign box. Cut through logo and graphics on both sides of face. Internal channel frame welded inside box to align with horizontal members. Provide adequate drainage / ventilation to prevent condensation.
  8. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  9. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
  10. Non illuminated front applied vinyl key line and QLD Government logo applied to both sides of sign face.
  11. Stainless steel bolts and screws to engineers specification. Provide flashing and spacers as required. Security screw heads to be used where visible, paint out to match background colour.
  12. Power conduits to be concealed within structure. Isolators and control gear to be located in a secure accessible location for service.
  13. Signmaker's engineer to specify base plate, footing and structural details. Signmaker to co-ordinate installation with Managing Contractor / TMR Representative. Finish of footing to be coordinated with paving.
- NOTE:**
- Allow to connect to existing electrical supply including all electrical conduits.(TMR to inform power source.)
  - All joints between aluminium and acrylic to be sealed against weather.
  - Provide timer or photo electric switch to regulate illumination. TMR to confirm hours of operation.

Sign Type

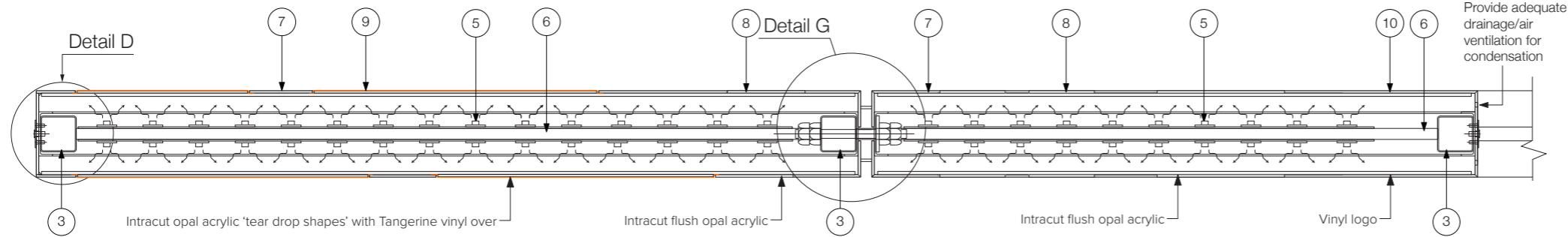
**PI-3b**

**Flagpole Identification Sign**

**Construction Details**

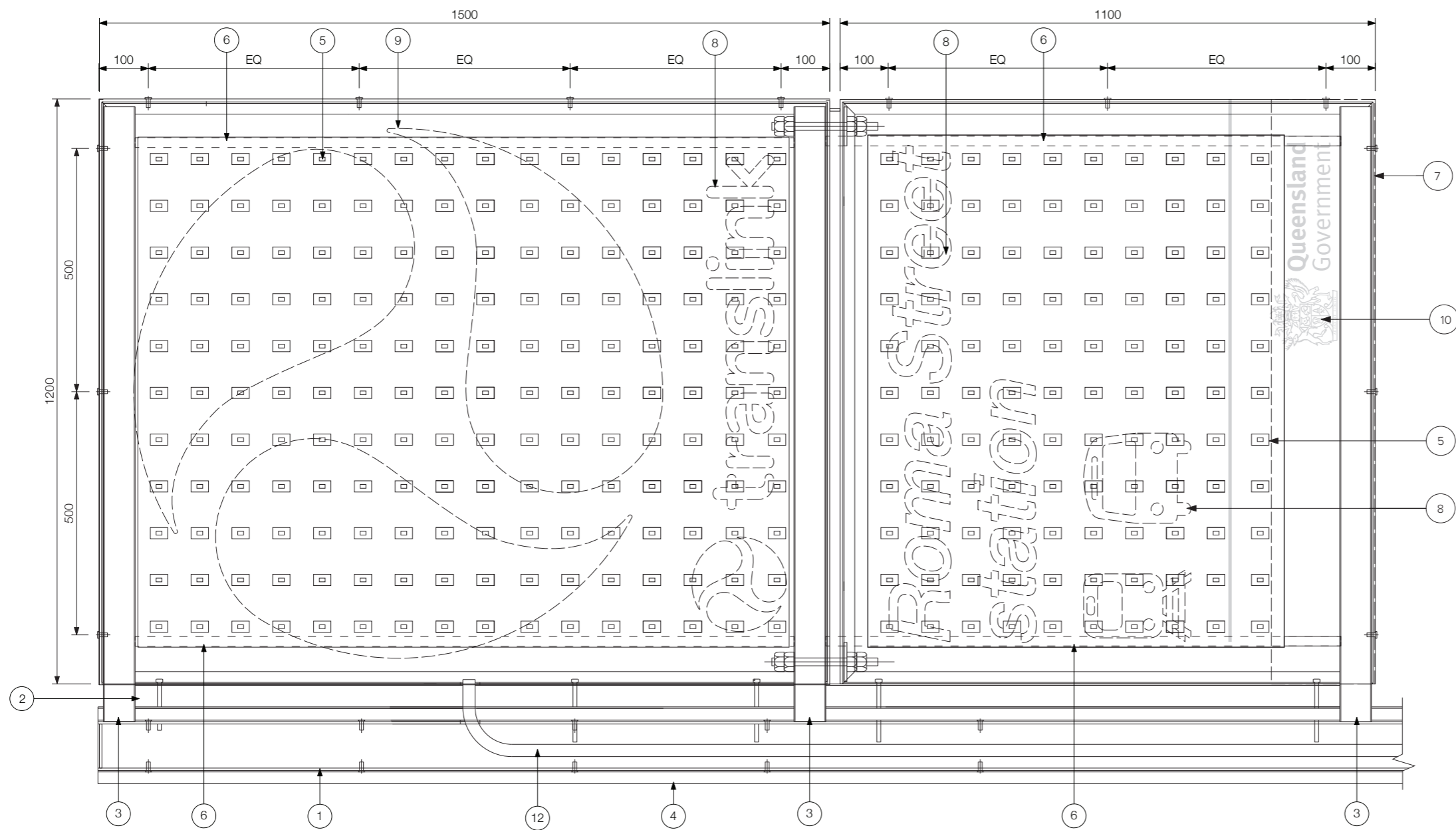
Refer 4.35.2 for details.

Note: Drawing has been rotated to fit on page.



**Section B-B**

Scale 1:10



**Section A-A**

Scale 1:10

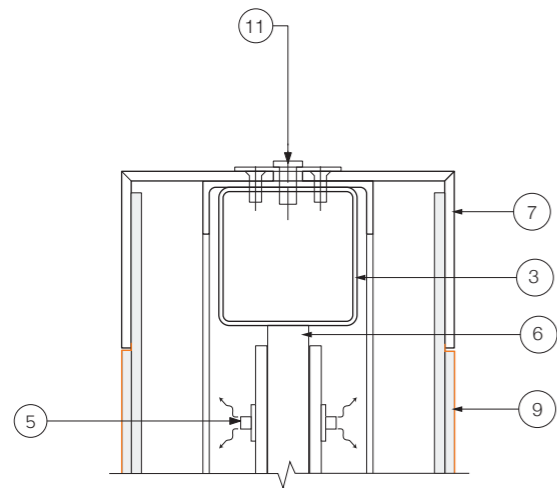
Sign Type

**PI-3b**

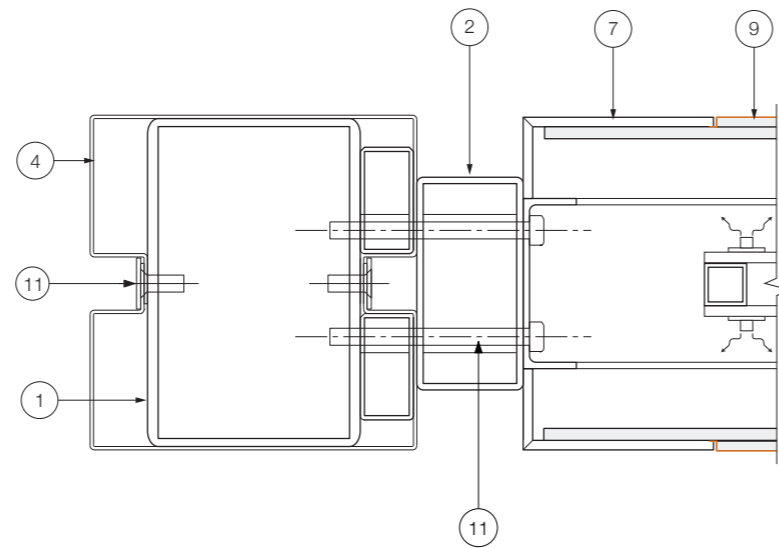
**Flagpole Identification Sign**

Construction Details

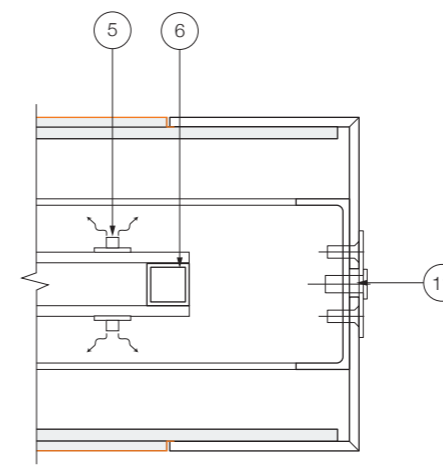
Refer 4.35.2 for details.



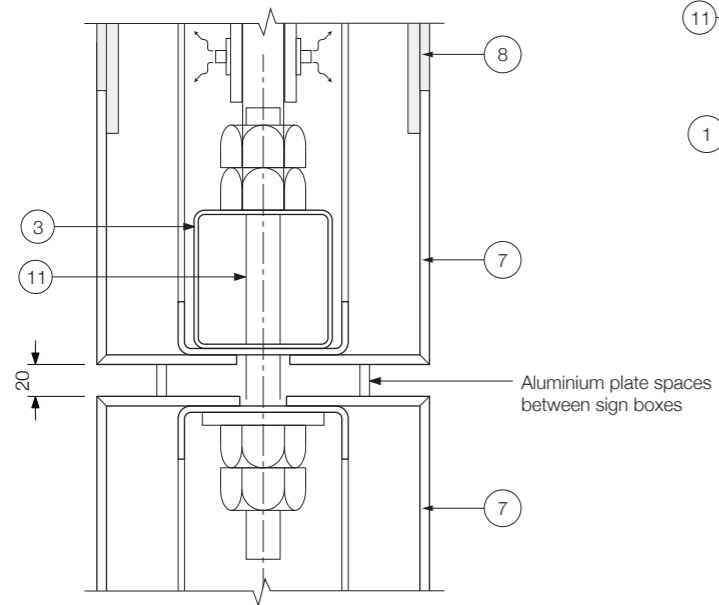
**Detail D**  
NTS



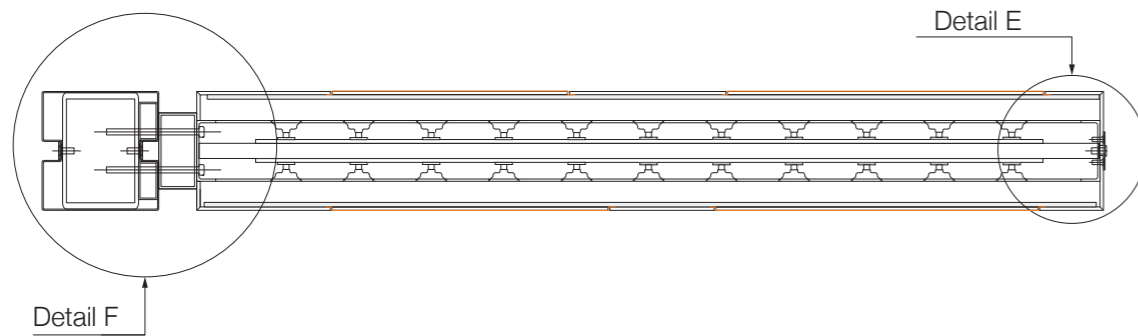
**Detail F**  
NTS



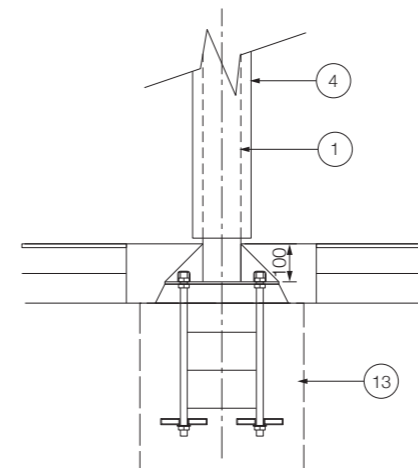
**Detail E**  
NTS



**Detail G**  
NTS



**Section C-C**  
Scale 1:10



**Base Plate Front Elevation**  
NTS

Sign Type

**PI-3c**

**Projecting Identification Sign**

**Purpose**

- Main sign to identify site / station from major approaches
- For pedestrian and vehicular use

**Typical location**

- Fixed to building structure.
- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.

**Indicative message**

- Name of station, pictogram and service operator

**Graphics Detail**

**FONT**

Station name = Helvetica Medium 66 Italic

**SIZE**

Station Name = 196mm cap X height  
 Bus pictogram = 300mm high  
 Qld Govt logo = 210mm high (proportional width)

**COLOUR**

*Panel Backgrounds*

TransLink background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)  
 Other background = Resene 'Jon' N38-007-359

*Sign Structure*

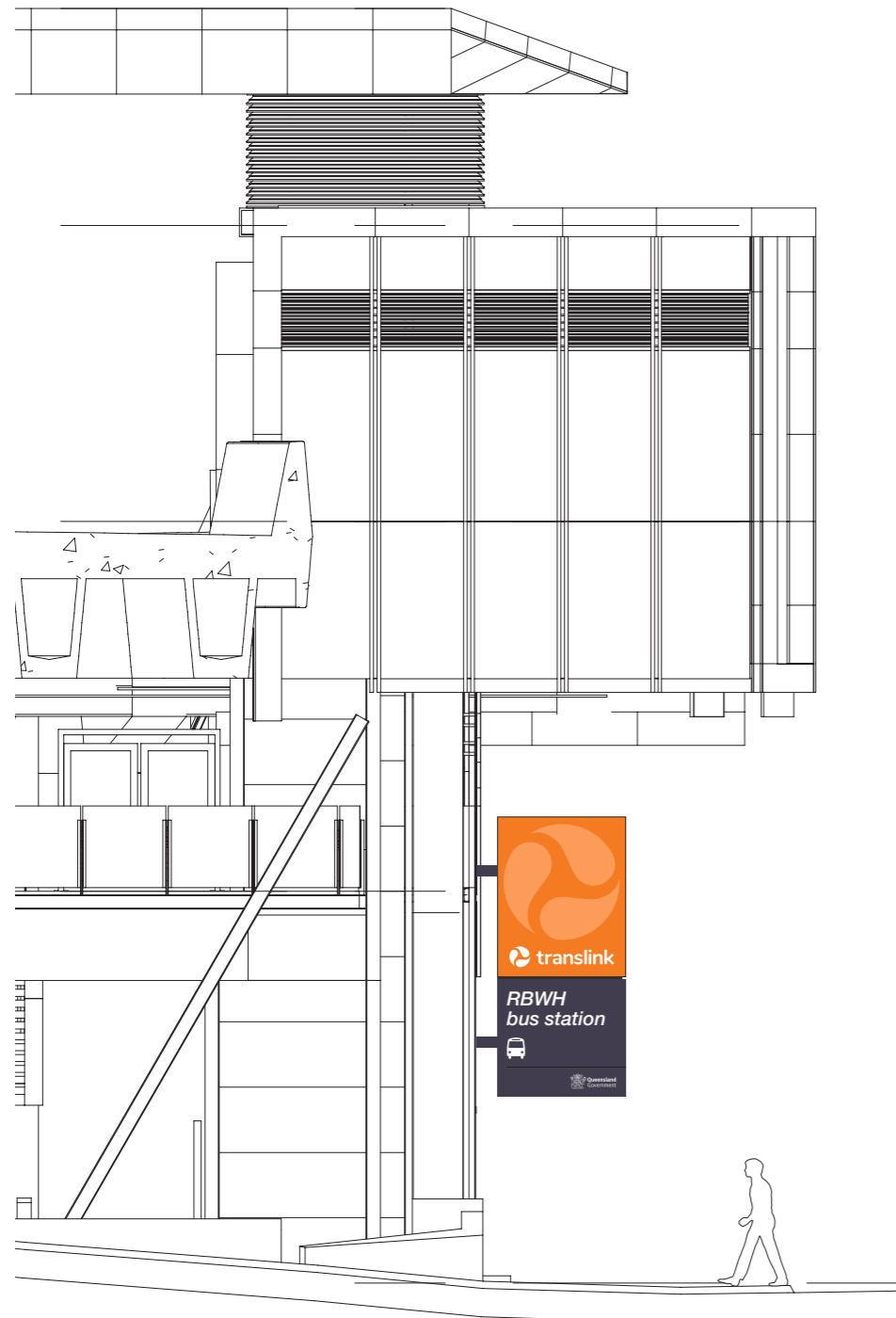
Sign structure = Resene 'Jon' N38-007-359  
 Sign structure shadowlines = Resene 'Jon' N38-007-359

*Illuminated graphics*

TransLink logo tint = Arlon Tangerine 84 translucent vinyl  
 TransLink logo = Opal  
 Station name = Opal  
 Pictograms = Opal

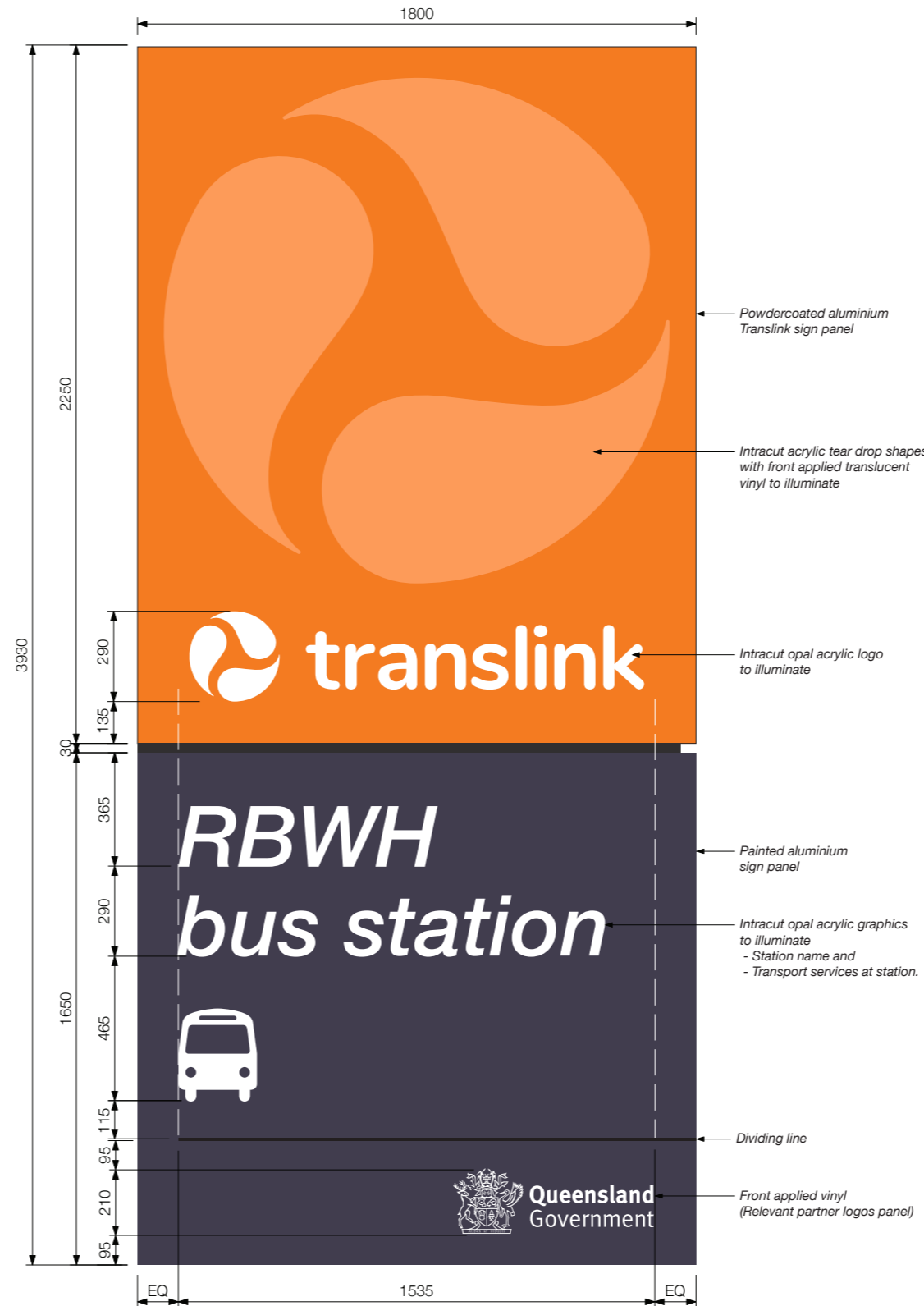
*Non-illuminated graphics*

Qld Govt logo = Vinyl Arlon White  
 Dividing line = Arlon Matt Black 40



**Typical Location**

Scale 1:100



**Graphic Layout**

Scale 1:20

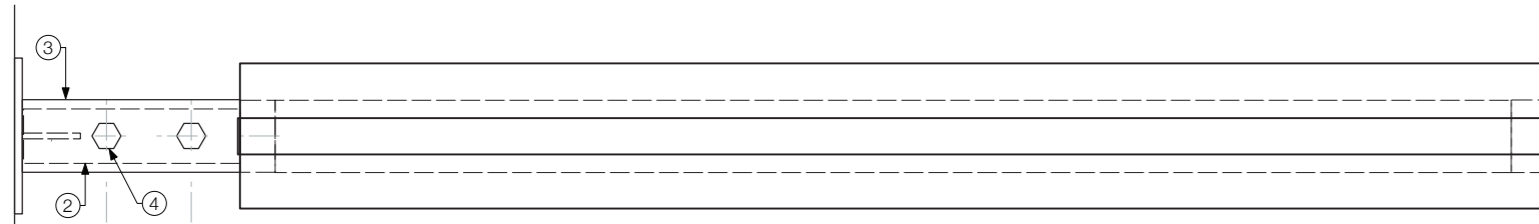
Sign Type

**PI-3c**

**Projecting Identification Sign**

**Construction Details**

1. Fabricated 3mm thick double sided aluminium sign box. Cut through logo and graphics on both sides of face. Internal channel frame welded inside box as required. Provide adequate drainage / ventilation to prevent condensation.
2. 75 x 75 (nominal) SHS steel support welded/bolted to station structure (to be co-ordinated with structural steel work). Welded gussets and fixing plates to suit.
3. 100 x 100 (nominal) SHS aluminium mounting sleeves with pre-drilled holes and cut out slot for gusset. Cut out slot to be clearance fit.
4. M16 S.S. 316 bolts & lock nuts to fix mounting sleeves to steel support.
5. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
6. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.
7. Internally illuminated by LED backlight modules mounted to backing panel. Signmaker to provide control gear. Sign to be illuminated during all hours of station operation. Refer to specification for LED requirements. Not shown on drawing.
8. Non illuminated front applied vinyl line and Queensland Government/partner logo on both sides.
9. 2mm thick aluminium capping. M8 SS 316 security socket head machine screws fixing aluminium plate to internal frame.



**Top View**  
Scale 1:10



**Sign Elevations**  
Scale 1:20

Sign Type

**PI-4**

**Banner Sign - Support sign only**

**Purpose**

- Secondary sign to identify station from major approaches
- To be used as a support to the main identification sign
- For pedestrian and vehicular use

**Typical location**

- Fixed to building structure
- Sign to be located to outside face of arrival structure

**Indicative message**

- Name of station (and graphic treatment)

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 76 Bold Italic

**SIZE**

Translink logo = 145mm high (proportional width)  
Station name = 300mm cap X height

**COLOUR**

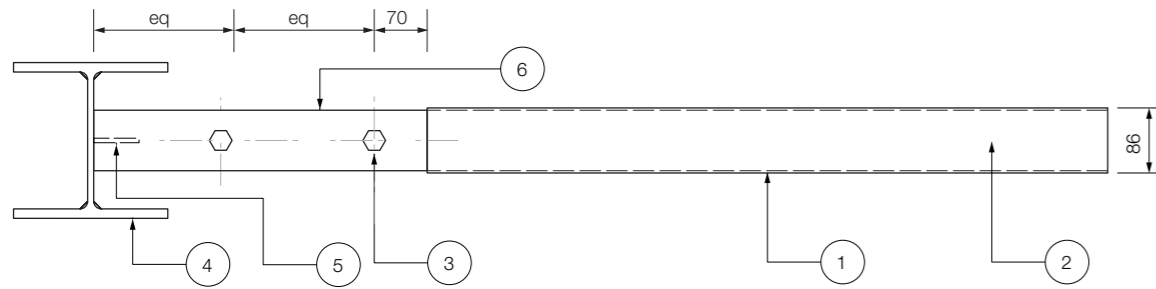
Panel background = to match Arlon 'Orange' 44  
Translink logo = Arlon White 02  
Station name = Arlon White 02

**Bus graphic linework**

Top & bottom bus = Avery 'Morning Orange' 937  
Middle bus = Avery 'Sweet Orange' 938  
Fixing Frame (outriggers) = Resene "Jon"

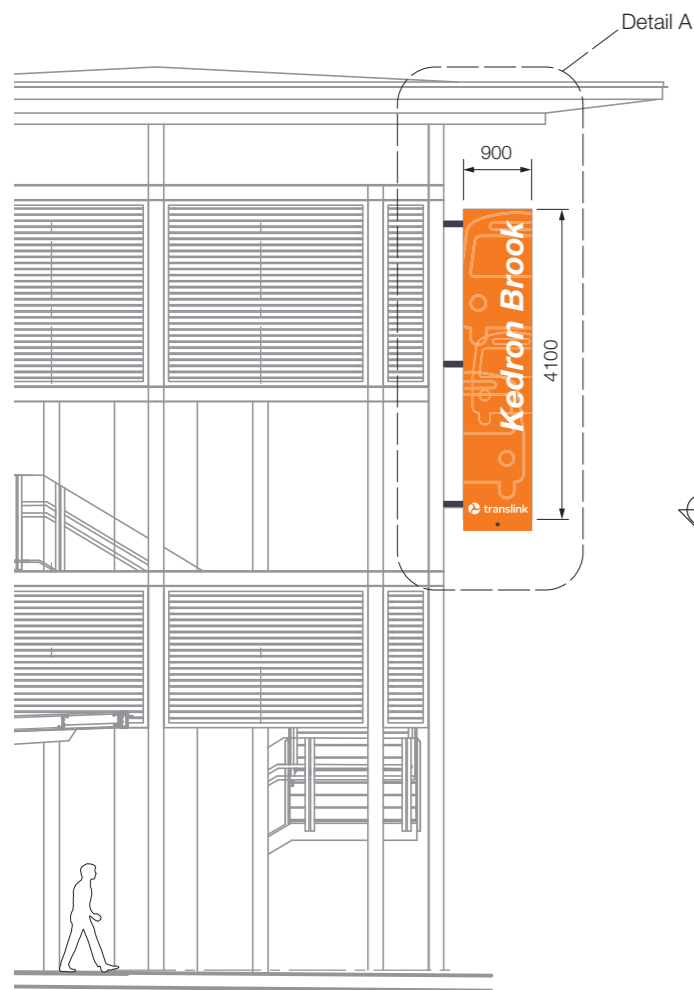
**Construction Details**

1. 3mm thick aluminium sign panel welded to frame. Prime and paint finished with front applied vinyl graphics. Protective anti-graffiti spray clear coat over.
2. Frame welded from 80 x 80 x 6mm SHS aluminium.
3. M16 stainless steel 316 bolt fix sign to station structure.
4. Station structure.
5. 6mm gusset welded above and below 65 x 65 x 3mm SHS Durgal support.
6. 80 x 80 x 6mm SHS aluminium mounting support with pre-drilled holes and cutout slot for gusset. Cutout slot to be clearance fit.



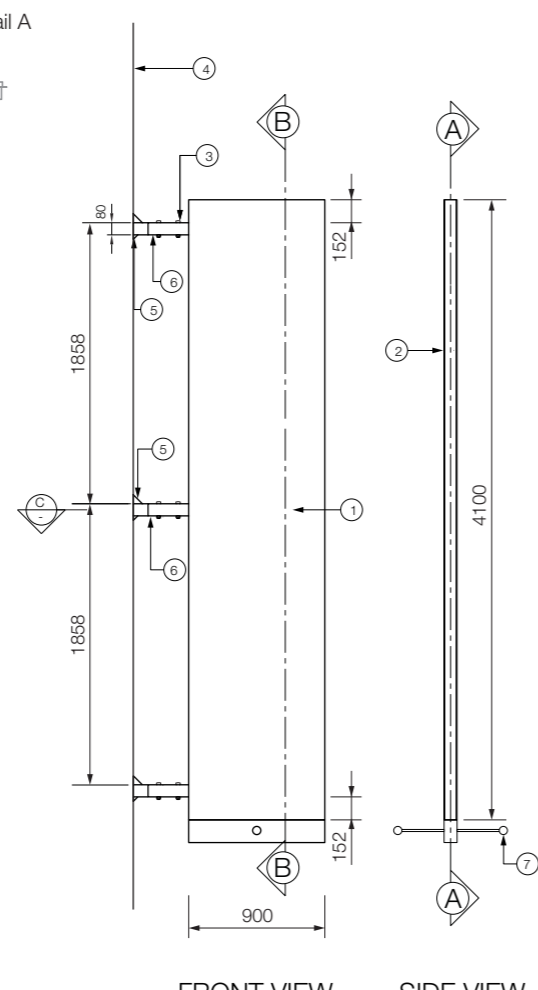
Top View

Scale 1:10



Typical Location

Scale 1:100

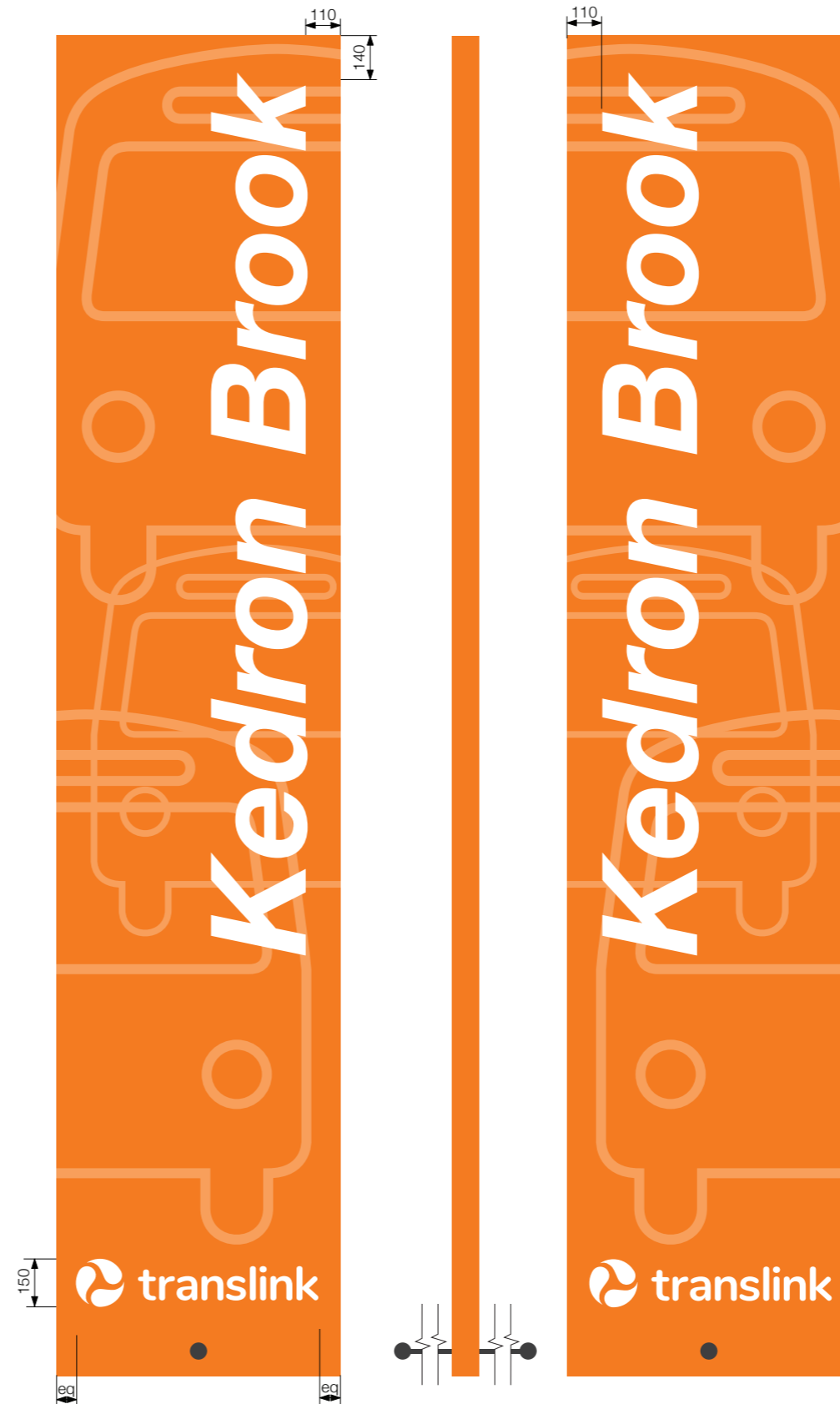


FRONT VIEW

SIDE VIEW

Detail A

Scale 1:50



FRONT VIEW

SIDE VIEW

BACK VIEW

Graphic Layout

Scale 1:20



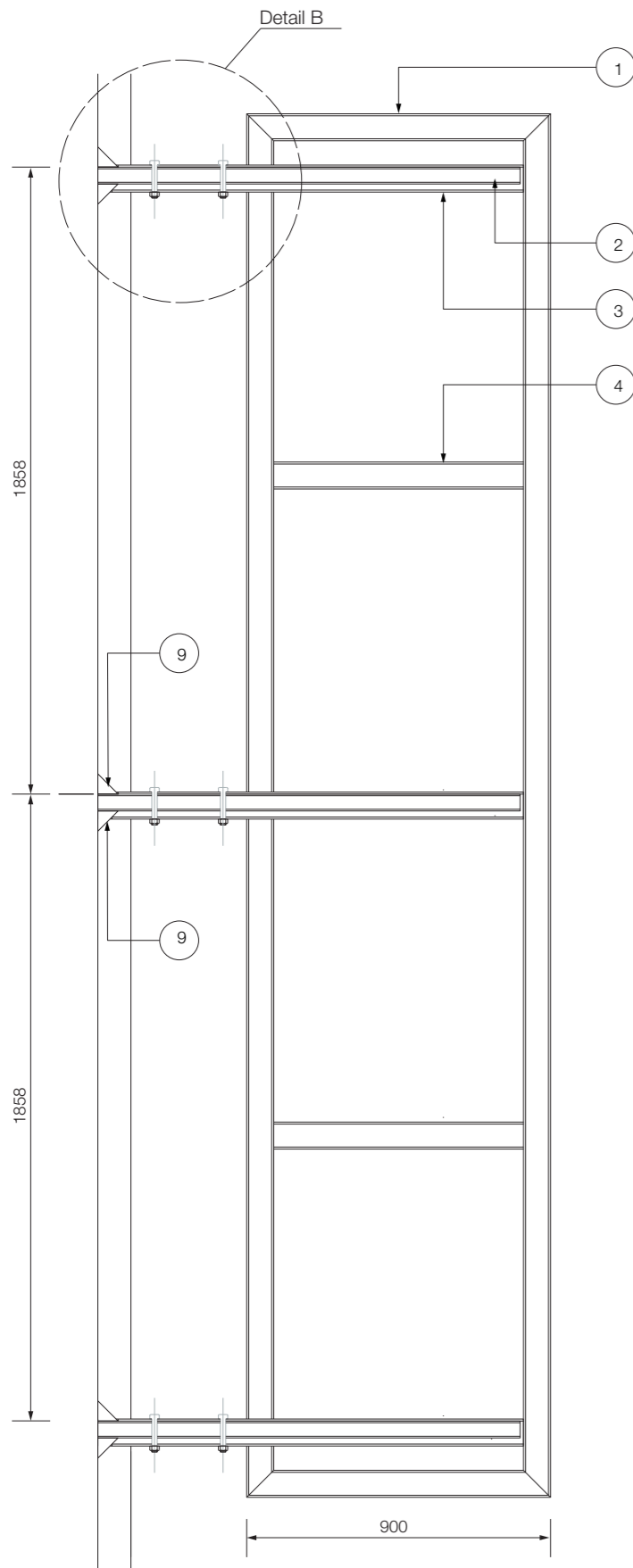
Sign Type

**PI-4**

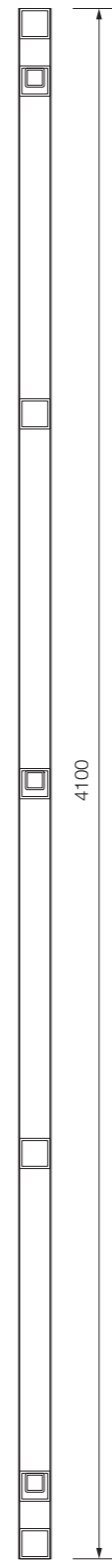
**Banner Sign - Support sign only**

**Construction Details**

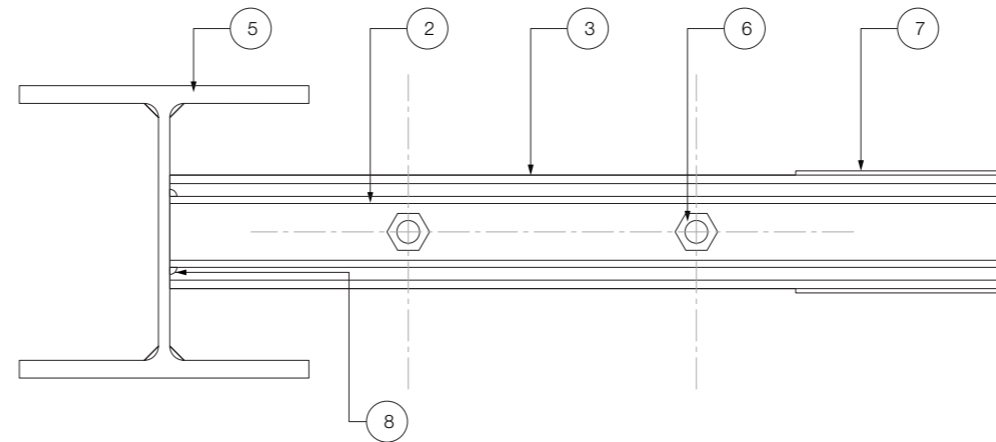
1. Frame welded from 80 x 80 x 6mm SHS aluminium.
2. 65 x 65 x 3mm SHS Duragal support welded to station structure.
3. 80 x 80 x 6mm SHS aluminium mounting support with pre-drilled holes and cutout slot for gusset. Cutout slot to be clearance fit.
4. 80 x 80 x 6mm SHS aluminium bracing.
5. Station structure.
6. M16 S.S. 316 bolt & lock nut fixing frame to 50 x 50 x 6mm SHS galvanised steel support.
7. 3mm aluminium panel welded to aluminium frame. All visible welds to be dressed. Primed and paint finished with front applied vinyl graphics. Protective anti-graffiti spray clear coat over.
8. CFW (Continuous Fillet Weld).
9. 8mm gusset welded above and below 65 x 65 x 5mm SHS Durgal support.
10. Uplights to both sides of banner sign. Lighting should provide even wash over entire face. Consult Alliance lighting engineer.



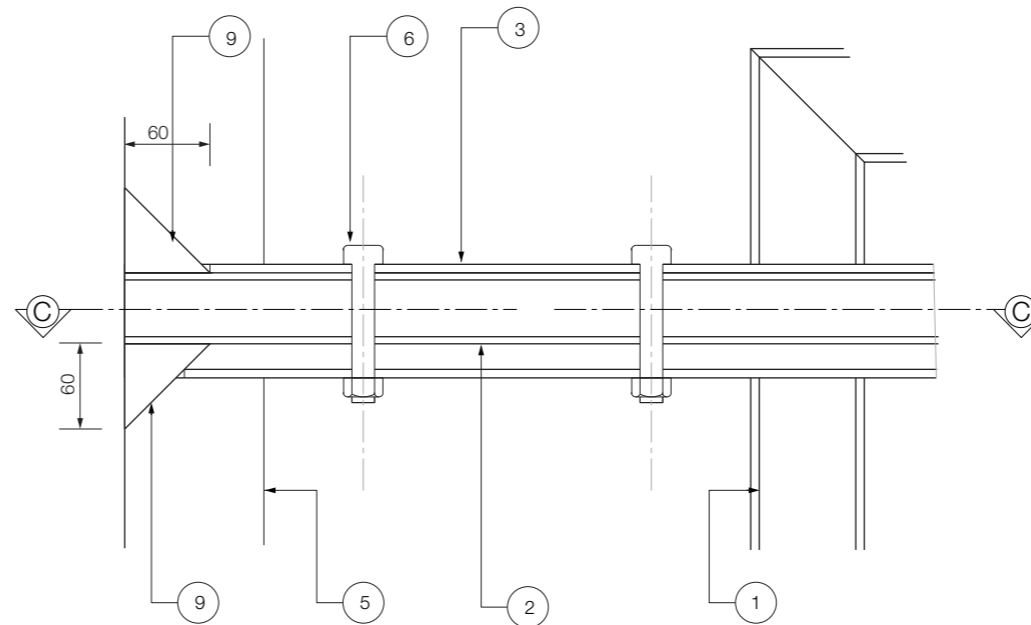
**Section A-A**  
Scale 1:20



**Section B-B**  
Scale 1:20



**Section C-C**  
Scale 1:5



**Detail B**  
Scale 1:5

Sign Type

**PI-5**

**Entry Identification Sign (Support sign only)**

**Purpose**

- Secondary sign to identify station from major approaches
- To be used as a support to the main identification sign
- For pedestrian and vehicle use

**Typical location**

- Located above main entry awning/structure near the central station area access
- Sign to face approaching pedestrians and/or vehicles from footpaths/setdown points or roadways as appropriate.

**Indicative message**

- TransLink logo
- Name of station

**NOTE**

- 'station' may be added to the PI-5 sign name where the facility is underground or hidden from view within the general precinct however this should be a site specific assessment with the relevant authorities'.
- 'station' may also be added to differentiate the public transport building with and adjacent facility such as a hospital (Eg. RBWH station)'.

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 76 Bold Italic

**SIZE**

Station name = 400mm cap X height  
 TransLink graphic = 460mm high (proportional width)  
 TransLink logo = 85mm high (proportional width)

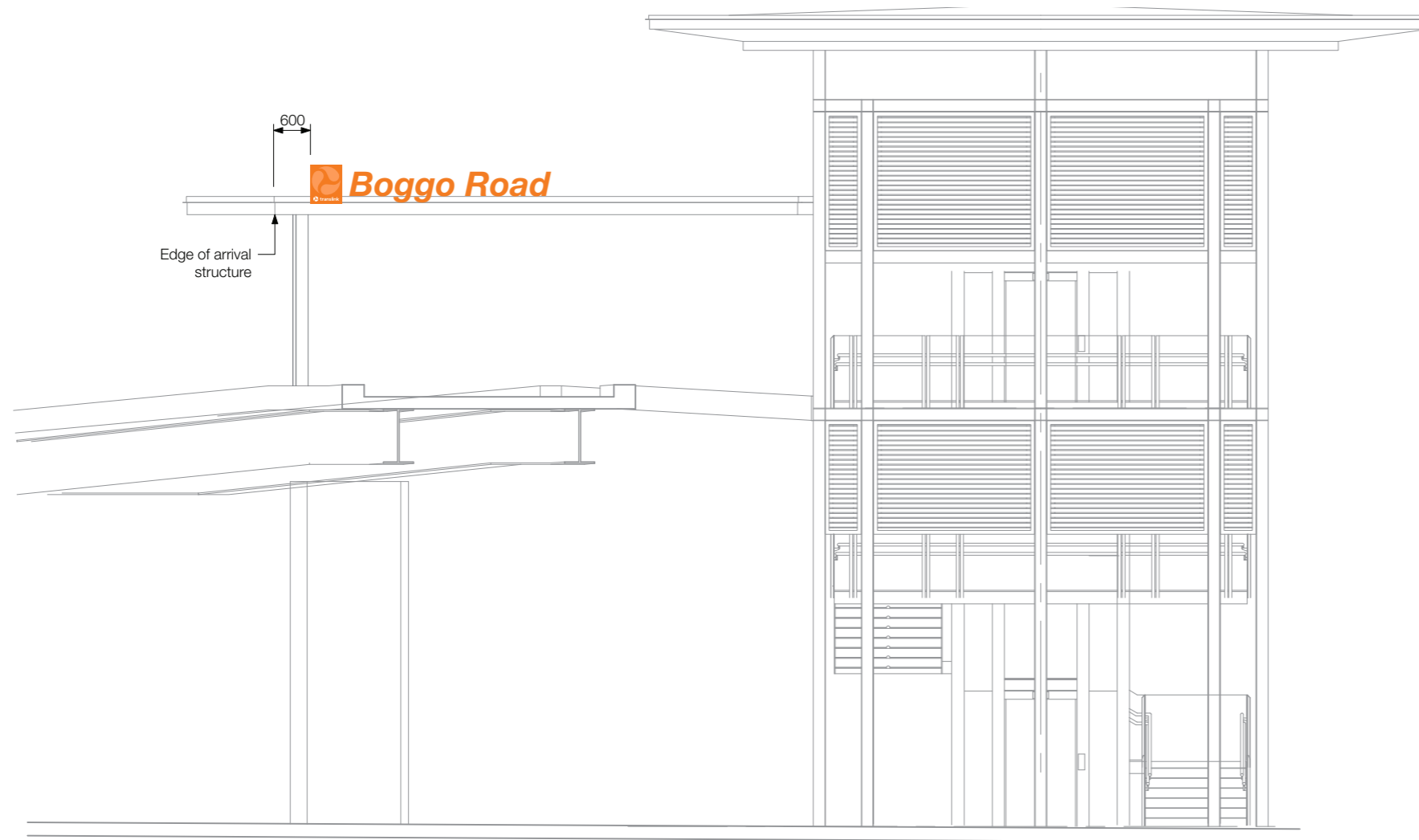
**COLOUR**

*Station name letters*

Station name = Perspex® Spectrum LED Orange 3TL1  
 Letter returns = Stainless steel No. 4 finish

*Logo light box*

Logo background = Dulux (MTO) Intensity Orange Gloss powdercoat (900-4008G)  
 TransLink logo tint = Arlon Tangerine 84 translucent vinyl  
 TransLink logo = Opal



**Typical Location**

Scale 1:100



**Graphic Layout**

Scale 1:20

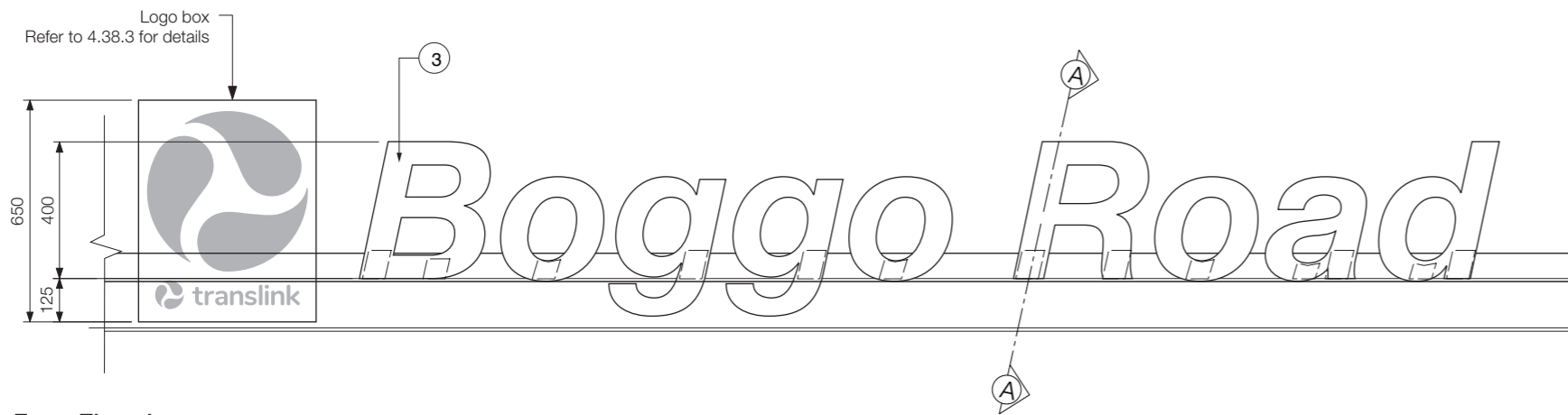
Sign Type

**PI-5**

**Entry Identification Sign (Support sign only)**

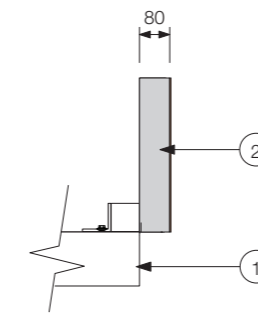
**Construction Details**

1. Station structure, confirm all details on site prior to manufacture.
  2. Fabricated stainless steel letters. 1.2mm thick backs with 1.0mm thick x 80mm wide folded returns welded to perimeter.
  3. 3mm thick Perspex® Spectrum LED Orange 3TL1 faces, with 6mm clear acrylic backing cut to fit inside of letter glued to back. Fixed to face of fabricated letter with concealed M4 SS 316 pan head screws through returns.
  4. Internally illuminated with Cool White LED backlights mounted to back of letters. Refer to specification for details.
  5. 65mm x 65mm x 3mm SHS fixing rail behind letters to conceal power. Typical 65mm x 65mm x 6mm angle bracket to fix to station structure. Suitable mechanical fixings to secure sign to roof structure. Rail and angle to be painted out to match station structure.
- Note: Where applicable, new stainless steel letters that replace existing neon lit letters are to be fixed onto existing site frame/rail.
6. Power cable connecting LED to transformer to be concealed within / behind structure. All cabling to be tied back neatly to structure. Seal any penetrations through structure. Transformer location to be coordinated with the Construction Representative. Signmaker to provide circuit breaker / fuse within light box. Sign should operate during evening hours of station operation.

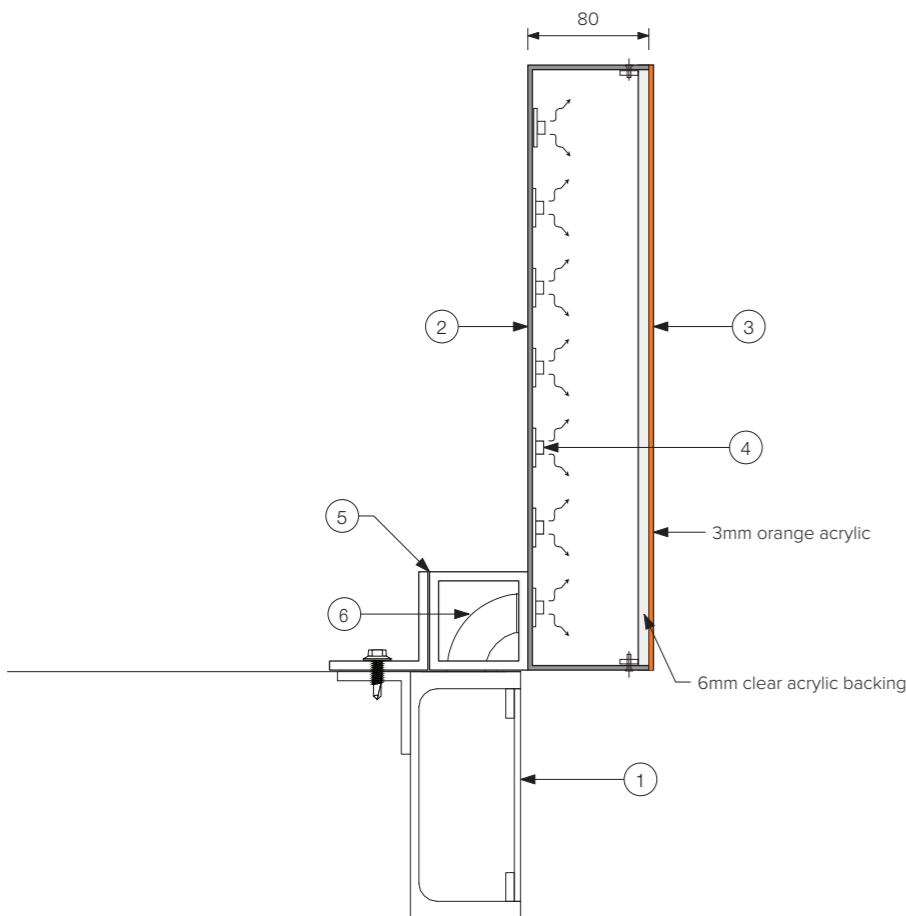


**Front Elevation**

Scale 1:20

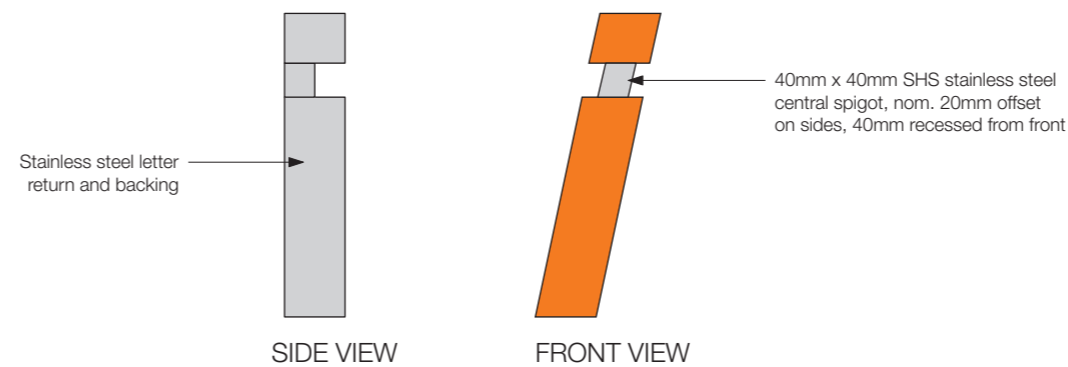


**SIDE VIEW**  
(letter shown)



**Section A-A – Typical Letter**

Scale 1:5



**Letter Detail for 'i' (Where required)**

Scale 1:10

Sign Type

**PI-5**

**Entry Identification Sign - Logo Box**

**Construction Details**

7. Fabricated 3mm thick aluminium sign box. Cut through logo and graphics on face. Provide adequate drainage / ventilation to avoid condensation.

8. Intracut 3mm thick opal acrylic letters and logo clear glued to translucent backing panel to sit flush with sign face. All glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.

9. Intracut 3mm thick opal acrylic tear drop shapes clear glued to translucent backing panel to sit flush with sign face. Arlon Tangerine 84 translucent vinyl applied to face of tear drop shapes to align with cut outs, provide 10mm extra bleed to allow for shrinkage. Backing panel glued to back of sign box with 3M Scotch-Weld Metal Bonder acrylic adhesive. Note: all joints between aluminium and acrylic to be sealed against weather.

10. 6mm thick aluminium backing plate with 50mm x 50mm x 3mm aluminium angle returns. Fit nutserts to take M8 fixings. Outside to be 2 pack paint finish silver to match letter returns.

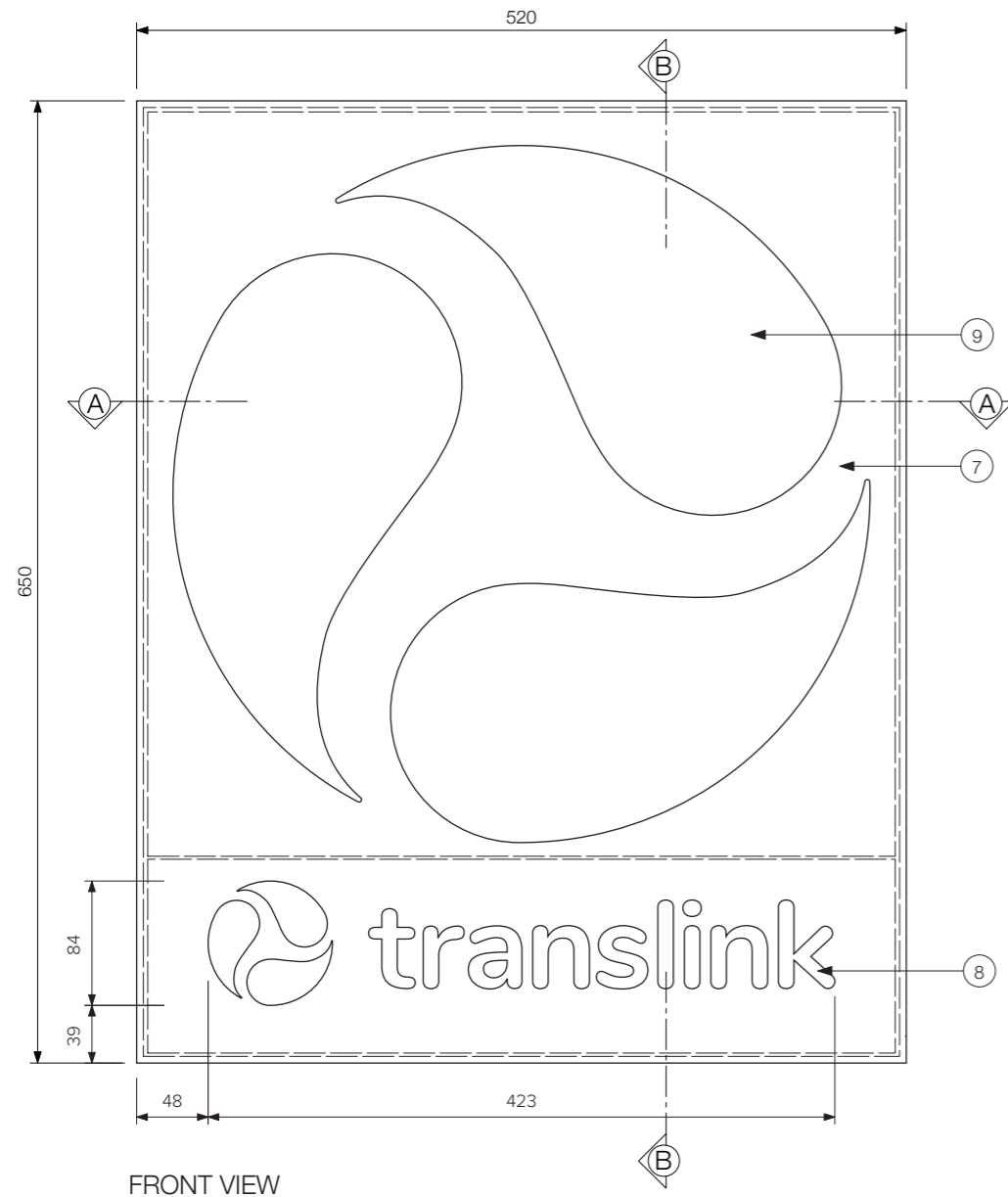
11. Internally illuminated with Cool White LED backlights mounted to backing plate. Refer to specification for details.

12. 4 off M8 S.S. 316 counter sunk screws to fix sign box to backing plate angles.

All cabling to be concealed and tied back neatly to structure. Seal any penetrations through structure. Transformer location to be coordinated with the Construction Representative. Signmaker to provide circuit breaker / fuse within light box. Sign should operate during evening hours of station operation.

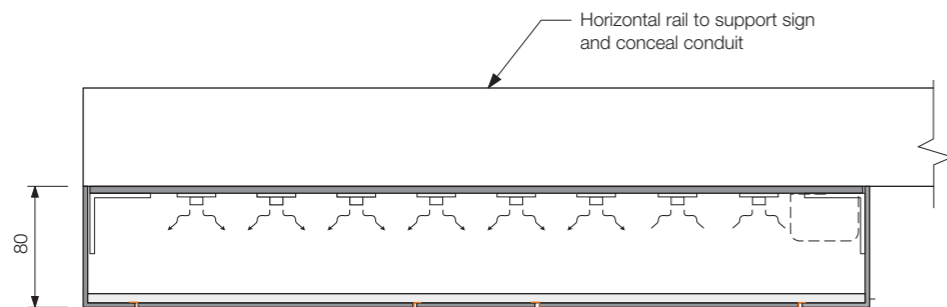
**NOTE**

- Signmaker to co-ordinate fixing with Managing Contractor / TMR representative.



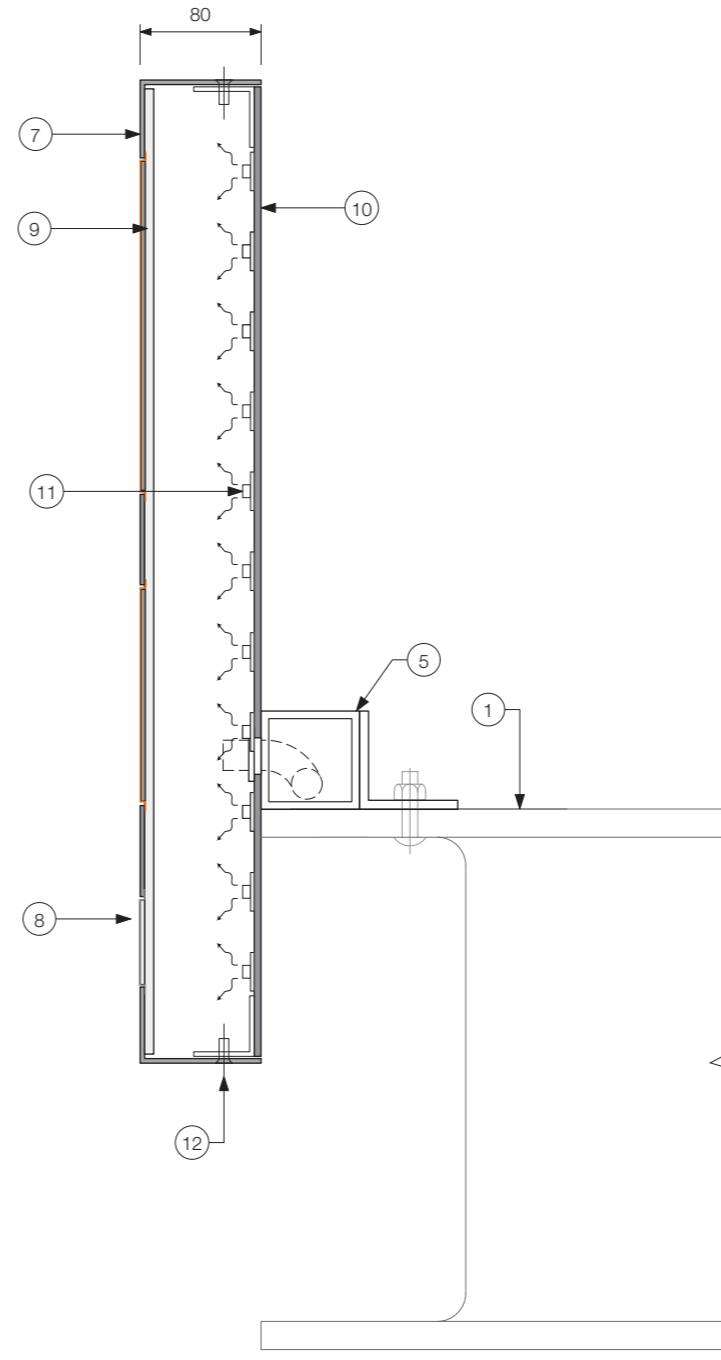
**Typical Elevation**

Scale 1:5



**Section A-A**

Scale 1:5



**Typical Section B-B**

Scale 1:5

Sign Type

**PI-6a**

**Station Identification Sign - Platform**

**Purpose**

- To provide station identification on platform
- For pedestrian use

**Typical location**

- Located on back wall of station structure, typically on glass panel
- Located in every second bay

**Indicative message**

- Name of station
- Logo

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic

**SIZE**

- Translink graphic = 145mm high (proportional width)
- Translink logo = 25mm high (proportional width)
- Station name = 65mm cap X height

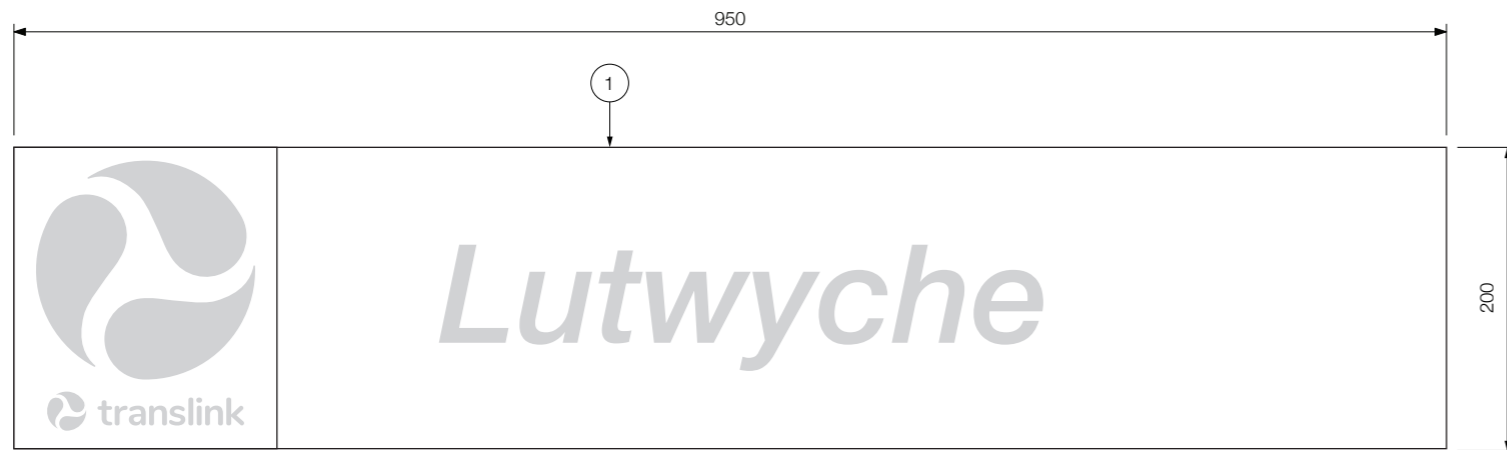
**COLOUR**

**Panel Backgrounds**

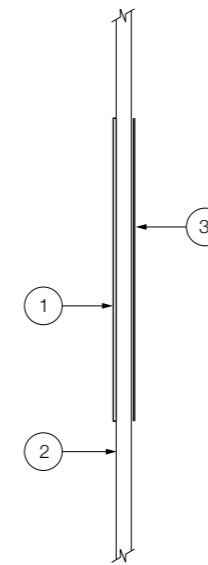
- Translink = Resene 'Trinidad' O61-167-048
- Translink logo tint = Arlon Light Orange 97
- All other backgrounds = Resene 'Jon' N38-007-359
- Translink logo = Arlon White 02
- Station name = Arlon White 02

**Construction Details**

1. 950 x 200 x 2mm aluminium sign panel adhered to glass panel with 3M VHB double sided tape.
2. Glass panel
3. Fix 2mm acrylic panel (painted Resene 'Jon' N38-007-359) to back of glass behind sign panel to conceal fixings. Required only where fixings are visible from behind.



FRONT VIEW



SIDE VIEW

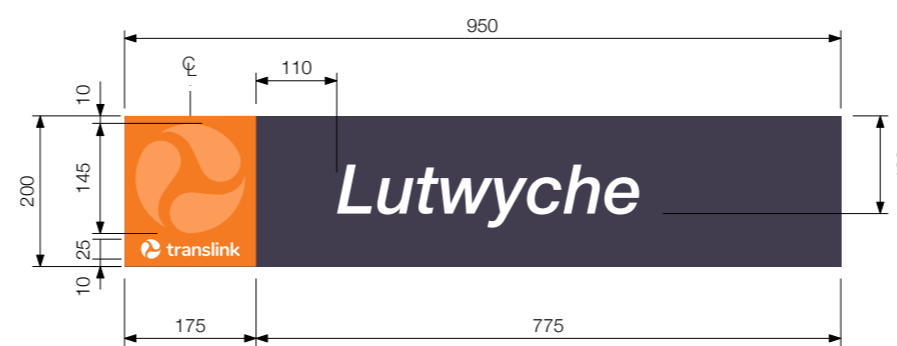
**Elevations**

Scale 1:5



**Typical Location**

Scale 1:50



**Graphic Layout**

Scale 1:10

Sign Type

**PI-6b**

**Government Logo Sign**

**Purpose**

- To provide government identification on platform
- For pedestrian use

**Typical location**

- Located on back wall of station (wall / column)

**Indicative message**

- Logo

**Graphics Detail**

**SIZE**

Horizontal Government logo = 140 x 645mm

Vertical Government logo = 215 x 200mm

**COLOUR**

Government Crest= Black

**Construction Details**

1. Front applied vinyl graphics to glazing or column as required.
2. Digitally printed graphic to clear vinyl with clear overlamine.
3. Finished graphic to be cut out with a 2mm thick clear offset border.



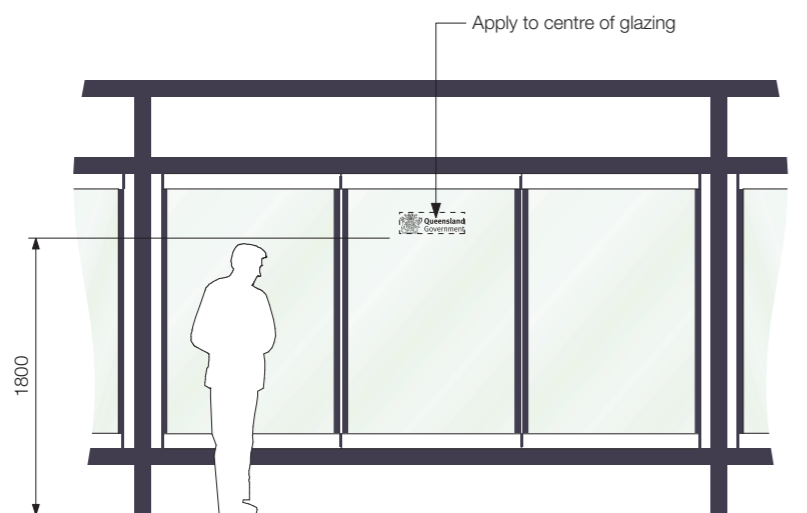
Portrait format



Landscape format

**Graphic Layout**

Scale 1:5



**Typical Location**

Scale 1:50

Sign Type

**PI-12d**

**Suspended Identification Sign - Landscape**

**Purpose**

- Main sign to identify station from major approaches
- For pedestrian use

**Typical location**

- Suspended from building structure/ fixed to bulkhead
- Located perpendicular to direction of travel
- The underside of the sign shall be a minimum of 2300mm above floor level. Preferred 2500mm above finished floor level.

**Indicative message**

- Station name, pictograms and service provider

**Graphics Detail**

**FONT**

Station name = Helvetica Neue 66 Medium Italic

**SIZE**

Translink graphic = 470mm high (proportional width)  
 Station name = 170mm cap X height

**COLOUR**

Panel Backgrounds  
 TransLink background = Arlon Orange 44 translucent vinyl  
 TransLink logo tint = Arlon Tangerine 84 translucent vinyl  
 Text background = Resene 'Jon' N38-007-359

Station name = Opal Acrylic (intracut)

Pictograms = Opal Acrylic (intracut)

Logos = White vinyl

**Construction Details**

Refer to sheet 2 for details



**Graphic Layout**

Scale 1:20



**Typical Location**

Scale 1:50

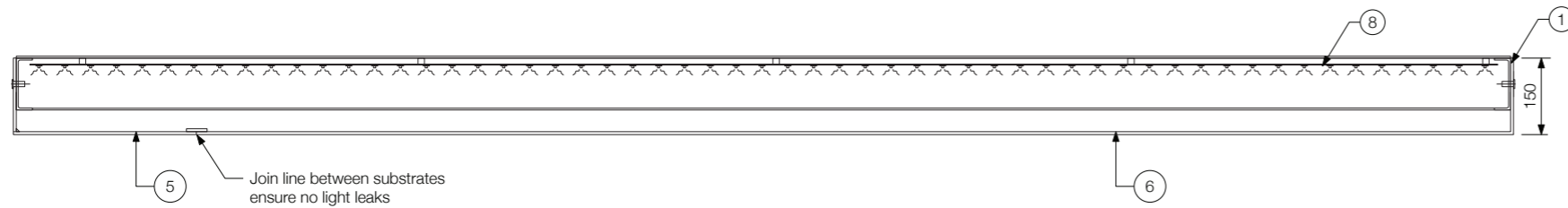
Sign Type

**PI-12d**

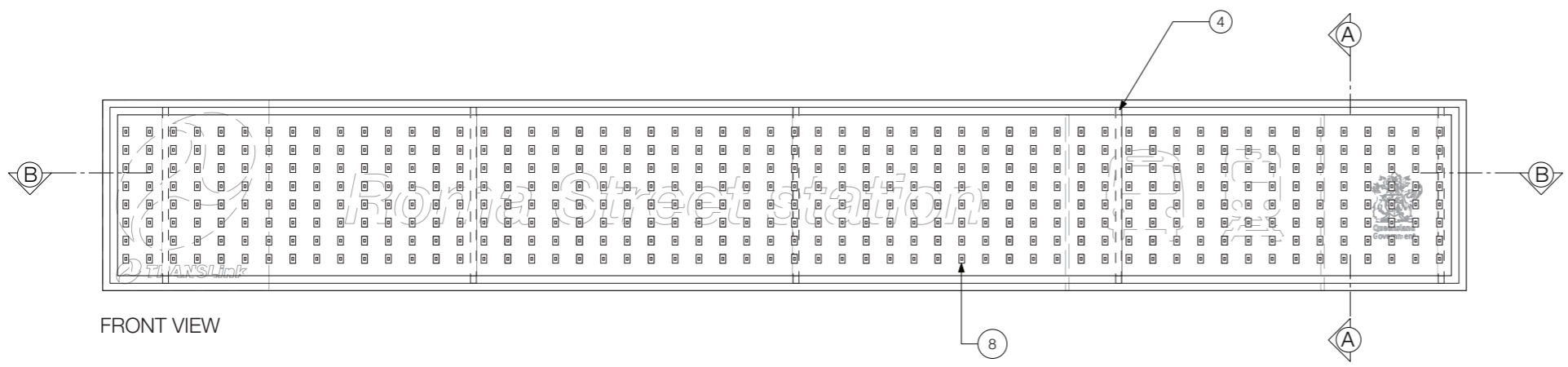
**Suspended Identification Sign**

**Construction Details**

1. Welded frame from 80 x 25 x 3mm aluminium channel. 2mm thick painted aluminium backing counter sunk rivet fixed to internal frame
2. Threaded rod suspended via suitable anchors to ceiling. Provide 30mm CHS tube sleeve. Secure sign box with suitable nuts and washers.
3. M5 SS 316 pan head socket screws fixing sign face to frame.
4. 20 x 20 x 3mm SHS aluminium bracing welded to frame.
5. 4.5mm fabricated opal polycarbonate sign face with rebated edge to fix to adjacent 3mm aluminium face. Polycarbonate face to be flush with aluminium face.
6. 3mm thick painted fabricated aluminium sign panel with intracut letters and graphic. 3mm thick opal letters finishing flush with panel and 3mm thick opal backing. Non illuminated front applied vinyl logos.
7. Power conduit through 30mm CHS sleeve.
8. Internally illuminated by LED backlight modules mounted to backing panel. LED layout indicative only. Signmaker to provide control gear. Refer to specification for LED requirements. Sign should be illuminated during all hours of operation.

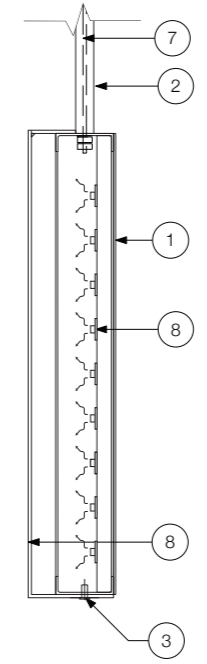


Section B-B



FRONT VIEW

**Typical Elevation**  
Scale 1:20



**Section A-A**  
Scale 1:10



Sign Type

**PI-15a**

**Minor Station Identification Sign - Non-illuminated**

**Purpose**

- Main sign to identify site / station / park 'n' ride from major approaches
- Used for smaller stations or where power for illumination is not available.
- For pedestrian and vehicular use

**Typical location**

- Located on the principal road frontage/s of the station in proximity to the principal road / pedestrian entry to the station.
- Located in either TMR or Other's property depending on site constraints. Note:- If located outside TMR property, Owner to be consulted on final location.
- Sign to be oriented typically with the sign faces perpendicular to the kerb line, in order that the sign faces are clearly visible from road approaches.
- Sign post to be located outside required pedestrian paths of travel. Obtain advice from TransLink and the property owner prior to finalising locations.
- Minimum clearance above finished floor level to be 2.5m

**Indicative message**

- Station name, pictograms and service provider

**Graphic Details**

**FONT**

Station Name = Helvetica Neue 66 Medium Italic

**SIZE**

Station name = 125mm cap X height  
 Pictogram = 200mm o/all height  
 Qld Government = 135mm o/all height

**COLOUR**

Logo background = Resene 'Trinidad' O61-167-048  
 Logo swirl = Arlon Light Orange 97  
 TransLink logo = Reflective Class 2 white vinyl

Grey background = Resene 'Jon' N38-007-359  
 Text & pictograms = Reflective Class 2 white vinyl  
 Station name = Reflective Class 2 white vinyl  
 Line = Reflective Class 2 white vinyl  
 Qld Government logo = White Vinyl

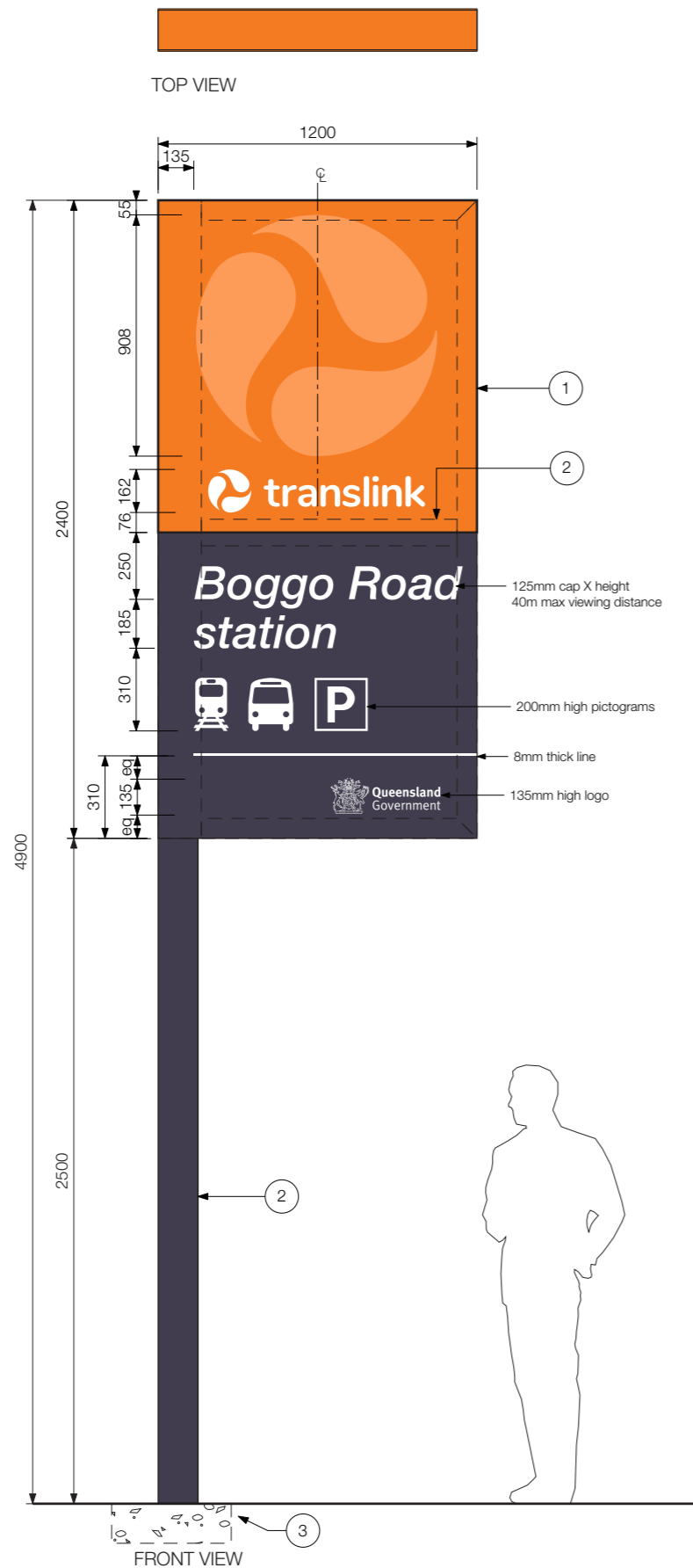
Posts = Resene Jon N38-007-359

**Construction Details**

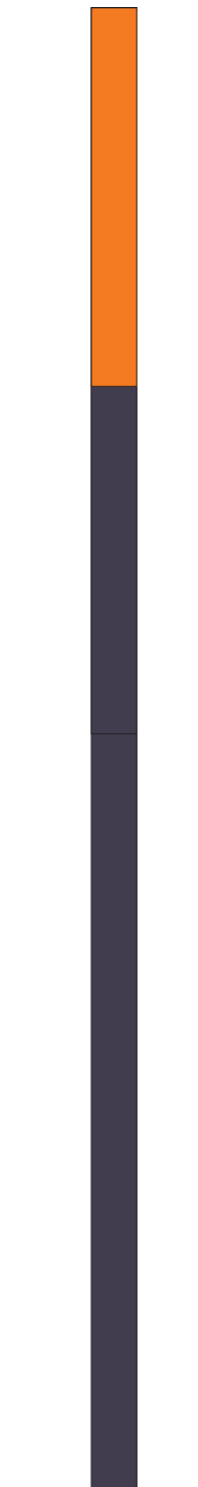
1. 2mm thick painted aluminium sign panel with front applied vinyl graphics. Anti-graffiti spray clear over. Rivet fixed to internal frame. Paint out heads to match panel colour. Apply 5mm radius to corners.

2. 150 x150 SHS mild steel post with 150mm 'C' section purlin internal frame clad with aluminium panels.

3. Reinforced concrete pad/pier footing to signmakers' specification. All fixings shall be below ground level to reduce trip hazards. Re-instate / make good paving or pavement, with no changes of level greater than 3mm and no gradients steeper than 1:40.



Typical Elevation



END VIEW



BACK VIEW

Sign Type

**RP**

**Rendezvous Point Sign**

**Purpose**

- To identify rendezvous point for emergency services
- For pedestrian and vehicular use

**Typical location**

- Located on wall

**Indicative message**

- Name and location

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

'RVP' = 100mm cap X height  
Letter = 300mm cap X height  
Other text = 50mm cap X height

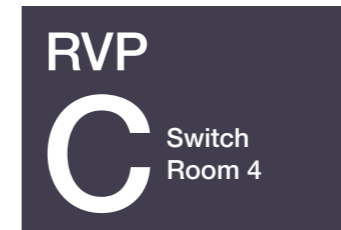
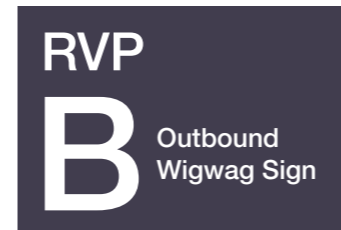
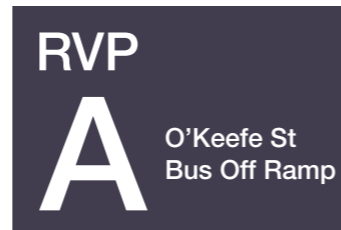
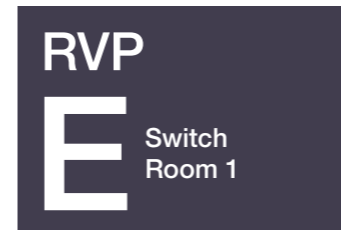
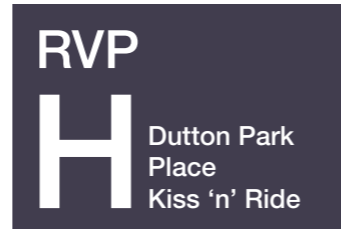
**COLOUR**

Background = Resene 'Jon' N38-007-359  
All text = Arlon White 02

**Construction Details**

1. 3mm thick aluminium sign panel with front applied vinyl graphics. Protective clear anti-graffiti clear coat over.

2. Sign panel fixed to wall with VHB double sided tape and silicone. Signmaker to confirm fixings on site.



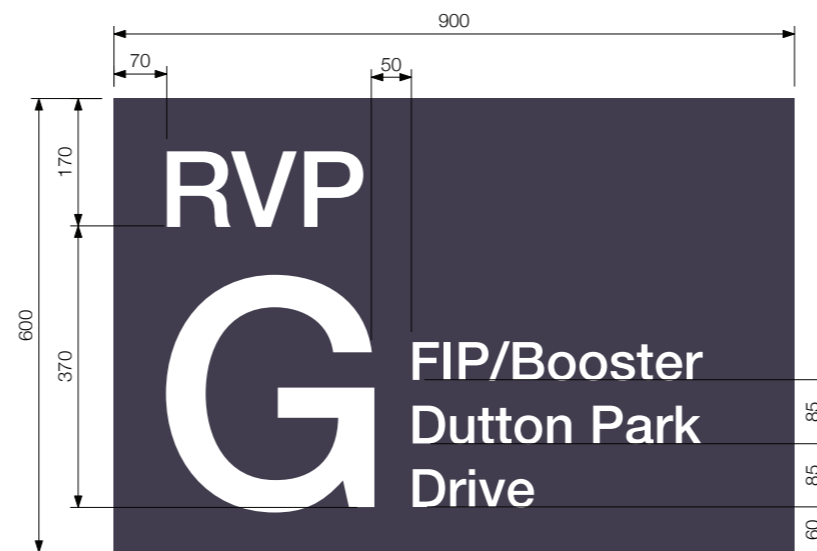
**Additional Graphic Layouts**

Scale 1:20



**Typical Location**

Scale 1:50



**Graphic Layout**

Scale 1:10

Sign Type

**ST-1**

**Standard Door Sign - Panel**

**Purpose**

- To identify statutory / "back-of-house" areas
- For pedestrian use

**Typical location**

- Located on door

**Indicative message**

- Communications cupboard, Electrical Room, Switchroom, etc

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

All text = 50mm cap X height

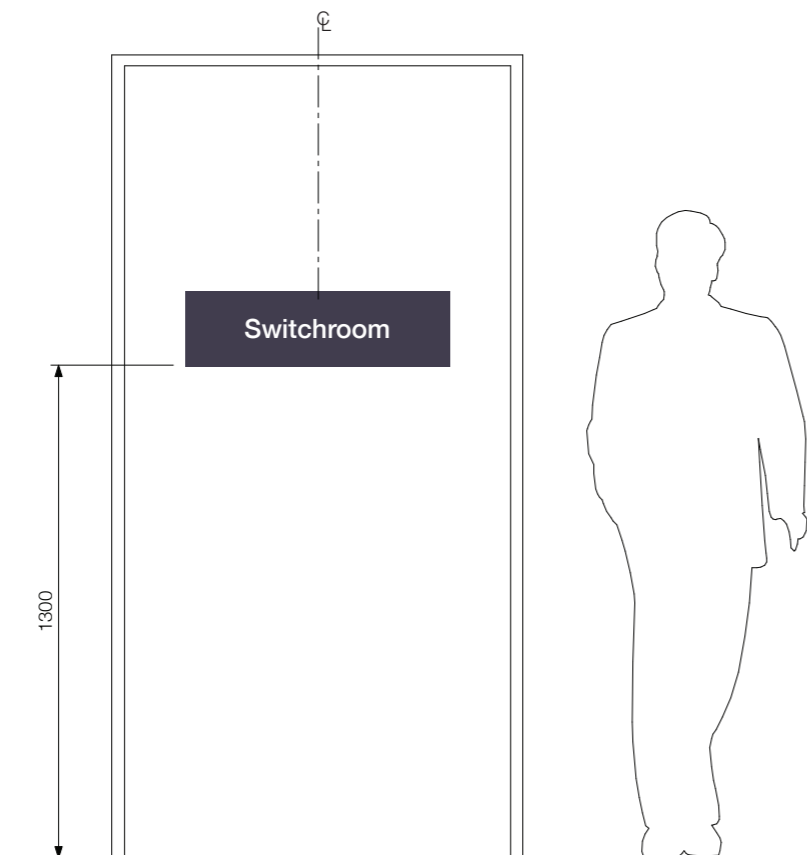
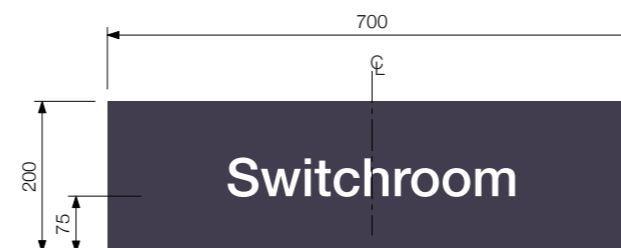
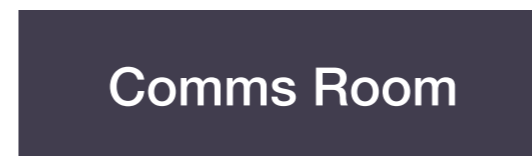
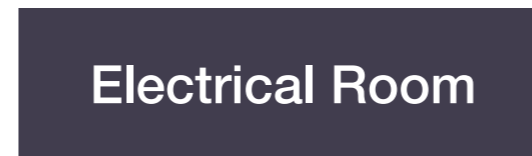
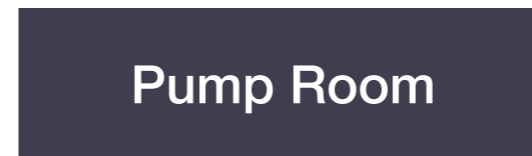
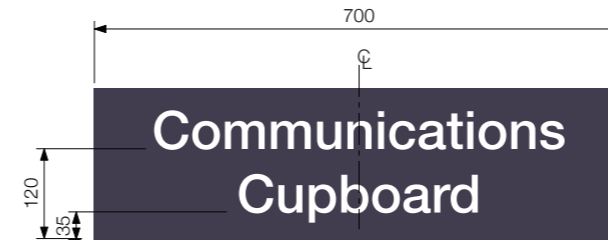
**COLOUR**

Panel background = Resene 'Jon' N38-007-359

All text = Arlon White 02

**Construction Detail**

1. 3mm aluminium sign panel with front applied vinyl graphics. Protective anti graffiti clear coat over.
2. Where signs are located in reach of a person, all exposed corners are to have 10mm radius for safety.
3. Silicon and VHB tape fixed to wall/doors. Sign maker to ensure adequate preparation of surfaces prior to fixing.

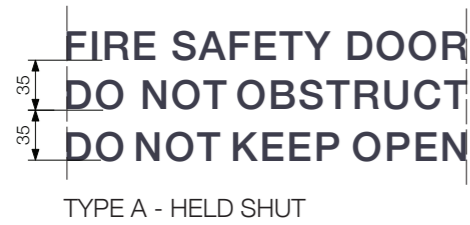


**Typical Location**

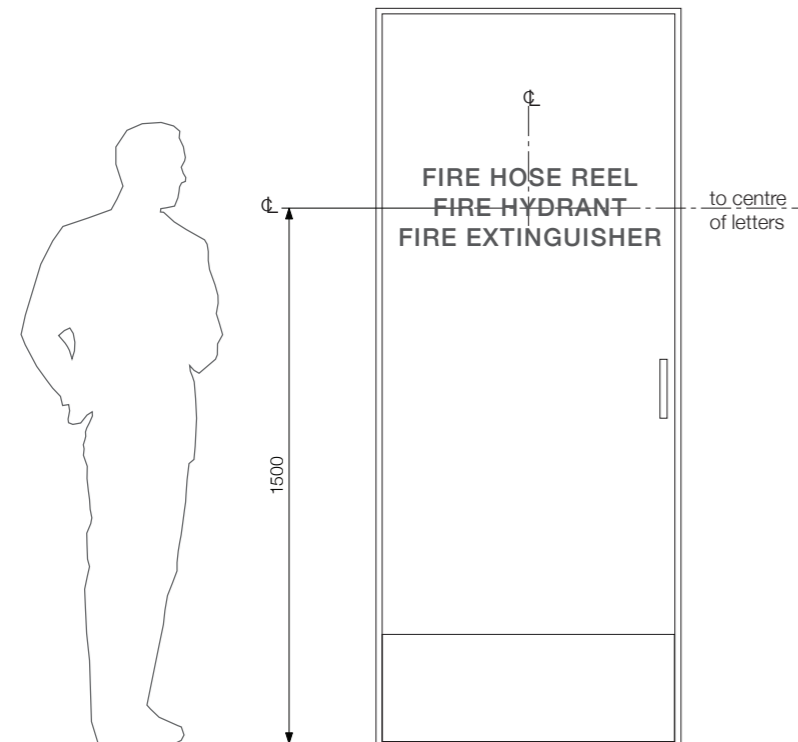
Scale 1:20

**Typical Graphic Layouts**

Scale 1:10



Typical Graphic Layouts - Emergency Egress – 20mm TEXT  
Scale 1:5



Typical Location  
Scale 1:20

FIRE HOSE REEL  
FIRE HYDRANT  
FIRE EXTINGUISHER

3 LINES

FIRE HOSE REEL  
FIRE HYDRANT

2 LINES

FIRE HOSE REEL

FIRE PANEL

FIRE CONTROL ROOM

1 LINE

Typical Graphic Layouts - Fire Hose Reel Doors/Booster Cupboards – 50mm TEXT  
Scale 1:5

Sign Type

**ST-2**

Statutory Sign - Vinyl

**Purpose**

- To identify statutory doors
- For pedestrian use

**Typical location**

- Located on door

**Indicative message**

- Fire safety door
- Fire Hose Reel, Fire Extinguisher, Fire Hydrant
- As required by BCA or relevant Australian Standard

**Graphics Detail**

**FONT**

All text = Helvetica Neue 65 Medium

**SIZE**

As shown

**COLOUR**

All text = Arlon Dark Grey 52 (confirm minimum 30% contrast to door prior to production)

**Construction Details**

1. Front applied vinyl graphics to door.

**EGRESS DOOR SIGN MESSAGES**

All statutory signs for fire doors to comply with BCA Volume 1 section D2.23 'Signs on doors'.

Signage to be in capitals not less than 20mm high in a colour contrasting with the background and state:

(i) for an automatic fire door held open by an automatic hold open device -  
FIRE SAFETY DOOR  
DO NOT OBSTRUCT

(ii) For a self closing fire door -  
FIRE SAFETY DOOR  
DO NOT OBSTRUCT  
DO NOT KEEP OPEN

(iii) for a door discharging from a fire isolated exit -  
FIRE SAFETY DOOR  
DO NOT OBSTRUCT

NOTE: Ensure that vinyl colour has 30% contrast to paintwork.

Sign Type

**EX-1**

**Precinct Information Sign  
(External to Station)**

**Purpose**

- To direct to precinct wide transport options

**Typical location**

- At critical decision points  
- External to station environment

**Indicative message and content**

- Street or area name  
- Station name and distance  
- Accessible entrances  
- Precinct map

**Graphics Detail**

**FONT**

Primary Text = Helvetica Neue 65 Medium  
Secondary Text = Helvetica Neue 55 Roman

**SIZE**

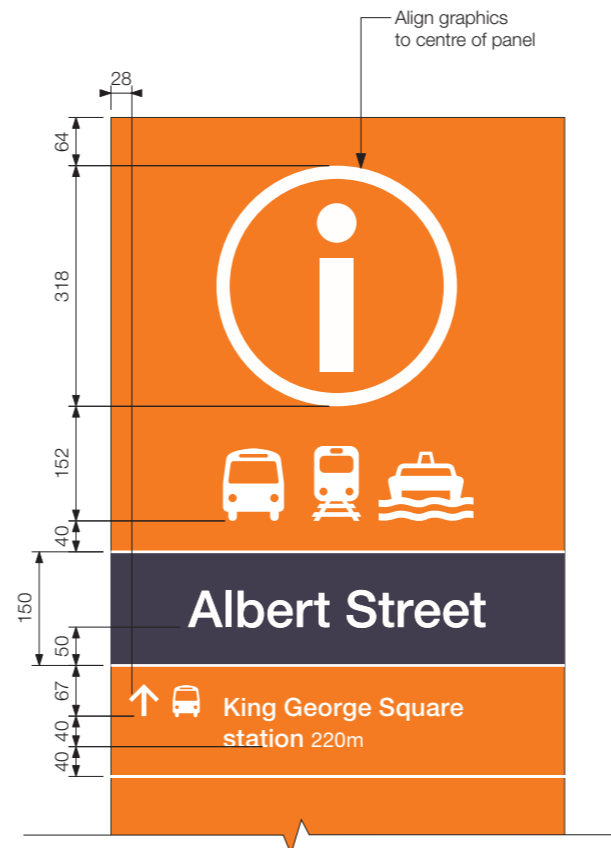
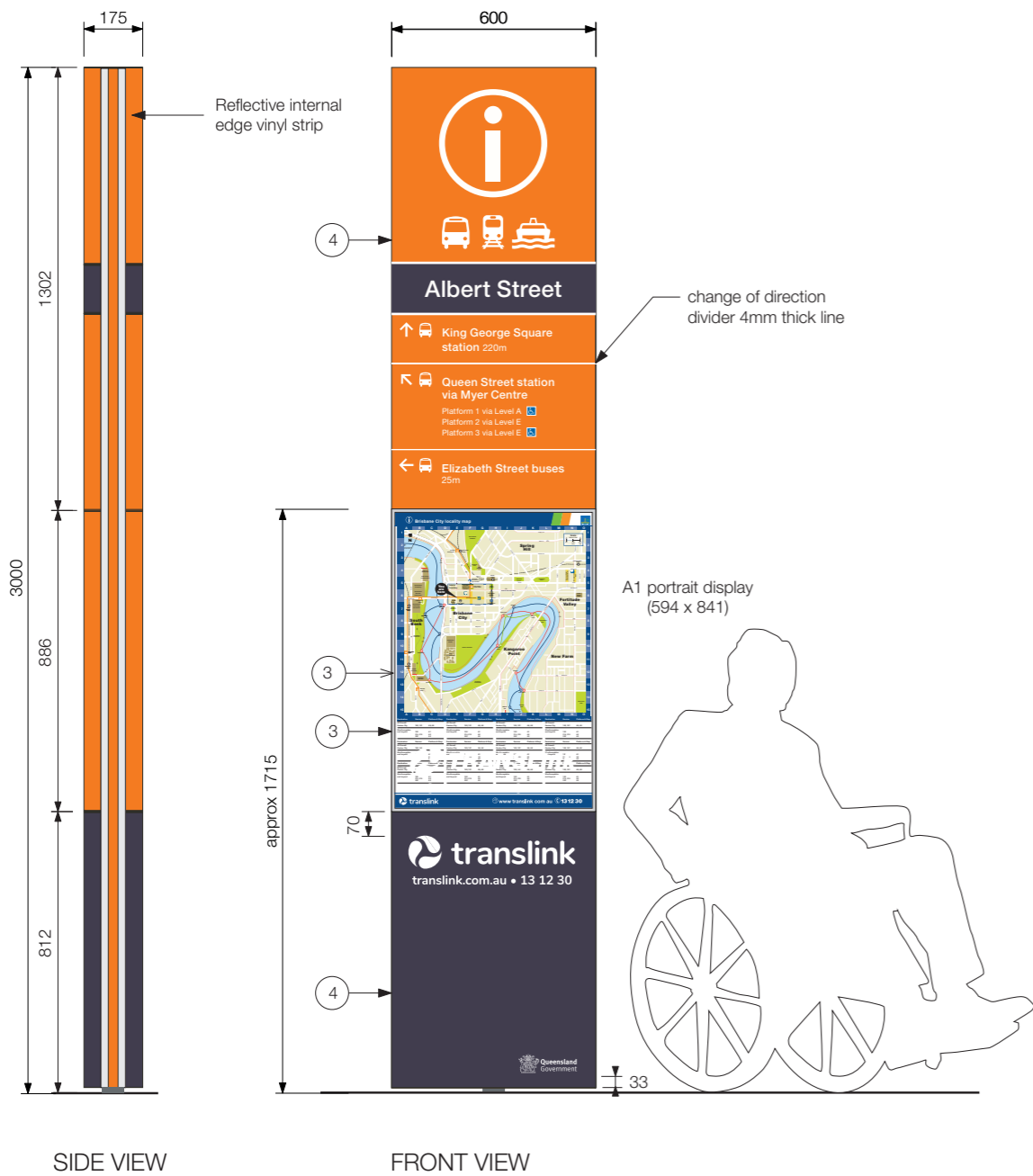
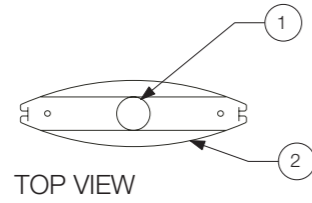
Primary Street Name = 48mm cap X height  
Primary Destination = 24mm cap X height  
Secondary Destination = 17mm cap X height  
Distance = 20mm cap X height  
Arrow = 42mm tip to tail  
Pictogram = 42 overall height

**COLOUR**

Primary background = Arlon Orange 44  
Secondary background = Arlon Dark Grey 52  
Text and graphics = Arlon White 02  
Access Symbol = white figure on AS2700 'Ultramarine' background

**Construction Details**

- 65mm NB steel post, C350 grade, 3.2mm wall thickness hot dip galvanised. Deform base to prevent rotation in direct embed footing.
  - Curved display extrusion - CIVIQ or approved equivalent.
  - Polycarbonate sheet cover over central display section.
  - 1mm aluminium sign panel with vinyl graphics front applied (for header and footer section). Anti-graffiti spray applied over all front applied vinyl graphics sections.
  - Existing paving surfaces to be removed during installation and replaced over footing and made good.
- All steelwork to be hot dipped galvanised.  
Samples are to be provided prior to manufacture.



**Elevations**

Scale 1:20

**Graphic Detail**

Scale 1:10

Sign Type

**EX-2**

**Precinct Major Directional Sign  
(Typically External to Station)**

**Purpose**

- To direct to precinct wide transport options

**Typical location**

- At critical decision points

**Indicative message and content**

- Street or area name  
- Station name and distance  
- Accessible entrances

**Graphics Detail**

**FONT**

Primary Text = Helvetica Neue 65 Medium  
Secondary Text = Helvetica Neue 55 Roman

**SIZE**

Primary Destination = 26mm cap X height  
Distance = 20mm cap X height  
Arrow = 44 x 41mm (tip to tail)  
Pictogram = 44mm overall height

**COLOUR**

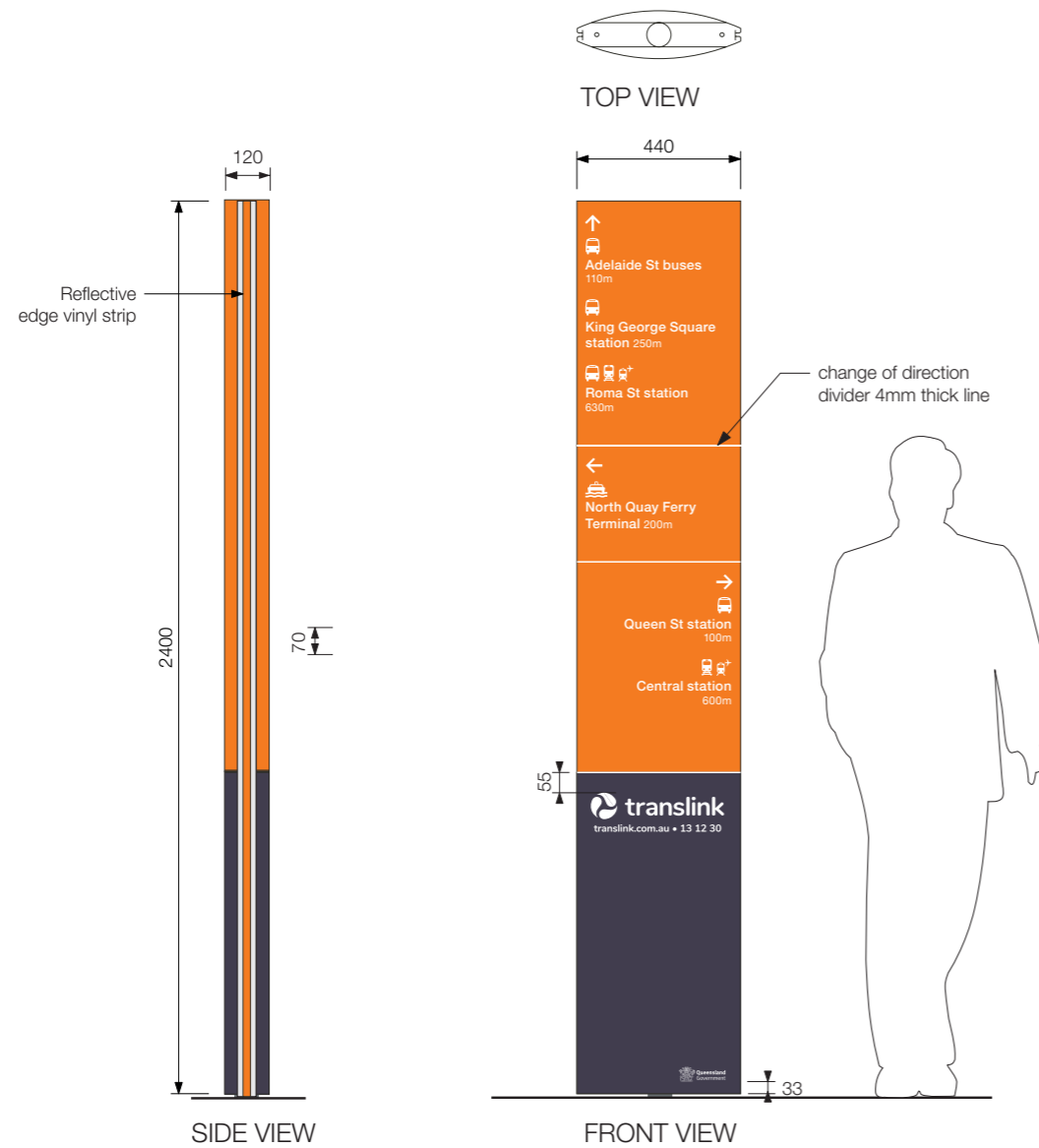
Primary background = Arlon Orange 44  
Secondary background = Arlon Dark Grey 52  
Text and graphics = Arlon White 02  
Access Symbol = white figure on AS2700 'Ultramarine' background

**Construction Details**

- 65mm NB steel post, C350 grade, 3.2mm wall thickness hot dip galvanised. Deform base to prevent rotation in direct embed footing.
- Curved display extrusion - CIVIQ or approved equivalent.
- 1mm aluminium sign panel with vinyl graphics front applied. Anti-graffiti spray applied over all front applied vinyl graphics sections.
- Existing paving surfaces to be removed during installation and replaced over footing and made good.

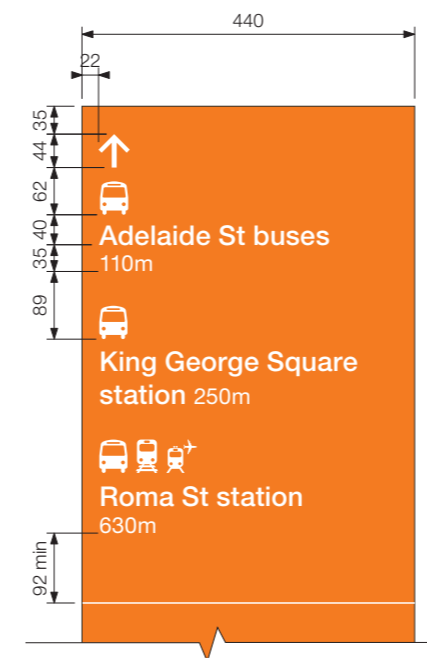
All steelwork to be hot dipped galvanised.

Samples are to be provided prior to manufacture.



**Elevations**

Scale 1:20



**Graphic Detail**

Scale 1:10

Sign Type

**EX-3**

**Precinct Minor Directional Sign  
(Typically External to Station)**

**Purpose**

- To direct to precinct wide transport options

**Typical location**

- At critical decision points

**Indicative message**

- Street or area name  
- Station name and distance  
- Accessible entrances

**Graphics Detail**

**FONT**

Main text = Helvetica Neue 65 Medium  
Minor text = Helvetica Neue 55 Roman

**SIZE**

Main text = 40mm cap  
Distance text = 28mm cap  
Pictogram = 70mm high  
Arrow = 70mm (tip to tail)

**COLOUR**

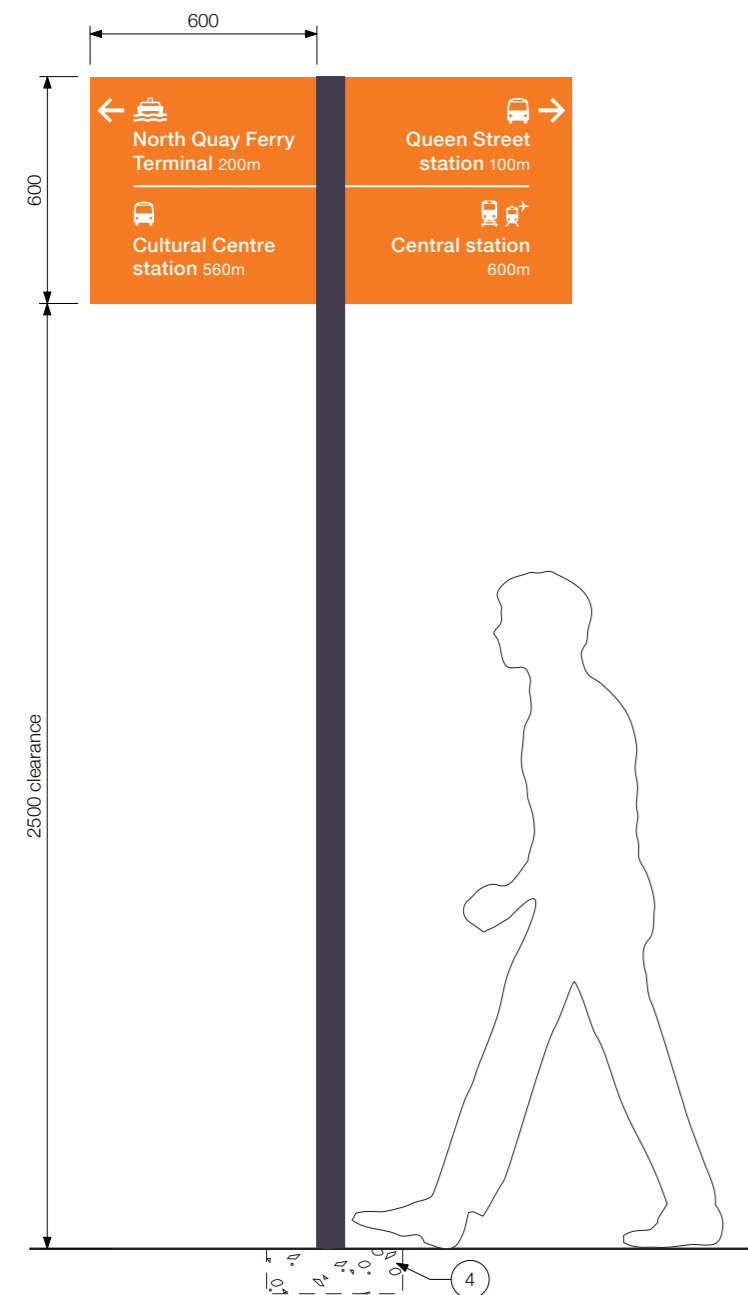
Transport panel background = Resene 'Trinidad' O61-167-048  
Sign structure & facility panel backgrounds = Resene 'Jon' N38-007-359  
Typical text & pictograms = Arlon White 02  
Access Pictogram = White figure on AS2700 'Ultramarine' background

**Construction Details**

1. 80 x 80 x 3mm galvanised steel post with 16mm thick fully welded base plate. 2 pack painted finish.
2. 50 x 25mm aluminium angle welded to 3 mm thick aluminium sign panel. 2 pack painted finish with front applied vinyl graphics.
3. Post hexagon socket button head stainless steel machine screw fixings. Paint out fixing heads to match sign panel.
4. Footing details to designed by Signmakers engineer to suit site conditions.

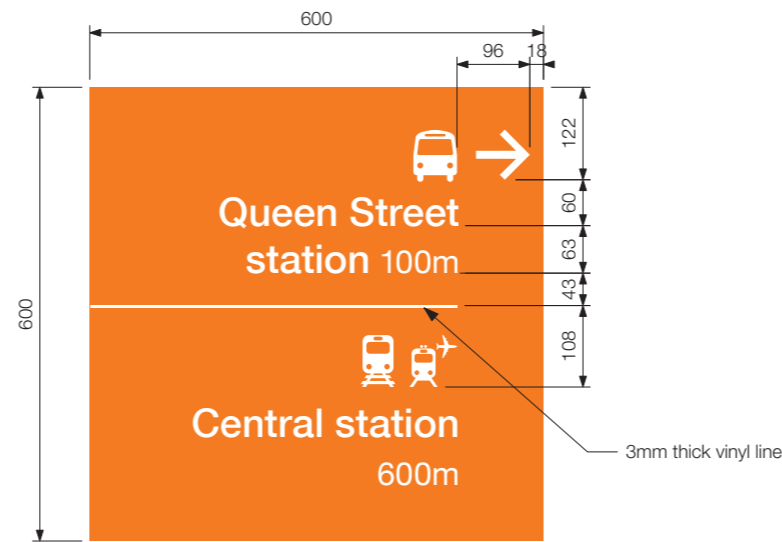
**NOTE**

Provide samples for approval prior to production.



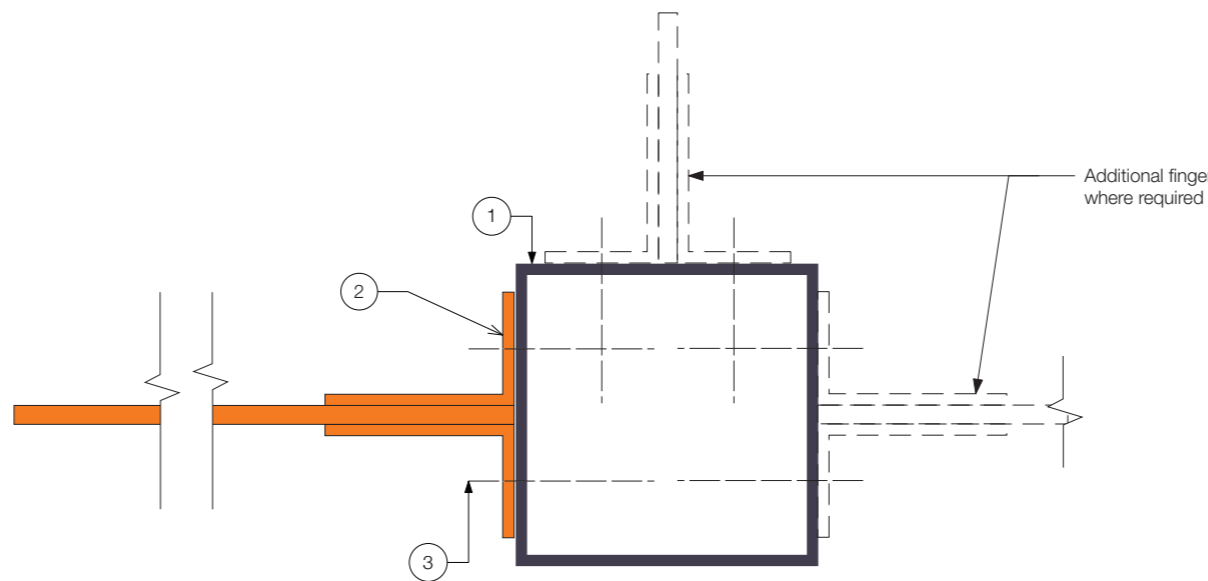
**Elevations**

Scale 1:20



**Graphics Detail**

Scale 1:10



**Fixing Detail**

Scale 1:2

## Section

# Technical specifications for manufacture



### 1.0 • PRELIMINARIES

#### 1.1 • Scope of Work

The Contractor shall carry out all work necessary to supply and install all signs as shown in the following documents:

- Sign Schedule
- Sign Location Plans
- Sign Type Drawings
- Sign Graphic Standards

This specification is to be read in conjunction with these documents.

Without limiting the generality of the foregoing, the Contractor shall:

- Visit sites prior to submitting price to inform installation & manufacture. This must be coordinated with the Superintendent and facility owner.
- Design supply, manufacture, store, deliver, install, commission and test as appropriate all components of the Works as may be necessary to complete the Works in accordance with the Contract;
- Provide all materials, labour, supervision, plant (including hoisting), equipment (including scaffold and temporary lighting), fixings and all other incidental items which may be necessary to satisfactorily complete the Works in accordance with the Contract;
- Provide all specified and all other necessary support structures, frames, brackets or mouldings to support, build and install all signs included in the Works;
- Allow for all requirements relating to site/safety inductions, work method statements and provision of traffic control and safe working areas. Contact the Superintendent for contact details for coordination with relevant facility owners including Busway and QR. All relevant statutory and facility owner regulations to be adhered to during installation and related works.
- Verify and be responsible for all dimensions and conditions on the job prior to manufacture, including structural, location, engineering and footing details and the strength and suitability of materials specified for each sign. Where additional load is placed on existing structures, the signmakers engineer is to provide suitable certification.
- Consult facility owners to coordinate new footings, or wall mounted sign locations. Obtain information on underground pipes and services prior to digging.

The Contractor shall notify the Superintendent 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;

- Provide any alterations required to fix signs to existing structure such as removal of ceiling tiles, plasterboard ceilings or wall sheeting required to install adequate structural fixings for signage. This includes repainting or refurbishing existing panelling, ground surfaces, wall surfaces or electrical fittings where damaged by the Contractor during the construction or installation of a sign;
- Allow for protection of all signs during transport and installation and protection to all areas of adjacent work during installation, especially protection of tiled surfaces where access equipment is used (e.g., plywood or plastic covering for protection)
- Provide all samples and prototypes specified as per item '1.6 Samples, Prototypes and Engineering Certification' established with the Superintendent.

#### 1.2 • Standard provisions, Codes and 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) including but not limited to:

Quality Management

AS/NZS ISO 9001 Quality systems for design/ development, production, installation and servicing

Metalwork

|                |  |
|----------------|--|
| AS 1170.2-2002 | Minimum design loads on structures – wind loads  |
| 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 hardenability (H) series   |
| AS 1449        | Wrought alloy steels – stainless and heat-resisting steel plate, sheet and strip   |
| AS 1554        | Structural steel welding   |
| AS 1627        | Metal finishing – preparation and pre-treatment of surfaces<br>Part 1 – cleaning using liquid solvents and alkaline solutions<br>Part 2 – power tool cleaning<br>Part 4 – abrasive blast cleaning<br>Part 7 – hand tool cleaning of metal surfaces<br>Part 9 – pictorial surface preparation standards for painting steel surfaces |
| AS/NZS 4680    | Hot-dip galvanised (zinc) coatings on fabricated ferrous articles  |
| AS 1734        | Aluminium and aluminium alloys, flat sheet, coiled sheet and plate   |
| AS 3569        | Steel wire ropes   |

Concrete

|         |                       |
|---------|-----------------------|
| AS 3610 | Formwork for Concrete |
|---------|-----------------------|

Fasteners

|         |   |
|---------|---|
| AS 1214 | Hot dip galvanised coatings on threaded fasteners |
| AS 1420 | ISO metric hexagon socket head cap screws         |
| AS 1421 | ISO metric hexagon socket set screws              |
| AS 1427 | ISO metric machine screws                         |

Timber Products

|         |   |
|---------|---|
| AS 2458 | Hardwood                                |
| AS 2270 | Plywood and blockboard for interior use |
| AS 2754 | Adhesive for timber and timber products |

Sealants

|            |   |
|------------|---|
| AS 1527    | Two-part polysulphide based sealing compounds for the building industry |
| AS 001543a | Sealing compound silicone rubber base (US specification)                |

Paints and coatings

|            |   |
|------------|---|
| AS 1231    | Aluminium and aluminium alloys – anodised coatings for architectural applications |
| AS 2039    | Methods for testing anodic oxidation coatings on aluminium and aluminium alloys   |
| AS 2310    | Glossary of paint and painting terms  |
| AS 2311    | The painting of buildings   |
| AS 2312    | Guide to the protection of iron and steel against exterior atmospheric corrosion  |
| AS 2700    | Colour standards for general purposes   |
| ASTM 03363 | Test method for film hardness by pencil   |

Electrical equipment and luminaires

|         |   |
|---------|---|
| AS 3000 | Electrical installations – building, structures and premises  |
| AS 3145 | Approval and test specification for transformers for cold-cathode electric discharge lamps and lighting systems |
| AS 2053 | Conduits and fittings for electrical installation   |
| AS 3008 | Electrical installation selection of cables   |
| AS 2052 | Metallic conduits and fittings  |
| AS 3127 | Luminaires (Light fittings)   |

Design for Access and Mobility

|           |   |
|-----------|---|
| AS 1428.1 | General requirements for access - New building work             |
| AS 1428.2 | Enhanced and additional requirements - Buildings and facilities |
| AS 1428.4 | Tactile indicators  |

#### 1.3 • The Intent of the Sign Type Drawings and Specification

The intent of the Schedules and Specifications set out herein is to describe the dimensions, materials and finishes of the signs and graphics to be consistent with the Principal's requirements and design intent for the network.

Construction details not exposed to view may be refined or modified provided that approval of such refinement of modification is requested of the Superintendent and the proposal is presented in ample time prior to the formal submission of Shop Drawings for the request to be considered. Approval may be granted at the discretion of the Superintendent but only on the basis that amongst other considerations, such refinements or modifications do not compromise the design intent, extra costs will not be incurred and the warranties and responsibilities under this contract are not reduced or voided in any way whatsoever.

In all cases the Contractor shall be responsible for ensuring that the finished product is structurally sufficient for the service conditions which would be reasonably expected. This shall include any structural computations as required.

Items where refinements or modifications will not be considered are:

- The text and graphic layout to be incorporated for each sign
- The colours and graphic application
- The overall size of each sign
- The materials and nominated finishes of each sign

#### 1.4 • Other Trades

The Contractor shall coordinate other trades as necessary or appropriate. All signs shall be manufactured, supplied and fixed by one approved specialist employing only licensed tradespeople skilled in the required class of work shall be employed.

#### 1.5 • Proprietary Products

Where proprietary products are used the manufacturer's instructions and specifications shall be strictly adhered to.

#### 1.6 • Samples, Prototypes and Engineering Certification

Prototypes shall be provided for all work associated with the signing trade. Where additional load is placed on existing structures the signmakers engineer is to provide certification.

All such prototypes shall be submitted to the Superintendent for approval in sufficient time (minimum 2 weeks) to permit proper evaluation and, where necessary, resubmission in order to allow production to proceed in accordance with the program (refer item 1.14). Approval time to be confirmed with Superintendent. All prototypes are submitted as an example of material, finish, colour and workmanship. Approval samples and prototypes shall become the standard against which work will be accepted. An approved sign, if suitably located, may be permitted to be incorporated into the Works. Otherwise identify, protect, retain and store upon completion of the Works.

The required material, finish and colour samples are:

- Minimum 100 x 100mm section of each nominated vinyl
- Minimum 400 x 400mm panel of each spray painted colour and finish

The required prototypes shall be provided that are representative of the four (4) sign groups. The sign groups are:

- PI - Primary identification
- FI – Facility identification
- DS – Directional Signs
- IS – Information System

Prototype signs to be provided include:

- Entry Station Identification including Pylon, Flag pole Banner and badge sign
- Platform Identification including Lead Stop Sign, Station name
- Directional signs including under awning types
- Information system signs including complete internally illuminated poster display cabinet
- Wall and Under Awning Information
- Platform Information
- Door Plate

### 1.7 • Inspections

Give the notice specified in '1.14 - Production Program and Review Periods' so that the Superintendent may inspect materials and workmanship at the manufacturing workshop.

### 1.8 • Protection of Works Under the Contract

Protect all materials and workmanship against scratching, marking and other damage at all stages of fabrication, handling, delivery and installation until Practical Completion.

Wrap finished metal surfaces and faces with applied graphics in polythene or similar and apply heavy duty polystyrene, timber and similar packing as appropriate to all faces and edges, liable to damage during storage, transport or installation.

### 1.9 • Protection of Station Environment

Adjacent building structures shall be protected from possible damage during the erection of signs. All surfaces shall be protected including walls, floor, windows, doors, hardware, skirting, handrails and steps in areas in which work is progressing or through which materials are brought.

### 1.10 • Making Good

All work under the Contract damaged during installation through welding, setting, drilling, site handling or any other cause will be the responsibility of the Contractor and made good in accordance with this Specification.

Any damage caused to the Station environment in the course of installation through any cause will be the responsibility of the Contractor and shall be made good to the satisfaction of the Superintendent.

Where signs are removed permanently, repair/make good wall and footing finishes. Confirm requirements with Superintendent prior to work.

### 1.11 • Cleaning Up

Debris and waste material associated with signs shall be regularly removed during installation and the complete area cleaned on completion. Before handing over the work, all signs, carrier supports and other surfaces shall be cleaned using a soft cloth and an approved cleaning fluid. Any area requiring installation over a period of days will be cleaned regularly during the day and at the end of each day in order to remove any hazards to persons.

### 1.12 • Quality of Work

The Contractor shall provide QA methodology and implement quality assurance procedures as set out in the Contract.

### 1.13 • Format of Pricing

Prices are to be provided for:

- supply & installation as a lump sum total and broken up per sign type to allow for additions and deletions if required. Refer to provided Bill of Quantities to facilitate price format.

### 1.14 • Production Program & Review Periods

Production Program

The Contractor must submit with their price a written production program detailing the time frame as detailed in the Review Period for:

- shop drawings (sign faces, sign supports, footings, engineering certification)
- sampling (colours and material, prototypes and fittings)
- manufacture / production inspections
- installation

Review Periods

The contractor to allow Superintendent review periods in their program as follows:

- critical path matters - 5 working days
- non-critical path matters - 10 working days
- alternate materials / products approval - 10 working days
- approval of shop drawings, samples etc - 10 working days

### 1.15 • Contractors Access to Site

As noted in item 1.1 Scope of Work. Contractor to allow for:

- Site specific inductions as required by facility manager/owners eg QR and Busway.
- Coordinating works with Facility manager/owner for approvals and permits for performing the works.
- Supply work method statements on sign erection and removal, post installation, on-site painting of posts etc.
- Requirements on separation of the area of works from public.

### 1.16 • Removal and Disposal of Redundant Signs

Existing signs to be removed and destroyed OR removed and returned to Principal (responsibility of the contractor). Confirm requirement with Superintendent.

Extent of Works include:

- Removal of redundant signs, sign frames, boxes, fixings and supports as per schedules and specifications. Contractor to make good any areas where signs/supports etc are removed.

## 2.0 • FABRICATION, FINISH AND INSTALLATION

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.

Unless otherwise specified, comply with the following where applicable -

Properties: Allow for expansion/contraction of materials, and

Electrolysis: Provide insulation between dissimilar metals to prevent electrolysis.

### 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 • Metalwork

All work shall be of a high standard accurately and neatly constructed and securely fitted and fixed.

Prefabricate and pre-assemble items in the workshop to the maximum size practicable in consideration of delivery limitations, site conditions and site access.

Similar fabrication techniques and detailing shall be used in all associated fabrications and items to ensure continuity of finished appearance.

### 2.3 • Welding

All welding shall be carried out in accordance with AS 1554.

Welded, brazed or soldered joints on exposed surfaces shall be ground, buffed or polished as applicable to the material and specified finish.

There shall be no buckling or visible surface colour variations in exposed material metal finishes.

### 2.4 • Aluminium

All welding shall be carried out in accordance with AS 1665 using techniques to avoid buckling and discolouration. Alloy/temper to AS1865

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.

### 2.5 • Mild Steel

All mild steel work to be hot dipped galvanised.

### 2.6 • Polymers

Acrylic sheet to be of UV stabilised quality cast or extruded high impact Mitsubishi 'Shinkolite', Degussa 'Plexiglas' or equivalent approved by Superintendent to suit the application. Polycarbonate sheet where nominated to be used in all high impact applications.

### 2.7 • Finishes Generally

Edges and surfaces should be clean, neat and free from burrs and indentations. Remove sharp edges to a fine pencil round without excessive radiusing. All visible joints in materials shall be even, hairline joints unless noted otherwise and approved on shop drawings for specific functional or visual requirements.

Match colour of sheets, extrusions and heads of fastening in colour finished work.

Unless otherwise noted on the drawings or in this specification all exposed screw heads shall be stainless steel countersunk socket head screws finishing flush with surface.

### 2.8 • Paint finishes

Carry out painting in accordance with manufacturer's recommendations for spray, roller or brush application.

Generic or unbranded products shall not be used. Use only branded premium quality lines from Resene/Altex, or an equivalent alternative to be approved by the Superintendent prior to use.

All material required for the application of each finish must be manufactured by one approved manufacturer and used in conjunction with priming and undercoats produced by that manufacturer as a total coating system.

### 2.9 • Pre-treatment

The Contractor shall ensure that all surfaces are properly prepared and in suitable condition to receive the coating system prior to the first application as follows:

- Un-primed or damage primed steelwork shall be abrasive blasted, or power tool cleaned to near white metal, immediately prior to priming or spot priming
- Primed steelwork shall be brushed down and degreased using white spirit
- Galvanised steelwork scheduled to be paint finished shall be degreased using white spirit, and washed with water
- Concrete and masonry surfaces shall be cleaned of all oil, grease and loose foreign matter, including efflorescence and dirt, prior to the application of any paint finishes
- Aluminium should be lightly abraded using fine emery cloth and mineral turpentine as a lubricant. Surfaces should be cleaned with mineral turpentine, washed thoroughly and dried. As soon as surfaces are thoroughly dry, apply self-etching primer to all surfaces. Fine sanding and painting should follow immediately thereafter.

### 2.10 • Mixing and Blending

All paints shall be mixed in accordance with manufacturer's recommendations.

Chemically cured coatings shall be blended in exact quantities either by weight or by the use of volume matched containers. Accurate and properly calibrated equipment is required capable of weighing to an accuracy of 5g. The whole contents of volume matched containers shall be blended at once. On no account shall part only of volume matched containers be blended.

Each container shall be thoroughly and separately mixed using clean mixing equipment that has not been in contact with the other containers.

Blended material shall be poured from mixing container; care being taken not to scrape out materials left adhering to the container.

Application shall be carried out within 1 hour of mixing.

Thinning shall only be permitted for spray applications or sealing coats and then only with thinners supplied by the finish manufacturer for this purpose.

### 2.11 • Protection of Other Surfaces

All necessary protection and masking shall be provided to protect adjacent surfaces as finishing proceeds and to ensure accurate cutting in.

Care shall be taken to select masking materials that are compatible with the surface to which they are being applied and that any residue of adhesive can be easily removed.

Hardware shall be removed prior to finishing and subsequently refixed and adjusted.

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.

### 2.12 • Paint Application - Aluminium

Apply paint finishes according to the background material as follows:

For aluminium surfaces, etch priming pre-treatment, should be fine sanded and 3 coats of 2-pack polyurethane Altex E-Line 239 Clear shall be applied to colour specified in the colour specifications on Drawings. This surface should be lightly baked prior to application of vinyl or mask and spray painted graphics. Finally apply a clear coat 2-pack polyurethane with UV stabilisers Resene Altex Uracryl 402 (satin clear). Clear and lightly bake. All as per manufacturers details and specifications. No visible rounding off on the edges shall occur or surface build-ups generally at any stage of the coating procedure. Gloss level = Satin finish.

### 2.13 • 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 equivalent approved by Superintendent.

Silicone adhesive is to be acid free Dow Corning 7932, Sikaflex or equivalent approved by Superintendent.

### 2.14 • Vinyl Graphics

Type

Exterior grade cast vinyl & Exterior Grade Retro-reflective Vinyl to the relevant Australian Standard for Traffic devices. Ensure only one brand of vinyl is used where multiple layer graphics are required.

Application of vinyl and preparation of surfaces must meet requirements of manufacturer to maintain warranty. Consult manufacturer for application manual for signmaker's guide to usage of products.

Technical Performance Specifications

Cast vinyl colours and performance are to specifically match / equal all colours specified on each sign type drawing, including:

Illuminated vinyl:

Arlon (Calon) Orange 44 translucent

Arlon (Calon) Tangerine 84 translucent

Opaque vinyl:

Arlon (Calon) Light Orange

Arlon (Calon) Dark Grey 52

Arlon (Calon) Perfect Match Red 220

Thickness: 0.08mm to 0.10mm thickness range.

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

Alternative vinyl samples may be submitted for review. Alternatives will need to strictly adhere to the above criteria and be approved by the Superintendent prior to use.

### 2.15 • Protective Anti-graffiti Finishes to Cover All Applicable Signs

All faces subject to graffiti to have a clear anti-graffiti coat (non-yellowing and UV stable) sprayed over the graphics and sign face, satin finish (not gloss).

### 2.16 • Warranty

The signmaker shall warrant all sign faces and associated works from manufacture defects (including graphics and paint), for a period of at least 10 years. This warranty shall take precedence over any other warranty stated. An alternative warranty period specified by the signmaker and within industry standards may be approved by the Superintendent.

### 2.17 • 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.

### 2.18 • Electrical Installations

General

In general, all illuminated signs shall be electrically powered. New signs requiring electrical power supply to the signs from the switchboard to be connected using only qualified personnel. Signmaker to provide circuit breaker / fuse within light box. Coordinate power requirements ie isolation / connection with the Superintendent.

New Materials

All materials and equipment relating to electrical works shall be new unless otherwise specified.

Materials, workmanship and samples

Supply and install all necessary fittings, materials and accessories to complete the works whether or not individually specified on the Drawing(s) or in this Specification.

Written approval from the Superintendent shall be obtained to vary any of the above items and samples may be required to obtain approval.

Install all items in accordance with manufacturers' instructions.

Use only material, fittings, accessories and apparatus complying with the relevant Australian Standard(s) or in the absence of such specification, with the appropriate British Standards(s).

Failure to comply with these provisions may result in the rejection by the Superintendent of such items after installation.

Tests and inspections

Provide all labour, plant, equipment and instruments necessary to carry out all the tests necessary to ensure the correct operation of the new sign system. Where required the tests shall be carried out in the presence of the Superintendent.

A "Maximum Demand Indication (MDI) Report" shall be submitted (in duplicate) with the "Notification of Electrical Work" to the Superintendent. The report is to include the printed name, signature and license number of the electrician actually carrying out the test and the printed name, signature and license number of the Contractor's electrical supervisor. The test must be carried out by a qualified electrician.

An "acceptable" MDI Report and duly completed "Notification of Electrical Work (NOEW)" certificate for all Works are to be submitted to and accepted by the Superintendent prior to the issue of the Certificate of Practical Completion.

Radio television and electrical interference

Electrical equipment shall be so designed that it will not cause interference with radio, television or other electrical equipment in the same locality. In the event of the inherent characteristics of equipment being such that interference is possible, such equipment shall be provided with effective interference suppressors to eliminate the interference.

Radio and television interference level shall be within the limits as set out in AS 1044. Electrical disturbances shall be within the limits set out in AS 2279.

### 2.19 • Illumination

Generally: Achieve optimum illumination on all illuminated signs, utilising LED backlights. LEDs are to be spaced as specified by product and manufacturing requirements to achieve an even level of illumination across the full face of the sign. Sign type drawings show indicative LED layout only. All joins to be suitably sealed to prevent light leaks.

Provide internal illumination via LED controlled by transformers /control gear. Protect within by minimum 5A circuit Breaker that switches both active and neutral conductors. Should be wired with minimum V105 rated cabling within signs - all internal cabling within supported.

LED systems

The LED system shall be GE Lumination Tetra or approved equivalent, based on the following criteria:

- LEDs to be fully enclosed, with enclosure to have a minimum IP66 rating. Exposed printed circuit board LED systems with protective or conformal coating will not be accepted.
- LED temperature should be equivalent to Cool White or approximately between 4000 - 5500 kelvins.
- Lumen maintenance of the LEDs must be at least 70% after 50,000 hours of operation.
- LED system must come with a minimum 4 year warranty on the LED system and a 5 year warranty on the power supplies.

### 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 Contractor 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 Contractor 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 Contractor 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.

- Provide engineering certification that structural supports are adequate for their intended use. Contact facility owners for structural requirements where additional information is required.

- drawings / certification required to be submitted to the Superintendent and facility owner/manager (refer '1.14 - Production Program and Review Periods') prior to manufacture, construction and erection on site.

#### 3.3 • Shop Drawings

Requirement

The Contractor shall submit shops drawings of all sign types for review prior to manufacture to the Superintendent. Refer production program.

Inclusions

Drawings shall include the following details and information where applicable:

1. Large scale (full size if practical) lettering layouts/spacing templates.
2. Sections and Details of proposed fabrication.
3. Anchorages and Fixings, locations and types.
4. Engineer's Certification on all new structural work and where additional load is place on existing structures. Design wind loading appropriate for the site.
5. Type faces, Colours and Finishes.

#### 3.4 • Final Copy

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 signage and graphic design standards drawings.

The graphics shown in the signage and graphic design standards specification drawings as Adobe Illustrator .ai or .eps files in Macintosh format can be supplied by the Superintendent. These will be provided on CD-ROM for pick up by the signmaker or sent via e-mail upon request to the Superintendent.

It is the responsibility of the signmaker to ensure that all electronic files are accurately converted and match the graphic specification drawings provided in form, size & colour. Hard copy drawings provided are to be used as the primary reference.

If the Contractor finds any text messages or graphics that are not catered for in the graphic specification drawings, the Contractor shall prepare a layout of the message of all signs at a minimum 1:10 scale and submit the layout for approval prior to production.

Braille and Tactile Graphics

Tactile and Braille signs must comply with the BCA Specification D3.6. Use approved raised tactile pictograms and text and grade 1

Braille(uncontracted) to Australian Braille Authority, NCC and AS1428.4.2(2018) requirements. It is the responsibility of the Contractor to ensure that all Braille is accurately translated and formatted. Consult with Vision Australia where required for guidance and evaluation of messages and signs.

### 4.0 • 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.

#### 4.1 • Typeface

The font families shown on the sign type drawings are 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 signmaker to purchase the font(s) as specified.

#### 4.2 • Pictograms and Arrows

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

### 5.0 • INSTALLATION STANDARDS

Site inspections are to be carried out by the Superintendent and Contractor prior to installation to verify locations, confirm all architectural details, mounting conditions and dimensions.

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 per sign location plan.

Work shall be complete with all bolts, rivets and other fittings and adequately transmit the loads and stresses imposed. Where bolting of metal work to concrete is specified, fixings to be into 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.

### 6.0 • MAINTENANCE MANUAL

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

The Contractor 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;
- Site plan detailing each sign location, type and artwork details;
- Contractors and suppliers contact list detailing all works performed and materials supplied, for example installation and footing contractor, metal, glass, Braille, 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.