

CO-OP Studio

Access Design Assessment Report Development Application

> Heffron Centre 417-439 Bunnerong Road Maroubra NSW 2035



| Project:       | Heffron Centre                            |
|----------------|---|
|                | 417-439 Bunnerong Road, Maroubra NSW 2035 |
| Document Type: | Access Design Assessment Report           |
| Our Reference: | P220_013-2 (ACCESS) FMR                   |

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Revision History—

| OUR REFERENCE           | REMARKS   | ISSUE DATE        |
|-------------------------|---|-------------------|
| P220_013-1 (ACCESS) FMR | Draft report issued to client to suit 50%<br>Schematic Design       | 11 August 2020    |
| P220_013-2 (ACCESS) FMR | Report updated to suit the DA package and issued as FINAL to client | 02 September 2020 |



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# EXECUTIVE SUMMARY

This Access Design Assessment Report has been prepared by Design Confidence at the request of CO-OP Studio and relates to the proposed Heffron Centre located at 417-439 Bunnerong Road, Maroubra NSW 2035.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the accessibility provisions of the BCA, either by complying with the prescriptive requirements or via a performance-based approach.

The recommendations within this report are to be developed with the ongoing design development and should be confirmed prior to construction certificate stage. As the design progresses, further review of documentation shall be undertaken to ensure that compliance with the accessibility provisions of the BCA is achieved.

With respect to the assessment undertaken, the following items shall be reviewed further as the project develops—

| ITEM | DESCRIPTION   | RESPONSIBILITY    |  |  |
|------|---|-------------------|--|--|
|      | As design progresses, further details shall be provided to ensure compliance with the requirements of the BCA / AS1428.1-2009 is achieved, such as: |                   |  |  |
|      | <ul> <li>Design detail relating to the accessways to the building from<br/>the site boundary and accessible parking;</li> </ul>                     |                   |  |  |
| 1    | b. Ramp and stairway details, including tactile indicators;   |                   |  |  |
| I    | c. Wet area (sanitary facilities) details, including wall elevations;   | Project architect |  |  |
|      | d. Signage details;   |                   |  |  |
|      | e. Door schedule and door hardware details;   |                   |  |  |
|      | f. Glazing schedule and visual indicators details;  |                   |  |  |
|      | <ul> <li>g. Inbuilt amplification systems (if any) and hearing<br/>augmentation systems.</li> </ul>   |                   |  |  |



# 1.0 INTRODUCTION

### 1.1 General

This report has been prepared at the request of CO-OP Studio and relates to the proposed Heffron Centre located at 417-439 Bunnerong Road, Maroubra NSW 2035.

In the context of this report and the BCA the building use can be described as follows—

| CLASSIFICATION | DESCRIPTION           |  |
|----------------|-----------------------|--|
| Class 5        | Administration spaces |  |
| Class 9b       | Assembly building     |  |

| STOREYS CONTAINED (INCLUDING BASEMENT LEVELS) |  |
|---|--|
| Two (2)                                       |  |

#### 1.1.1 Introduction

This report supports two Development Applications for the development of the Heffron Centre at Heffron Park, 417-439 Bunnerong Road, Maroubra. The Heffron Centre is a new indoor multipurpose facility, gymnastics facility and Community and High-Performance Centre (CHPC) which forms a major part of the ongoing upgrade works in Heffron Park and enables the community to have access to high-quality sporting facilities into the future.

Randwick City Council is the proponent for both of the DAs.

#### 1.1.2 <u>Background</u>

Randwick City Council has been investigating the provision of new and improved community and elite sporting facilities at Heffron Park for some time. In 2019, Council entered into an Agreement for Lease and License with the South Sydney District Rugby League Football Club (the Rabbitohs) under a Public Private Partnership to accommodate administration, training and community facilities within a Community and High-Performance Facility (CHPC) to be delivered as one component of the Heffron Centre.

#### 1.1.3 <u>Site description</u>

The subject site is located within the south-western corner of Heffron Park, at 417-439 Bunnerong Road, Maroubra as illustrated in **Figures 1** and **2**. The site is legally known as Lot 7026 DP 1026884. The site is located on the western edge of Randwick LGA, and has a primary frontage to Bunnerong Road to the west. To the west of Bunnerong Road is Bayside LGA.

The site is Crown Land owned by the NSW Department of Primary Industries, with Randwick City Council acting as the Reserve Manager.

Heffron Park is the largest recreational park in Randwick and includes playing fields, tennis and netball courts, a cycling criterium track, and an aquatic and leisure centre. The park is bounded by Bunnerong Road to the west, Fitzgerald Ave to the north, Robey Street to the east and Jersey Road to the south.

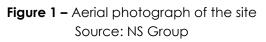
The surrounding context of the site is predominately low and medium density residential, with Southpoint Shopping Centre and a number of smaller business premises and shop-top housing located immediately to the west of the site across Bunnerong Road, with Matraville Public



School located 300m to the south-west and Champagnat Catholic College located 400m to the north.



Indicative Site Boundaries





**Figure 2 –** Locational context of the site Source: Co-op Studio, annotation by Ethos Urban

### 1.1.4 Overview of proposed development

The Heffron Centre is subject to two separate Development Applications as follows:



- **Concept Development Application** which addresses the matters set out in Clause 6.12 of the Randwick Local Environmental Plan 2012, including seeking consent for land uses, indicative building envelopes and site access arrangements; and
- **Detailed Development Application** which seeks consent for the construction and use of the Heffron Centre, including:
  - Demolition of existing buildings and structures within the site.
  - Site preparation works, including termination or relocation of site services and infrastructure, tree removal and the erection of site protection fencing.
  - Construction of the new Heffron Centre, including:
    - A Community and High-Performance Facility (CHPC).
    - An indoor multi-purpose sporting facility.
    - A local indoor gymnastics centre.
    - Installation of floodlighting to the Showcase Field.
  - Car parking for 143 spaces, including a combination of staff and visitor spaces, accessed via the existing signalised intersection of Bunnerong Road and Flint Street.
  - Building identification signage.
  - Public domain works within the site, including new landscaping and tree planting.

Full details of the proposed development are included in the Architectural Drawings prepared by Co-op Studio which accompany the Development Applications.

The construction of the Showcase Field is subject of an existing approval under Part 5 of the *Environmental Planning and Assessment Act 1979*, and accordingly is not within the scope of this Development Application.

### 1.2 Purpose of Report

The purpose of this report is to identify the extent to which the architectural design documentation complies with the accessibility provisions of the National Construction Code – Building Code of Australia Volume 1, Edition 2019 Amendment 1 (hereinafter referred to as the BCA), as are principally contained within Parts D3, E3.6, F2.4 and F2.9.

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.

### 1.3 Documentation Provided for Assessment

This assessment is based upon the architectural documentation prepared by CO-OP Studio and listed within **Appendix 1**.

#### 1.4 Limitations

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.



This assessment does not contain comments regarding detailed design issues such as (but not limited to): luminance contrast, slip resistance, handrail design, door schedule and door hardware specification, hearing augmentation systems, location of fittings within sanitary compartments and lift specification.

## 1.5 Report Exclusions

It is conveyed that this report should not be construed to infer that an assessment for compliance with the following has been undertaken—

- (i) Work Health & Safety Act and Regulations; and
- (ii) Work Cover Authority requirements; and
- (iii) Structural and Services Design Documentation; and
- (iv) The Disability Discrimination Act (DDA) 1992; and
- (v) Any parts of the BCA or any standards other than those directly referenced in this report.

## 1.6 BCA Assessment – Interpretation Notes

To provide the reader with additional context the following information regarding assessment methodology used in this assessment is provided below—

- (i) The following rooms / areas and associated accessways have been afforded the concession under D3.4 and access for people with disabilities need not be provided to these areas—
  - Plant and equipment rooms;
  - Store rooms;
  - Kitchen on Ground Floor;
  - Loading;
  - Cleaner's room/s.
- (ii) Movable furniture is the ongoing responsibility of the occupants who should maintain appropriate circulation spaces between and around furnishings;
- (iii) The Kitchen on the Ground Floor has been considered as a commercial/professional kitchen associated with the Café and afforded the concession under D3.4;
- (iv) The Future Car Park extension (100 spaces) has not been included in this assessment.



# 2.0 BCA ACCESS DESIGN ASSESSMENT SUMMARY

## 2.1 Interpretation

The following tables summarise the compliance status of the architectural design in terms of each *applicable* prescriptive provision of the BCA and indicates a **capability for compliance** ('COMPLIES') with the accessibility provisions of the BCA.

A detailed analysis and commentary are provided in **Section 3.0** of this report in the instance that prescriptive non-compliance occurs ('DOES NOT COMPLY') or further 'DESIGN DETAIL' is required. Such instances should not necessarily be considered BCA deficiencies, but rather matters which need to be considered by the design team, the certifying authority and all other relevant stakeholders as design progresses.

# 2.2 Part D3 – Access for People with a Disability

|       | BCA CLAUSE                           | COMPLIES | DOES NOT<br>COMPLY | DESIGN<br>DETAIL |
|-------|--------------------------------------|----------|--------------------|------------------|
| D3.1  | General building access requirements |          |                    | $\checkmark$     |
| D3.2  | Access to buildings                  |          |                    | $\checkmark$     |
| D3.3  | Parts of buildings to be accessible  |          |                    | $\checkmark$     |
| D3.5  | Accessible carparking                |          |                    | $\checkmark$     |
| D3.6  | Signage                              |          |                    | $\checkmark$     |
| D3.7  | Hearing augmentation                 |          |                    | ✓                |
| D3.8  | Tactile indicators                   |          |                    | ✓                |
| D3.9  | Wheelchair seating spaces            |          |                    | ✓                |
| D3.10 | Swimming pools                       | N/A      |                    |                  |
| D3.11 | Ramps                                |          |                    | ✓                |
| D3.12 | Glazing on an accessway              |          |                    | $\checkmark$     |

# 2.3 Part E3.6 – Passenger Lifts

|      | BCA CLAUSE      | COMPLIES | DOES NOT<br>COMPLY | DESIGN<br>DETAIL |
|------|-----------------|----------|--------------------|------------------|
| E3.6 | Passenger lifts |          |                    | $\checkmark$     |

# 2.4 Part F2.4 – Accessible Sanitary Facilities

|      | BCA CLAUSE   | COMPLIES | DOES NOT<br>COMPLY | DESIGN<br>DETAIL |
|------|--|----------|--------------------|------------------|
| F2.4 | F2.4 Accessible unisex sanitary compartments                   |          |                    | ✓                |
| F2.4 | F2.4 Sanitary facilities for people with ambulant disabilities |          |                    | $\checkmark$     |

# 2.5 Part F2.9 – Accessible Adult Change Facilities

|      | BCA CLAUSE                         | COMPLIES | DOES NOT<br>COMPLY | DESIGN<br>DETAIL |
|------|------------------------------------|----------|--------------------|------------------|
| F2.9 | Accessible adult change facilities | N/A      |                    |                  |



# 3.0 BCA DETAILED ASSESSMENT

### 3.1 General

With reference to the BCA Access Design Assessment Summary contained in **Section 2.0** above, the following analysis and commentary is provided.

In all instances, reference is also made to **Appendix 2**, which contains design guidance and other items which shall be coordinated by the relevant stakeholders as design progresses to ensure compliance with the deemed-to-satisfy (DtS) accessibility provisions of the BCA is achieved.

Furthermore, the analysis below contains preliminary advice regarding opportunities for the implementation of a performance-based approach in lieu of complying with the prescriptive (DtS) provisions of the BCA.

### 3.2 Part D3 – Access for People with a Disability

#### 3.2.1 <u>Clause D3.1 – General building access requirements</u>

| BUILDING CLASS |  |
|----------------|--|
| Class 5        | Access is required to and within all areas normally used by the occupants.   |
| Class 9b       | Access is required to be provided to and within all areas normally used<br>by the occupants, including to wheelchair seating spaces provided in<br>accordance with Clause D3.9. Access is not required to be provided to<br>tiers/platforms of seating areas that do not contain wheelchair seating<br>spaces. |
| All buildings  | Access is not required to be provided to the areas afforded the concession under Clause D3.4 and identified in <b>Section 1.6</b> above.   |

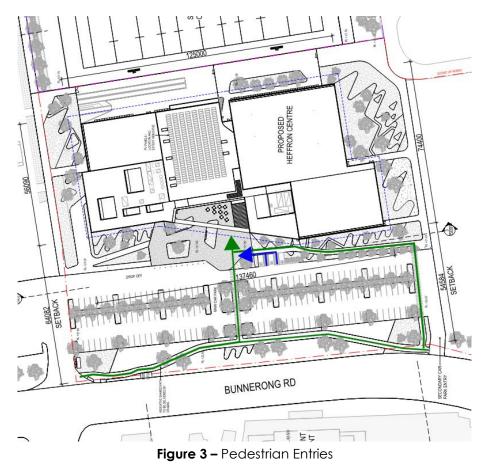
The following comments are provided in regards the requirements of Clause D3.1 of the BCA-

| DESCRIPTION | COMMENT   | RESOLUTION  |
|-------------|---|---|
| Doors       | Internal doors are shown with<br>reduced access features in some<br>locations, such as reduced clear<br>opening and reduced circulation | Design detail – door throughout shall<br>be in accordance with Clause 13 of<br>AS1428.1-2009.   |
|             | spaces  | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

#### 3.2.2 <u>Clause D3.2 – Access to buildings</u>

An accessway to the building is proposed from the site boundary at Bunnerong Road, refer to Figure 3 below in **green**. The accessway from the proposed accessible parking is shown below in **blue**.





The following comments are provided in regards the requirements of Clause D3.2 of the BCA-

| DESCRIPTION | COMMENT | RESOLUTION   |
|-------------|---------|--|
| Accessway   | ,       | An assessment will be undertaken as<br>the external works / landscape<br>drawings are developed. |

#### 3.2.3 <u>Clause D3.3 – Parts of the building to be accessible</u>

The following comments are provided in regards the requirements of Clause D3.3 of the BCA-

| DESCRIPTION                    | COMMENT  | RESOLUTION  |
|--------------------------------|--|---|
| Turning<br>spaces- 180°        | An end-of-corridor turn is not<br>achieved at the following locations –<br>a. Kitchen area within the Players<br>Lounge; | Design detail – corridor width shall be<br>not less than 1540mm in order to<br>accommodate the required turning<br>space at the relevant locations. |
|                                | b. Corridor between the<br>Community Change and<br>Gymnastics Change on Ground<br>Floor.                                 |   |
| Stairway –<br>Design<br>detail | All 3 x stairways proposed will be required with accessibility features in   | Level of detail provided is suitable for<br>DA stage. As design progresses to   |



| DESCRIPTION | COMMENT  | RESOLUTION  |
|-------------|--|---|
|             | accordance with Clause 11 and 12 of AS1428.1-2009. | CC, provide detailed stair drawings for review and comment. |

#### 3.2.4 <u>Clause D3.4 – Exemptions</u>

Refer to **Section 1.6** above for areas afforded the concession under D3.4.

#### 3.2.5 <u>Clause D3.5 – Accessible carparking</u>

The following comments are provided in regards the requirements of Clause D3.5 of the BCA-

| DESCRIPTION        | COMMENT   | RESOLUTION   |
|--------------------|---|--|
| Minimum<br>numbers | Per information provided during<br>design meeting, a total 143 parking<br>spaces are proposed, being three (3)<br>designated as accessible parking<br>spaces. | Compliance is achieved with the<br>requirements of this clause relating to<br>the minimum number of accessible<br>parking spaces required for a Class<br>5/9b building, being 1 accessible<br>parking space per 50 parking spaces<br>or part thereof |
| Accessway          | There shall be an accessway<br>compliant with A\$1428.1-2009 from<br>the accessible parking spaces to the<br>building entry.                                  | An assessment will be undertaken as<br>the external works / landscape<br>drawings are developed.   |

#### 3.2.6 <u>Clause D3.6 – Signage</u>

The following comment is provided in regards the requirements of Clause D3.6 of the BCA-

| DESCRIPTION | COMMENT  | RESOLUTION  |
|-------------|--|---|
| General     | Signage details have not yet been provided for assessment. | Signage will be required in accordance with the requirements of this clause.  |
|             |  | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

#### 3.2.7 <u>Clause D3.7 – Hearing augmentation</u>

The following comment is provided in regards the requirements of Clause D3.7 of the BCA—

| DESCRIPTION | COMMENT | RESOLUTION  |
|-------------|---------|---|
| General     | •       | A hearing augmentation system will<br>be required where an inbuilt<br>amplification system (not being one |



| DESCRIPTION | COMMENT | RESOLUTION  |
|-------------|---------|---|
|             |         | for emergency warning only) is provided.  |
|             |         | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

#### 3.2.8 <u>Clause D3.8 – Tactile indicators</u>

The following comment is provided in regards the requirements of Clause D3.8 of the BCA-

| DESCRIPTION | COMMENT   | RESOLUTION   |
|-------------|---|--|
| General     | Tactile indicators at stairways and<br>ramps have not yet been detailed<br>within the design documentation. | Tactile indicators at stairways and<br>ramps will be required in<br>accordance with the requirements<br>of this clause.                                  |
|             |   | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed stair and ramp<br>drawings for review and comment. |

#### 3.2.9 <u>Clause D3.9 – Wheelchair seating spaces in Class 9b assembly buildings</u>

The following comment is provided in regards the requirements of Clause D3.9 of the BCA—

| DESCRIPTION     | COMMENT  | RESOLUTION  |
|-----------------|--|---|
| Lecture<br>room | It is understood that fixed seating will<br>be provided within the Lecture room<br>on Ground Floor, being ~72 seats. | For up to 150 seat, a minimum three<br>(3) wheelchair seating spaces are<br>required, being 1 single space and 1<br>group of 2 spaces.    |
|                 |  | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |
|                 |  | NOTE: Wheelchair seating spaces<br>may be achieved by providing<br>removable seating.   |

#### 3.2.10 <u>Clause D3.10 – Swimming pools</u>

Not applicable – the perimeter of each pool within the Aquatics area on Ground Floor is not more than 40m.



#### 3.2.11 <u>Clause D3.11 – Ramps</u>

The following comment is provided in regards the requirements of Clause D3.11 of the BCA-

| DESCRIPTION | COMMENT                                    |       | RESOLUTION  |
|-------------|--|-------|---|
| General     | No ramps and/or step currently documented. | ramps | Further comment may arise pending design development relating to the accessway from the site boundary.                                    |
|             |  |       | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

#### 3.2.12 <u>Clause D3.12 – Glazing on an accessway</u>

The following comment is provided in regards the requirements of Clause D3.12 of the BCA-

| DESCRIPTION | COMMENT   | RESOLUTION  |
|-------------|---|---|
| General     | Visual indicators have not yet been detailed within the design documentation. | Visual indicators will be required in accordance with the requirements of this clause.  |
|             |   | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

# 3.3 Part E3.6 – Passenger Lifts

The following comment is provided in regards the requirements of Clause E3.6 of the BCA—

| DESCRIPTION | COMMENT   | RESOLUTION   |
|-------------|---|--|
| General     | A single passenger lift is proposed within the subject development. | Every passenger lift proposed must<br>comply BCA Clause E3.6 and<br>A\$1735.12-1999 as applicable to the<br>subject lift type.                       |
|             |   | Level of detail provided is suitable for<br>DA stage. A certificate of<br>compliance from the lift supplier will<br>be required prior to occupation. |

### 3.4 Part F2.4 – Accessible Sanitary Facilities

#### 3.4.1 <u>Accessible unisex sanitary facilities</u>

The following comments are provided in regards the requirements of Clause F2.4 of the BCA relating to accessible sanitary facilities—



| DESCRIPTION                                      | COMMENT  | RESOLUTION  |
|--|--|---|
| Transfer side                                    | Both these sanitary compartments<br>for use by the community (being the<br>accessible sanitary compartments at<br>the "Public" toilets and at the<br>"Community Change" toilets) are<br>provided as suitable for right-handed<br>transfer.   | Design detail – there shall be a<br>balance of LH and RH facilities.<br>It is suggested that within the<br>accessible WC at the "Public" toilets,<br>the position of the basin and toilet<br>pan is swapped to achieve<br>compliance with this requirement. |
| Accessible<br>showers –<br>Minimum<br>provisions | A single accessible shower is<br>proposed in the sanitary<br>compartments for use by the<br>community (being the accessible<br>sanitary compartments at the<br>"Public" toilets and at the<br>"Community Change" toilets).<br>A minimum two (2) accessible<br>showers are required for use of the<br>participants in the sanitary<br>compartments for use by the | Design detail – an additional shower<br>shall be provided in the accessible<br>compartment at the "Public" toilets.   |
|  | community.   |   |
| Accessible<br>showers                            | A shower is not yet shown to the accessible WC associated with the Multi-Purpose Change on Ground Floor.   | Design detail – a shower shall be<br>provided within this accessible<br>sanitary compartment.   |
| Detailed<br>design                               | All fittings and fixtures within<br>accessible sanitary compartments<br>are required to be provided in<br>accordance with Clause 15 of<br>AS1428.1-2009.   | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comme nt.  |

#### 3.4.2 Sanitary compartment for people with ambulant disabilities

The following comments are provided in regards the requirements of Clause F2.4 of the BCA relating to sanitary facilities for people with ambulant disabilities—

| DESCRIPTION        | COMMENT                      | RESOLUTION  |
|--------------------|------------------------------|---|
| Detailed<br>design | compartments for people with | Level of detail provided is suitable for<br>DA stage. As design progresses to<br>CC, provide detailed drawings for<br>review and comment. |

# 3.5 Part F2.9 – Accessible Adult Change Facilities

Not applicable.



# 4.0 CONCLUSION

### 4.1 General

Our strategy for ensuring compliance will be refined and documented during the design process in conjunction with the continual development of the architectural documentation, as required.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the relevant accessibility provisions of the National Construction Code – Building Code of Australia Volume 1, Edition 2019 Amendment 1, subject to the comments provided in **Section 3.0** and the design detail contained in **Appendix 2**.

Compliance can be achieved either by meeting the deemed-to-satisfy requirements of the BCA, as are principally contained within Parts D3, E3.6, F2.4 and F2.9, or via a performance-based approach.

We trust that the above information is sufficient for the consent authority in assessing the merit of the architectural design from a planning perspective.

Report By

Fatima Mendes Raposo Consultant | Accessibility For Design Confidence (Sydney) Pty Ltd

Verified By

M.

Luke Sheehy Principal For Design Confidence (Sydney) Pty Ltd



# APPENDIX 1 – Documentation Provided for Assessment

This accessibility assessment was based upon the architectural documentation prepared by CO-OP Studio, namely—

| DRAWING | REV | TITLE                                    | DATE       |
|---------|-----|--|------------|
| DA011   | D   | Existing and Demolition – Site Plan      | 31.08.2020 |
| DA012   | D   | Site Plan                                | 31.08.2020 |
| DA051   | D   | Site Sections                            | 31.08.2020 |
| DA091   | D   | Shadow Analysis                          | 31.08.2020 |
| DA112   | D   | Site Plan                                | 31.08.2020 |
| DA095   | D   | 3D Axonometrics                          | 31.08.2020 |
| DA201   | D   | General Arrangement Plan – Ground Floor  | 31.08.2020 |
| DA202   | D   | General Arrangement Plan – Level 1 Floor | 31.08.2020 |
| DA203   | D   | General Arrangement Plan - Roof          | 31.08.2020 |
| DA401   | D   | Building Elevations – North & South      | 31.08.2020 |
| DA401   | D   | Building Elevations - East & West        | 31.08.2020 |
| DA501   | D   | Building Sections – A & B                | 31.08.2020 |
| DA502   | D   | Building Sections – C & D                | 31.08.2020 |
| DA951   | D   | Shadow Analysis                          | 31.08.2020 |
| DA961   | D   | Area Analysis                            | 31.08.2020 |
| DA971   | D   | Photomontages                            | 31.08.2020 |
| DA972   | D   | Photomontages                            | 31.08.2020 |
| DA973   | D   | Photomontages                            | 31.08.2020 |



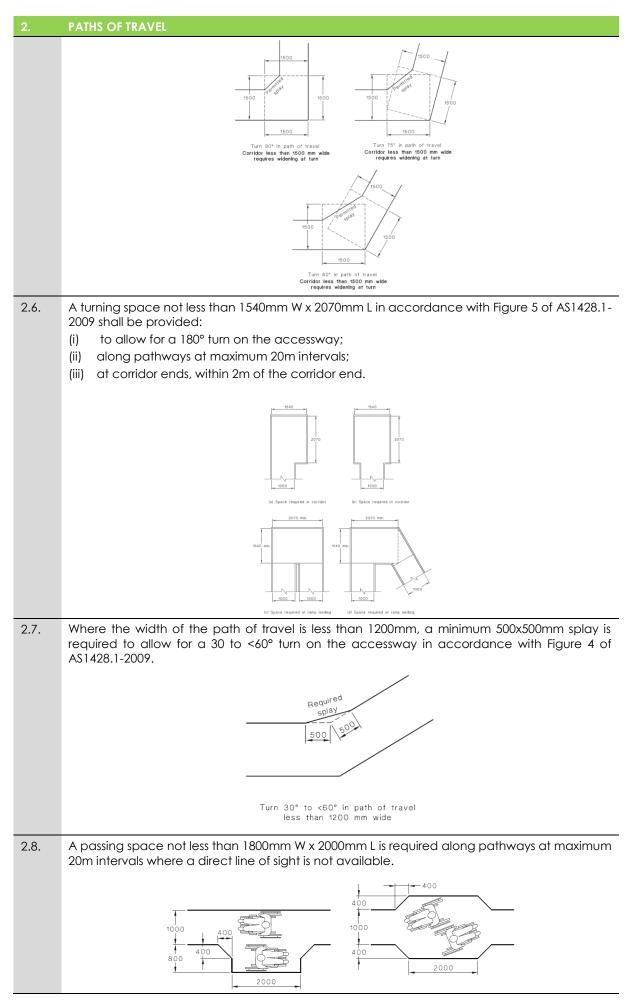
# APPENDIX 2 - Design Checklist - Prescriptive Requirements

The following design guidance checklist is provided for implementation and coordination during construction in order to achieve compliance with the prescriptive requirements of the BCA, AS1428.1-2009, AS/NZS1428.4.1:2009, AS1735.12-1999 and AS/NZS2890.6:2009 as applicable.

| 1.   | ACCESS TO BUILDINGS  |
|------|--|
| 1.1. | Provide an accessible path of travel compliant with A\$1428.1-2009 from all main pedestrian entry points at the site boundary to the principal pedestrian entrance/s of the building.  |
| 1.2. | <ul> <li>Where a building is afforded with multiple pedestrian entries, an accessway shall be provided through and through:</li> <li>(i) The principal pedestrian entrance (PPE); and</li> <li>(ii) Not less than 50% of pedestrian entrances, including the PPE.</li> </ul> |
|      | Where the building area is greater than 500m <sup>2</sup> :<br>(i) A non-accessible pedestrian entrance shall not be located more than 50m from an accessible pedestrian entrance.   |
| 1.3. | Provide an accessible path of travel compliant with A\$1428.1-2009 from another building connected by a pedestrian link (not being the public footpath) within the allotment.  |
| 1.4. | Provide an accessible path of travel compliant with A\$1428.1-2009 from accessible car parking spaces on the site.   |
| 1.5. | An accessible path of travel/accessway shall be in accordance with AS1428.1-2009 as applicable.<br>Note: this includes requirements relating to floor finishes, stairway, ramps, doorways etc. Refer to the relevant section below for further detail.                       |

| 2.   | PATHS OF TRAVEL  |
|------|--|
| 2.1. | A continuous accessible path of travel shall not include a step, stairway, turnstile, revolving door, escalator, moving walk or the like.  |
| 2.2. | Provide 1000mm minimum clear width of path of travel compliant with AS1428.1-2009.<br>Note: the width of the path of travel shall be taken clear of any obstructions, such as handrails,<br>kerb rails, skirting, fire hose reels, fire extinguishers or the like. |
| 2.3. | The minimum unobstructed height of a continuous path of travel shall be 2000mm or 1980mm at doorways.  |
| 2.4. | An accessway shall be provided with turning spaces in accordance with the BCA and A\$1428.1-2009 where required.   |
| 2.5. | A turning space not less than 1500 x 1500mm is required to allow for a 60-90° turn on the accessway. A splay across the internal corner is permitted in accordance with Figure 4 of A\$1428.1-2009.  |



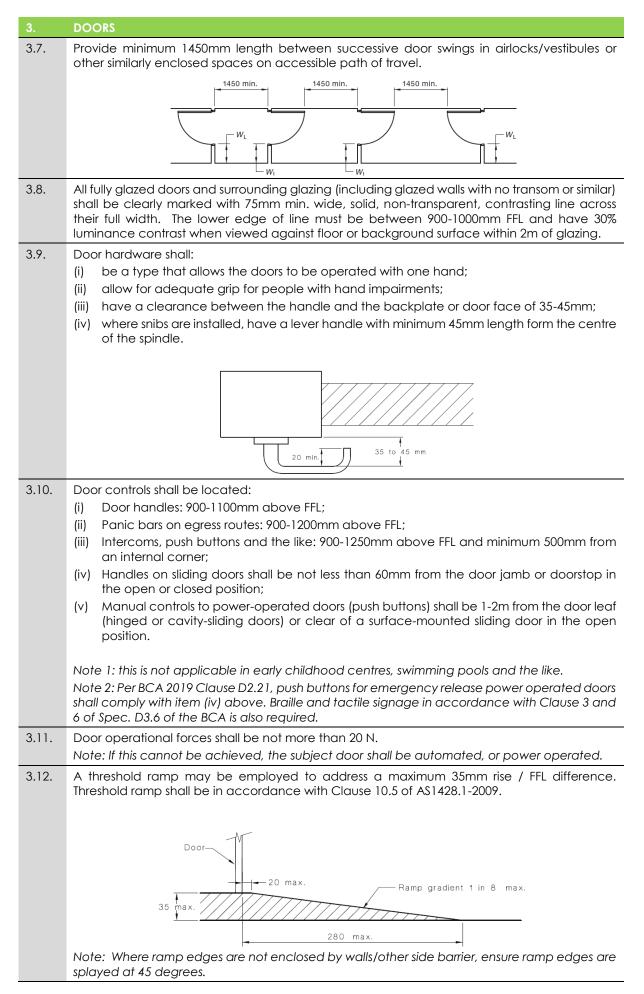




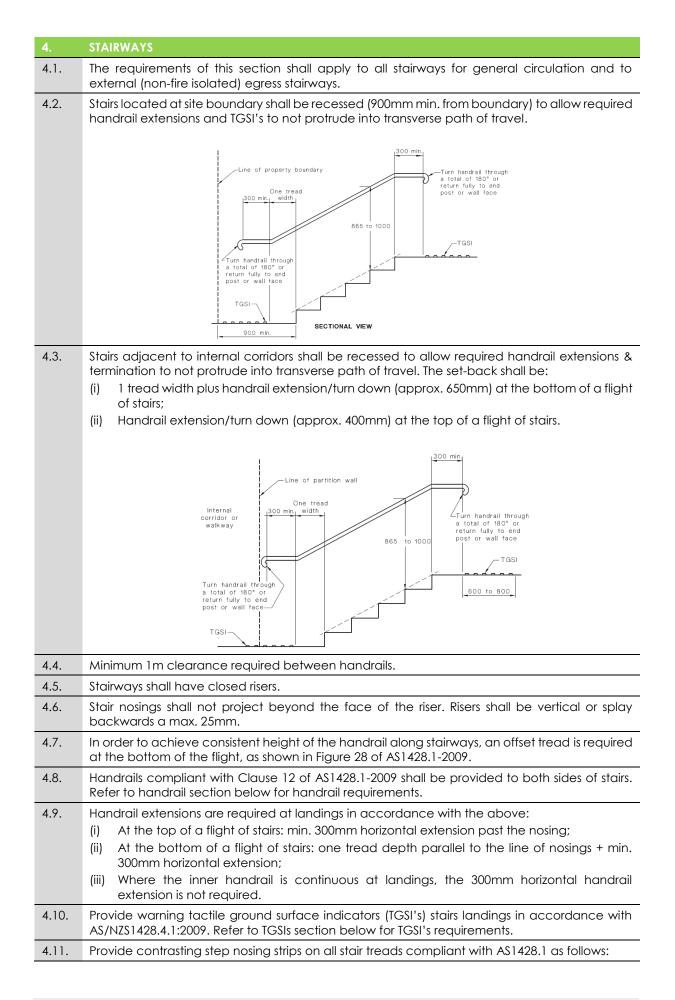
| 2.    | PATHS OF TRAVEL   |
|-------|---|
| 2.9.  | Floor finishes and abutment of surfaces shall be in accordance with Clause 7 of AS1428.1-2009.<br>Note: Reference is made to BCA Clause D2.14 in regards slip resistance requirements.  |
| 2.10. | Where carpet or similar soft flexible flooring surface is proposed, the pile height shall be no more than 11mm with 4mm max backing surface.  |
| 2.11. | Ensure drainage grates on accessible path of travel have openings no more than 13mm wide<br>(or 13mm diameter).<br>Slotted openings shall be oriented such that the long dimension is transverse to the direction<br>of travel. |
| 2.12. | Where recessed matting is proposed, it shall be in accordance with Clause 7.4.2 of AS1428.1-2009.   |

| 3.   | DOORS   |  |
|------|---|--|
| 3.1. | Every door and/or gate on the accessway shall be in accordance with Clause 13 of AS1428.1-2009.   |  |
| 3.2. | Minimum 850mm clear opening width (generally required 920mm door leaf), measured from<br>the face of the door to the door stop.<br>Note: where double doors are proposed, at least the active/operable leaf shall achieve the<br>minimum 850mm clear opening width.   |  |
|      | 850 min.       Door handle       850 min.       Face of door         Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening         Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening         Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening       Image: Clear opening         Image: Clear opening |  |
|      | Door handle<br>Clear opening<br>Go min.<br>Go min.  |  |
| 3.3. | (c) Surface-mounted sliding door<br>A minimum 30% luminance contrast shall be provided at doorways for ease of visual<br>identification for people with vision impairment. The contrasting area (e.g. wall, architrave etc.)  |  |
| 3.4. | must have minimum 50mm width.<br>Every door and/or gate on the accessway shall be provided with circulation space on both sides to allow for operation of the door.   |  |
| 3.5. | Circulation spaces shall be not steeper than 1:40. Refer to Figure 31 (hinged doors) and Figure 32 (sliding doors) of A\$1428.1-2009 for the minimum required depth, latch-side and hinge-side circulation spaces as applicable.  |  |
| 3.6. | Where surface-mounted sliding doors are proposed, the circulation spaces shall be increased<br>by a factor of t as shown in Figure 33 of AS1428.1-2009.<br>Note: The factor t is the wall thickness to the face of the door.<br>$\underbrace{\frac{W_{\text{H}}}{\int}}_{\text{Surface-mounted}}$   |  |
|      | Door approach         Increase from Figure 32           Figure 32(d)         Add dimensions t to dimensions W <sub>1</sub> and W <sub>1</sub>   |  |
|      | Figure 32(a), 32(b), 32(c) Add dimensions t to dimensions $L$ , $W_L$ and $W_H$   |  |

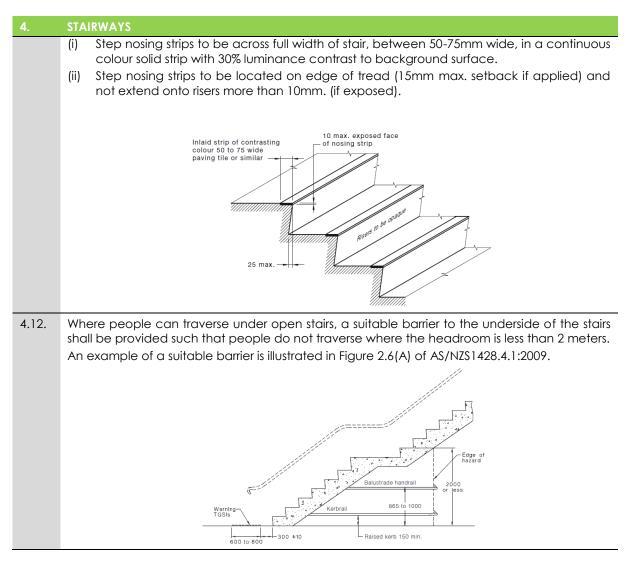












#### 5. HANDRAILS

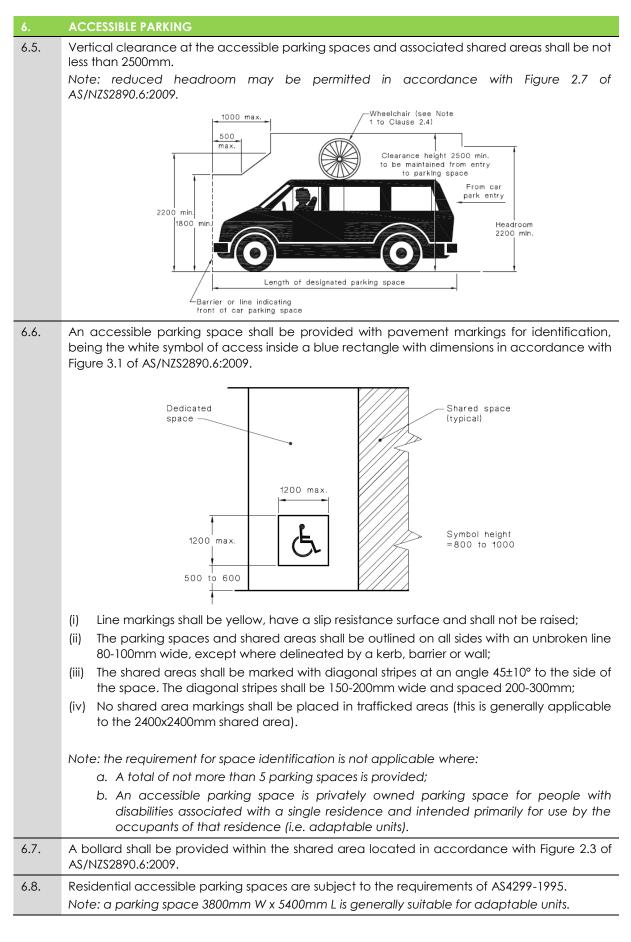
5.1. All stairs and ramps shall be provided in accordance with Clause 12 of A\$1428.1-2009, including fire-isolated stairways and ramps. Note: for stairs/ramps in areas afforded the concession under D3.4, handrails are only required to comply with Clause D2.17 of the BCA.
5.2. The cross section of handrail shall be circular/elliptical handrails have 30mm - 50mm diameter, with 270-degree clear arc around top of handrail (extending for 600mm min. height) compliant with Figure 29 of A\$1428.1-2009.
5.4. The cross section of handrail shall be circular/elliptical handrails have 30mm - 50mm diameter, with 270-degree clear arc around top of handrail (extending for 600mm min. height) compliant with Figure 29 of A\$1428.1-2009.



| 5.    | HANDRAILS  |
|-------|--|
| 5.3.  | Handrails shall be installed at a consistent height between 865mm - 1000mm height above step<br>nosing or FFL ramp surface.<br>NB. The specified height should allow for construction tolerance as outside of this range will be<br>non-compliant. |
| 5.4.  | Where a balustrade for fall protection is required at a height above 1m, both the balustrade and the handrails shall be provided.  |
| 5.5.  | Handrails shall have no vertical sections.   |
| 5.6.  | In order to achieve consistent height of the handrail along stairways, an offset tread is required at the bottom of the flight, as shown in Figure 28 of AS1428.1-2009.  |
| 5.7.  | Handrails shall be installed no less than 50mm away from an adjacent side wall/ obstruction (finger clearance).  |
| 5.8.  | Refer to Stairs and Ramps sections for the requirements relating to handrail extensions.   |
| 5.9.  | Handrail ends shall be turned through a total of 180° OR to the ground OR returned fully to the end post/wall face. Suitable handrail ends are shown in Figure 26 (C) of AS1428.1-2009.  |
| 5.10. | The inner handrail shall always be continuous at landings.   |

| 6.   | ACCESSIBLE PARKING  |  |
|------|---|--|
| 6.1. | <ul> <li>Minimum required dimensions:</li> <li>(i) Dedicated parking space shall be 2400mm W x 5400mm L (minimum);</li> <li>(ii) A shared area shall be provided to one side of the dedicated parking space, being 2400mm W x 5400mm L (minimum);</li> <li>(iii) A shared area shall be provided at one end of the parking space, being 2400mm W x 2400mm L.</li> </ul> |  |
| 6.2. | The ground surface shall be firm, plane, slip resistant and traversable by people with disabilities (hence surfaces such as loose gravel and grass are not acceptable).   |  |
| 6.3. | Accessible parking spaces and shared areas shall at the same grade and the ground surface shall be not steeper than 1:40 (1:33 for external bitumen surfaces is acceptable).  |  |
| 6.4. | Vertical clearance leading to the accessible parking spaces shall be not less than 2200mm.  |  |





| 7.   | SIGNAGE  |
|------|--|
| 7.1. | Braille and tactile signage will be required to: |



| 7.   | SIGNAGE  |  |  |
|------|--|--|--|
|      | <ul> <li>(i) Identify each sanitary facility, including an accessible sanitary facility and a sanitary compartment suitable for people with ambulant disabilities;</li> <li>(ii) Identify each space provided with hearing augmentation;</li> <li>(iii) Within each space provided with hearing augmentation;</li> <li>(iv) Identify each door required by BCA Clause E4.5 to be provided with an exit sign;</li> <li>(v) Identify a sanitary compartment suitable for people with ambulant disabilities;</li> <li>(vi) At entry doors to airlocks containing either accessible and/or ambulant WCs, identifying each facility provided within.</li> </ul> |  |  |
| 7.2. | <ul> <li>Braille and tactile directional signage will be required at:</li> <li>(i) A non-accessible pedestrian entrance to direct a person to the nearest accessible entrance;</li> <li>(ii) A sanitary bank which is not provided with an accessible sanitary facility to direct a person to the nearest accessible sanitary facility.</li> </ul>   |  |  |
| 7.3. | Signage required to comply with Clause D3.6 of the BCA shall be in accordance with BCA Spec. D3.6 and Clause 8 of AS1428.1-2009.   |  |  |
| 7.4. | Per BCA 2019, signage complying with Clause 3 and 6 of Specification D3.6 shall be provided to identify the latch-operation device (manual controls for power-operated doors).   |  |  |
| 7.5. | At standard sanitary facilities, the signage shall include:<br>(i) Minimum required message: "Male Toilet" or "Female Toilet", as applicable;<br>(ii) Raised & visual versions of the male and female symbols;<br>(iii) Braille that fully describes the information displayed by symbols and text.  |  |  |
| 7.6. | At an accessible sanitary facility, the signage shall include:<br>(i) Minimum required message: "Unisex Toilet RH" or "Unisex Toilet LH" (as applicable)<br>(ii) Information if the toilet pan is suitable for RH or LH transfer;<br>(iii) Raised & visual versions of the international symbol of access;<br>(iv) Raised & visual versions of the male and female symbols;<br>(v) Braille that fully describes the information displayed by symbols and text.<br>Unisex Toilet RH<br>Unisex Toilet RH   |  |  |
| 7.7. | <ul> <li>At an ambulant sanitary compartment, the signage shall include:</li> <li>(i) Minimum required message: "Ambulant Male Toilet" or "Ambulant Female Toilet", as applicable;</li> <li>(ii) Raised &amp; visual versions of the male and female ambulant symbols;</li> <li>(iii) Braille that fully describes the information displayed by symbols and text.</li> </ul>   |  |  |

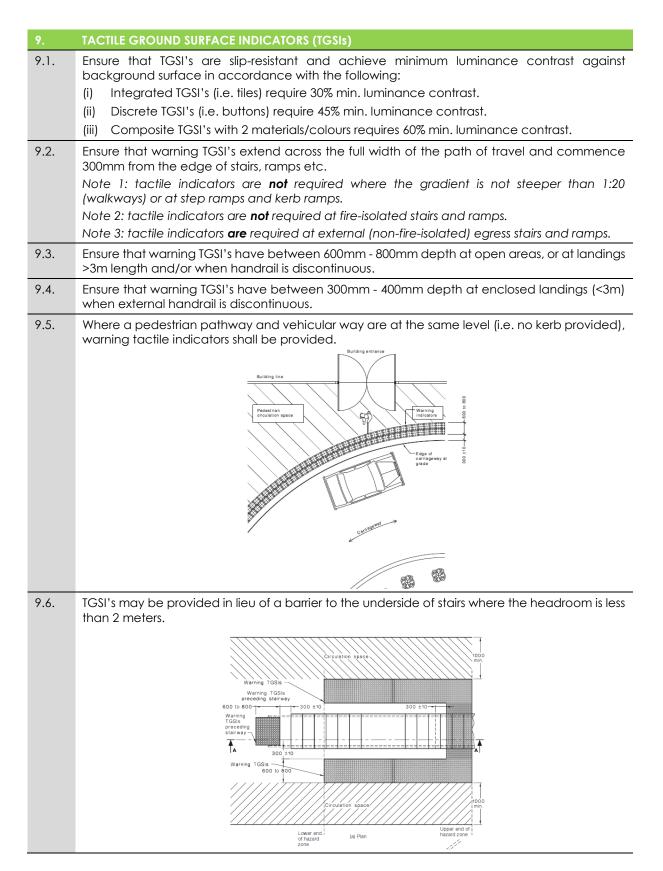


| 7.    | SIGNAGE  |
|-------|--|
| 7.8.  | Female Ambulant<br>Toilet  |
| 7.0.  | <ul> <li>(i) The word "Exit"; and</li> <li>(ii) The word "Level" and the floor level number OR a floor level descriptor OR a combination of both the number and the descriptor;</li> <li>(iii) Braille that fully describes the information display by text.</li> </ul>  |
| 7.9.  | At the door to rooms/spaces provided with hearing augmentation, the signage shall include raised & visual versions of the international symbol of deafness.  |
| 7.10. | <ul> <li>Within the room/spaces provided with hearing augmentation, the signage shall include:</li> <li>(i) The type of hearing augmentation;</li> <li>(ii) The area covered within the room;</li> <li>(iii) If receivers are being used &amp; where they can be obtained.</li> </ul>  |
| 7.11. | Directional signage shall include:<br>(i) A wayfinding arrow that indicates the location of the subject accessible facility (being an accessible toilet or accessible entry);<br>(ii) Raised & visual versions of the international symbol of access;<br>(iii) Raised text that describes the subject accessible facility;<br>(iv) If the accessible path of travel to the subject accessible facility is on a different level, include a symbol to denote travel via lift (if applicable).<br>Unisex Toilet Level 3<br>Direction<br>Information |
| 7.12. | <ul> <li>Location of signage:</li> <li>(i) Braille and tactile components shall be at a height of 1200-1600mm above FFL; and</li> <li>(ii) On the wall on the latch-side of the door, leading edge of the sign 50-300mm from the architrave, except at ambulant sanitary facilities;</li> <li>(iii) Where b. is not possible, signage shall be on the door itself; and</li> <li>(iv) At ambulant sanitary facilities, the signage shall be placed on the door.</li> </ul>  |
| 7.13. | Minimum 30% luminance contrast between the wall/door to the backplate of the sign and between the backplate and the symbols, tactile and braille contained in the sign.  |

| 8.   | HEARING AUGMENTATION   |
|------|--|
| 8.1. | Provide hearing augmentation in the following areas if an inbuilt amplification system is installed (except one used for emergency warning systems only):<br>(i) Rooms in Class 9 buildings; |



| 8.   | HEARING AUGMENTATION   |
|------|--|
|      | (ii) Auditoriums, conference and meeting rooms, judicatory, and;   |
|      | (iii) Service counters screened to the public (e.g. reception, ticket/teller booths).  |
| 8.2. | Hearing loops are required to at least 80% of floor area with inbuilt amplification system.  |
| 8.3. | For Class 9b buildings, any screen or scoreboard that can display public announcements, to be capable of supplementing the public address system (excluding emergency warning only). |





| 10.   | WHEELCHAIR SEATING SPACES   |
|-------|---|
| 10.1. | Ensure the grouping and location of all wheelchair seating spaces is in accordance with BCA Table D3.9.   |
| 10.2. | For up to 150 seats: Provide 3 wheelchair seating spaces (for up to 150 seats) and 1 additional space for each additional 50 seats or part thereof (from 150-800 seats).  |
|       | The required grouping is 1 x single space and 1 x group of 2 spaces.  |
| 10.3. | For 151-800 seats: Provide 3 wheelchair seating spaces + 1 additional space for each additional 50 seats or part thereof over 150 seats.  |
|       | Required grouping: not less than 1 x single space AND not less than 1 x group of 2 spaces AND not more than 5 spaces in any other group.  |
| 10.4. | For 801 to 10,000 seats: Provide 16 wheelchair seating spaces + 1 additional space for each additional 100 seats or part thereof over 800 seats.  |
|       | Required grouping: not less than 2 x single spaces AND not less than 2 x groups of 2 spaces AND not more than 5 spaces in any other group.  |
|       | The location of spaces is to be representative of the range of seats offered.   |
| 10.5. | For more than 10,000 seats: Provide 108 wheelchair seating spaces + 1 additional space for each additional 200 seats or part thereof over 10,000 seats.   |
|       | Required grouping: not less than 5 x single spaces AND not less than 5 x groups of 2 spaces AND not more than 10 spaces in any other group.   |
|       | The location of spaces is to be representative of the range of seats offered.   |
| 10.6. | Ensure all wheelchair seating spaces are:<br>(i) Designed in accordance with A\$1428.1 fig. 54;   |
|       | (ii) Adjacent to and on same level as other seating in the row;   |
|       | (iii) Connected on accessible path of travel to main entry, accessible toilet and common facilities, and;   |
|       | (iv) Equitably located with comparable sight lines and not obstructed by handrails/balustrades.   |
| 10.7. | Wheelchair seating spaces may be achieved by providing removable seating.<br>Note: this will require the implementation of a suitable management plan to ensure wheelchair<br>seating spaces are readily available. |

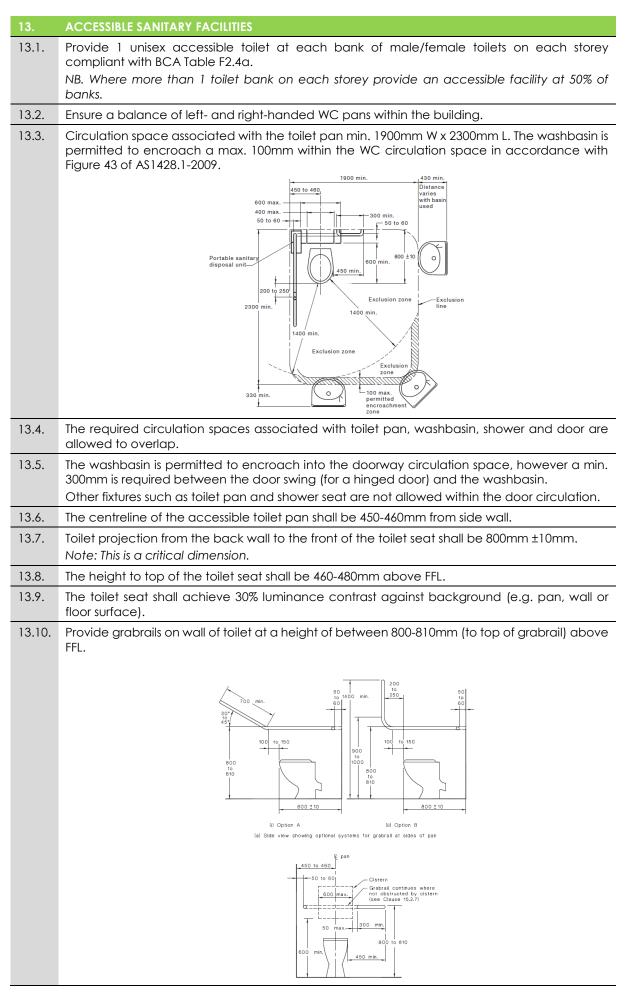
| 11.   | SWIMMING POOLS   |
|-------|--|
| 11.1. | Access is required to and into swimming pools with a total perimeter greater than 40m, associated with a Class 1b, 2, 3, 5, 6, 7, 8, or 9 building that is required to be accessible, but not swimming pools for the exclusive use of occupants of 1b building or a sole-occupancy unit in a Class 2 or Class 3 building.                                    |
|       | Accessible entry/exit in accordance with Part D5 of the BCA is required.   |
| 11.2. | <ul> <li>An accessible entry/exit must be by means of:</li> <li>(i) a fixed or movable ramp and an aquatic wheelchair; or</li> <li>(ii) a zero depth entry at a maximum gradient of 1:14 and an aquatic wheelchair; or</li> <li>(iii) a platform swimming pool lift and an aquatic wheelchair; or</li> <li>(iv) a sling-style swimming pool lift.</li> </ul> |
| 11.3. | Where a swimming pool has a perimeter of more than 70 m in length, at least one accessible water entry/exit must be provided by a means specified above (16.2) (a), (b) or (c).  |
| 11.4. | Latching devices on gates and doors forming part of a swimming pool safety barrier need not comply with AS 1428.1-2009.  |

| 12.   | PASSENGER LIFTS  |
|-------|--|
| 12.1. | All passenger lifts are required to be of a type in accordance with BCA Table E3.6a, have accessible features in accordance with BCA Table E3.6b and shall not rely on a constant pressure device for operation if the lift car is fully enclosed. |
| 12.2. | Passenger lifts travelling more than 12m require 1400mm W x 1600mm L min. dimensions.  |

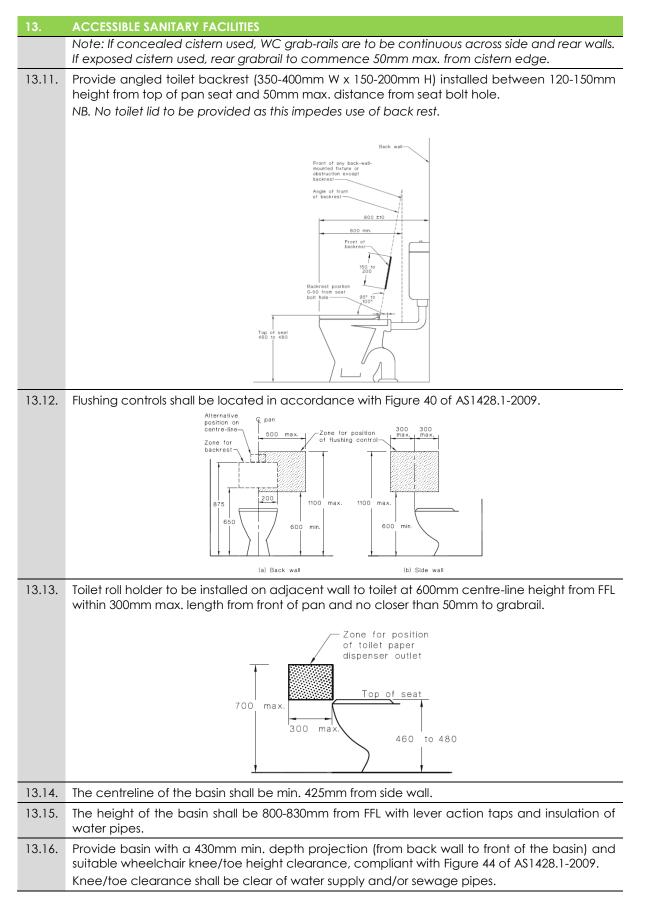


| 12.    | PASSENGER LIFTS  |
|--------|--|
|        | Note: a concession is available for existing lifts in existing building, subject to the requirements of the Disability (Access to Premises – Buildings) Standards 2010.  |
| 12.3.  | Passenger lifts travelling less than 12m (except stair platform lifts) require 1100mm W x 1400mm L min. dimensions.  |
| 12.4.  | Stairway platform lifts (previous AS1735.7) require 810mm W x 1200mm L min. dimensions, compliant with BCA Part E3.6.  |
|        | Note: the use of stairway platform lifts is subject to a case-by-case assessment.  |
| 12.5.  | Low-rise platform lifts (previous A\$1735.14), require 1100mm W x 1400mm L min. dimensions compliant with BCA Part E3.6 and must not travel more than 1000mm height variation.   |
| 12.6.  | Low rise, low speed constant pressure lifts, unenclosed type (previous A\$1735.15), require 1100mm W x 1400mm L min. dimensions compliant with BCA Part E3.6 and must not travel more than 2m. They cannot be used high traffic public areas.    |
| 12.7.  | Low rise, low speed constant pressure lifts, enclosed type (previous A\$1735.15), require 1100mm x 1400mm min. dimensions compliant with BCA Part E3.6 and must not travel more than 4m. They cannot be used high traffic public areas.          |
| 12.8.  | Any low-rise lifts (previous part A\$1735.14 or 15) that require constant pressure to be applied to the lift control buttons to either call and/or operate the lift (i.e. Press and Hold) are to include signage to explain operations of use.   |
| 12.9.  | Small size low-speed automatic lifts (previous AS1735.16), require 1100mm W x 1400mm L min. dimensions and must not travel more than 12m.  |
| 12.10. | Ensure all passenger lifts (except stair platform lifts) have 900mm min. clear door opening, compliant with A\$1735.12.  |
| 12.11. | Ensure all Low-rise platform and Low rise, low speed constant pressure lifts with manual door opening (previous A\$1735.14, 15 and 16) have suitable door circulation areas compliant with A\$1428.1.  |
| 12.12. | Ensure the centre line of standard lift call buttons in all lift lobbies are located at height of 900-<br>1200mm and at least 500mm distance from an internal corner to be accessible to people using<br>wheelchairs, compliant with A\$1735.12. |
| 12.13. | Ensure all passenger lifts (except stair platform and low-rise platform lifts) include an internal lift control panel with centre line of control buttons located at a height no less than 700mm and no greater than 1250mm above FFL.           |
|        | The components of the floor level buttons shall possess Braille, raised tactile symbols and numbers, visual and auditory indicators, compliant with A\$1735.12.  |
|        | Advisory note: horizontal lift control panels are preferred over vertical panels for ease of reach as they generally can be positioned with control buttons within 900-1100mm FFL which is the preferred range for most wheelchair users.        |
| 12.14. | Ensure all passenger lifts (except stair platform and low-rise platform lifts) include 2 x lift control panels when the width/length dimension is less than 1400mm.  |
| 12.15. | Ensure all passenger lifts (except stair platform and low-rise platform lifts) include an internal handrail installed at a height 850-950mm. The handrail ends shall be no more than 500mm away from any operating device or button.             |
| 12.16. | Ensure all passenger lifts (except stair platform lifts) include emergency hands free communication, including a button to alert call centre of a problem and a signal light to confirm that call has been received.                             |
| 12.17. | Ensure all lifts serving more than 2 levels provides automatic audible information within the lift car to identify each level the lift stops.  |
| 12.18. | Ensure all lifts serving more than 2 levels provides appropriate visual and audible arrival signals of the lift car in all lift lobbies.   |
| 12.19. | Ensure all lifts serving more than 2 levels provides appropriate audible range and frequency, (between 20-80dbA at maximum frequency of 1500 Hz).  |
| 12.20. | The lighting in all enclosed lift cars must be at least 100 lux.   |
| 12.21. | All visible information to provide 30% min. Iuminance contrast to background surface.  |

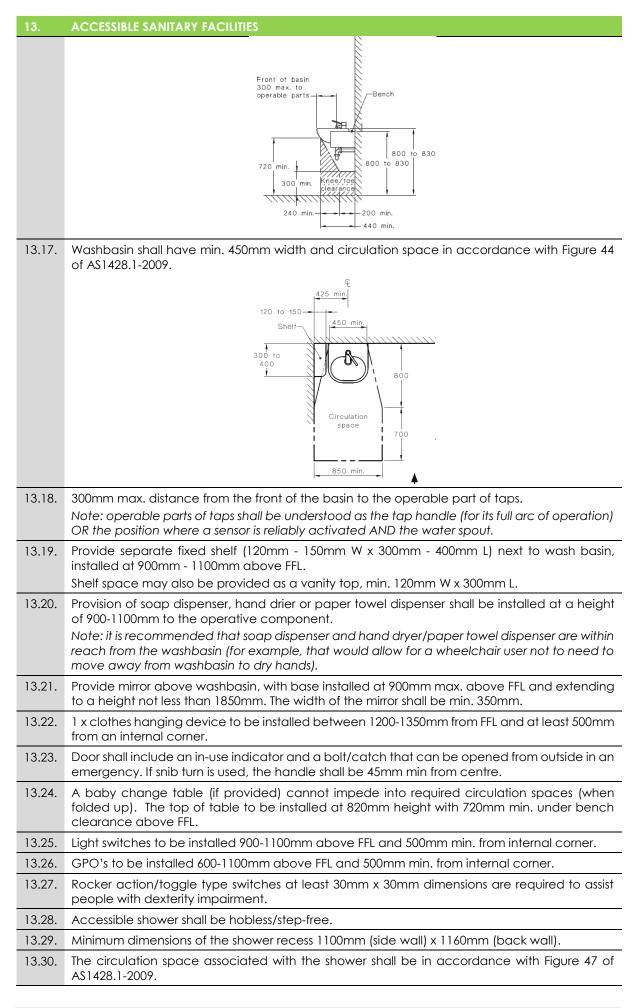






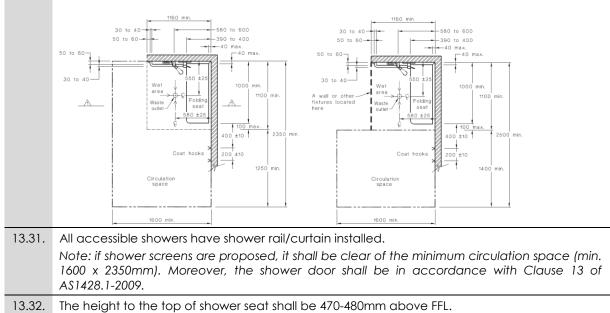








#### 13. ACCESSIBLE SANITARY FACILITIES



| 13.33. | Provide a horizontal grab rail (660mm min), to be placed beneath the vertical shower support rail, between 390-400mm from side wall (leading edge of grabrail aligned with end of shower seat), installed 800-810mm height from FFL. |
|--------|--|
|        |  |

- 13.34. Provide vertical shower support rail to start between 1000-1100mm from FFL. The top of the shower support rail to finish between 1880-1900mm FFL. The rail to be placed between 580-600mm from the side wall.
- 13.35. Ensure the shower taps and soap holders to be placed between 900mm 1100mm from FFL. The shower taps and soap holders shall be 300-800mm from side wall and there shall be 50mm clear from the vertical support grabrail.
- 13.36. Hand-held shower head required, with flexible hose min. 1500mm in length.
- 13.37. The height of the hose wall outlet to be 700±5mm height above FFL to ensure suitable hose length when showering. A suitable back-flow prevention device shall be provided.
- 13.38. Provide 2 x clothes hanging devices required outside the shower recess. First hook shall be 400mm from the edge of the toilet seat and the second hook shall be 600mm from the edge of the seat, installed between 1200-1350mm from FFL.

| 14.    | AMBULANT SANITARY FACILITIES  |
|--------|---|
| 14.1.  | Ambulant facilities for males and females shall be provided at each bank of toilets where there are one or more toilets in addition to an accessible WC.  |
| 14.2.  | Minimum 900mm x 900mm circulation area shall be provided between successive door swings in airlocks/vestibules on path of travel leading to ambulant toilets.   |
| 14.3.  | Minimum 900mm x 900mm circulation area shall be provided outside the ambulant cubicles.   |
| 14.4.  | The cubicle shall be between 900mm - 920mm clear width with WC pan centred (i.e. 450-460mm set out).  |
| 14.5.  | The cubicle door shall have a min. 700mm clear opening width.   |
| 14.6.  | 900mm x 900mm clear area shall be provided in front of WC pan and clear of door swing.  |
| 14.7.  | Projection of WC (distance from back wall to the front of the seat) shall be 610-660mm.   |
| 14.8.  | Height to top of pan seat shall be 460-480mm above FFL.   |
| 14.9.  | Ambulant cubicle door shall be provided with in-use indicator and bolt/catch that is able to be opened from outside (in emergency). If snib catch used, the handle shall be 45mm min. length from centre. |
| 14.10. | Grabrails provided on both sides of cubicle at 800mm - 810mm height (to top of grabrail) from FFL.  |
|        | Refer to Figure 53 (A) of AS1428.1-2009 for further guidance.   |



| 14.    | AMBULANT SANITARY FACILITIES   |
|--------|--|
|        | 400 to 450<br>400 to 450<br>400 to 450<br>400 to 450<br>400 to 450<br>400 to 450<br>400 to 450<br>20 for<br>10 max<br>100 max<br>10 |
|        | Circulation space-<br>door max not include   |
| 14.11. | Toilet roll holder to be placed at 700mm max. height from FFL and 300mm max. distance from front of pan on adjacent wall, no closer than 50mm to grabrails.  |
| 14.12. | Clothes hook to be installed between 1350mm - 1500mm from FFL.   |

| 15.   | GRABRAILS   |
|-------|---|
| 15.1. | Grabrails shall have 30-40mm outside diameter.  |
| 15.2. | Grabrails shall be installed 800-810mm height to the top of grabrail.                                       |
| 15.3. | Grabrails shall be able to withstand a force of 1100N applied at any position and in any direction.         |
| 15.4. | The clearance between the face of the grabrail and the wall shall be 50-60mm (finger/knuckle clearance).    |
| 15.5. | 270-degree clear arc around top of handrail required (extending for 600mm min. height above the grabrails). |



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