Section 2.00 Planning & Design Controls

2.10 Space Guidelines

Replace existing table titled Office Space with the following:

<table>
<thead>
<tr>
<th>Occupant</th>
<th>GU Standard m2 UFA#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice-Chancellor</td>
<td>20 - 28</td>
</tr>
<tr>
<td>Senior Executive Staff (DVC, PVC)</td>
<td>16 - 20</td>
</tr>
<tr>
<td>Dean, Director</td>
<td>14 - 16</td>
</tr>
<tr>
<td>Head of School</td>
<td>12 - 14</td>
</tr>
<tr>
<td>Academic Staff Levels B to E</td>
<td>10 - 12</td>
</tr>
<tr>
<td>(Professor, Associate Professor, Principal or Srn. Lecturer,</td>
<td></td>
</tr>
<tr>
<td>Principal or Senior Research Fellow, Lecturer Level B)</td>
<td></td>
</tr>
<tr>
<td>Academic Staff Level A</td>
<td>2 per 12m² Office or 8m² in open plan</td>
</tr>
<tr>
<td>Research Assistants, Research Fellows 1 &amp; 2</td>
<td>2 per 12m² Office or 8m² in open plan</td>
</tr>
<tr>
<td>Administrative Senior Staff</td>
<td>10 - 12</td>
</tr>
<tr>
<td>(Deputy Deans, Deputy Directors, Associate Directors, Senior</td>
<td></td>
</tr>
<tr>
<td>Managers)</td>
<td></td>
</tr>
<tr>
<td>Administrative Staff (All Levels)</td>
<td>8 – 10m² Office (only if required for confidentiality)</td>
</tr>
<tr>
<td>Post Graduate, Research Higher Degree student</td>
<td>6 –8m² in open plan</td>
</tr>
<tr>
<td>Coursework Higher Degree Student ** refer to Notes at the end</td>
<td></td>
</tr>
<tr>
<td>of this table</td>
<td>4m² per student in open plan (time shared workstation)</td>
</tr>
<tr>
<td>Academic Visitors</td>
<td>To use offices of staff on OSPRO or a bookable hot desk</td>
</tr>
<tr>
<td>Adjuncts, Honorary or Emeritus status</td>
<td>Nil. To be accommodated within Group Space Portfolio</td>
</tr>
</tbody>
</table>

Section 4.00 Project Preliminaries

4.16 Existing Site Data

Insert the following paragraph;

The University maintains a register of the Asbestos Containing Materials (ACMs) identified in all its existing buildings. The University cannot guarantee that all such materials have been identified in buildings constructed prior to 2004, as they may be concealed in ceiling spaces, behind wall linings, under floor coverings or in plant and equipment items. Prior to undertaking any demolition or refurbishment works in an existing building constructed prior to 2004, the Contractor shall inspect the defined works area and undertake reasonable investigations, including minor demolition, to confirm the information contained in the Asbestos Register and to identify the presence of any other ACMs not registered. If any unregistered ACMs, or potential ACMs are identified, then the Contractor shall immediately advise the Superintendent who will direct the Contractor as to what measures shall be undertaken to deal with the materials in question including arranging for any testing to confirm the presence of asbestos.
Section 6.00 Staircases & Ramps

6.03 External Stairs and Ramps

Delete first paragraph.

6.06 Tactile Ground Surface Indicators (TGSIs)

Change heading to above and delete existing paragraph and replace with the following:

Provide warning type TGSIs in accordance with the National Construction Code, Australian Standards AS1428.0 & 1428.4.1.

Directional type TGSIs shall be used where dictated by the needs of the specific project. CLF will advise when these indicators are appropriate based on advice from the University’s Access Consultant.

TGSIs shall be selected to suit the particular application taking into account the substrate, appearance, consistency with surrounds, pedestrian/vehicular traffic, standards and code requirements.

The type of TGSI to be used shall be selected from the following list of approved materials, and the selection made must be confirmed with the Superintendent before specifying or installing.

<table>
<thead>
<tr>
<th>TGSI Material</th>
<th>Manufacturer and/or Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cork / rubber composite pads</td>
<td>Safety floor Australia Pty Ltd; Comcork (see note below)</td>
</tr>
<tr>
<td>Rubber pads</td>
<td>CTA Australia; PolyPad</td>
</tr>
<tr>
<td>Ceramic tiles</td>
<td>Australian Building Ceramics; Granito; CTA Australia; Cobble Tac</td>
</tr>
<tr>
<td>Granite/Basalt tiles</td>
<td>J.H. Wagner &amp; Sons</td>
</tr>
<tr>
<td>Concrete paving units</td>
<td>Stone Directions; Urban Stone</td>
</tr>
<tr>
<td>Individual Stainless Steel Studs</td>
<td>Latham Australia; TI Series; CTA Australia; Sure Steel (see note below)</td>
</tr>
</tbody>
</table>

Note: The use of individual stainless steel stud indicators is not permitted except with the written approval of the Superintendent following the receipt of evidence as to the reasons why no other type of TGSi is appropriate or practical. Surface fixed pad type TGSIs will also not be permitted except where other nominated types are not appropriate or practical.

TGSI tiles and pads shall be installed flush with the surrounding surfaces.

The following combination of surface finishes and TGSIs are acceptable;

**Internally - New Buildings**

<table>
<thead>
<tr>
<th>Floor finish</th>
<th>TGSI material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpet tiles</td>
<td>Cork/rubber composite pads or Rubber pads</td>
</tr>
<tr>
<td>Resilient</td>
<td>Cork/rubber composite pads or Rubber pads</td>
</tr>
<tr>
<td>Ceramic tiles</td>
<td>Ceramic tiles</td>
</tr>
<tr>
<td>Stone paving</td>
<td>Granite/basalt tiles</td>
</tr>
<tr>
<td>In situ concrete (no applied finish)</td>
<td>Ceramic tiles</td>
</tr>
</tbody>
</table>

**Internally – Existing buildings**

<table>
<thead>
<tr>
<th>Floor finish</th>
<th>TGSI material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpet tiles</td>
<td>Cork/rubber composite pads or Rubber pads</td>
</tr>
<tr>
<td>Resilient</td>
<td>Cork/rubber composite pads or Rubber pads</td>
</tr>
<tr>
<td>Ceramic/Quarry tiles</td>
<td>Ceramic tiles</td>
</tr>
</tbody>
</table>

**Externally – New stairs & ramps**

<table>
<thead>
<tr>
<th>Material/finish</th>
<th>TGSI material</th>
</tr>
</thead>
<tbody>
<tr>
<td>In situ concrete (broomed or exposed aggregate finish)</td>
<td>Concrete paving units; Granite/basalt tiles</td>
</tr>
<tr>
<td>Stone paving</td>
<td>Granite/basalt tiles</td>
</tr>
</tbody>
</table>
Ceramic tiles

**Exterally – Existing stairs & ramps**

<table>
<thead>
<tr>
<th>Material/finish</th>
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<td>Concrete paving units</td>
<td>Concrete paving units; Granite/basalt tiles</td>
</tr>
<tr>
<td>Ceramic/quarry tiles</td>
<td>Ceramic tiles</td>
</tr>
</tbody>
</table>

---

**Section 7.00 Roofs**

**7.05 Gutters**

**Materials**

*Add the following to the end of the paragraph;*

In corrosive environments such as the Gold Coast campus, gutters shall be fabricated from Type 316 stainless steel.

**7.06 Downpipes**

*Add to end of first paragraph;*

In corrosive environments such as the Gold Coast campus, downpipes shall be fabricated from Type 316 stainless steel.

**8.00 External Walls**

**8.07 Building Signage**

*Delete second paragraph and insert the following;*

Building identification signage shall be in accordance with the requirements of the GU Signage Manual.

**Section 9.00 Windows**

**9.01 Generally**

*Delete the last line of the first paragraph.*

*Delete the last paragraph.*

**9.05 Glazing**

*Amend first paragraph to read;*

All glass to windows in external walls shall be G James Glass TS30 laminated glass or an alternative of equal or greater performance to be approved by the Superintendent. A Thermal Safety Assessment .....  

**9.06 Window Locks**

*Amend Clause to read;*

All openable window sashes shall be fitted with a lock equivalent to Lockwood 780 or 880. All locks shall be keyed alike, and keys shall be handed to the Superintendent only at Practical Completion.
Section 11.00 Doors & Hardware

11.05 Frames

Add the following to the end of the first paragraph;

Frames to doors installed in in-situ concrete walls shall not wrap around the opening reveals.

11.07 Locks

Amend first dot point to read;

- Mechanical locks/latches shall be ‘Dorma ST9600’ or ‘Lockwood 3P70’ dead latching series. All locks ..........

11.08 Door Furniture

Amend first paragraph to read;

Door furniture shall be Lockwood 1800/1900/70 Series’ with SCP finish ............

Section 12.00 Wall Finishes

12.10 Chair Rails

Amend first paragraph to read;

Provide a chair rail 180mm min. high x 20mm thick comprising custom wood with a plastic laminate finish to exposed face, top and bottom edges, .................

Section 13.00 Floor Finishes

Insert the following requirement;

The requirements of this Section are generally Mandatory (Refer to Section 1.00)

13.01 Colours

Add the following paragraphs;

Colours and patterns to carpet and vinyl finishes shall be selected from the nominated manufacturer’s standard product range. No custom patterns will be permitted without the written permission of the Superintendent.

Carpet and vinyl selections shall be submitted to the Superintendent for approval prior finalising the building colour scheme to be presented to Users.

13.02 Carpet Finishes

Delete existing clause and replace with the following;

Carpet finishes shall be used generally throughout all GU buildings.

GU has adopted patterned, tufted loop pile, 100% solution dyed nylon modular carpet tiles as its standard finish.

Carpet tiles shall be classified commercial extra heavy duty/stair, in accordance with the Australian Carpet Classification Scheme (ACCS) and Level 4 (A) in accordance with the Environmental Classification Scheme (ECS).
Carpet tiles shall be selected from the **Ontera**, **InterfaceFLOR** or **Godfrey Hirst** standard range of tiles to meet the following criteria:

- Critical radiant flux values shall be in accordance with the current version of the BCA,
- The total VOC limit shall be 0.5mg/sqm,
- The electrostatic propensity shall be 2500v max. at a relative humidity of 25%,
- 15 year warranty for wear, dimensional stability, electrostatic propensity and chair castor impact.

The carpet finish in individual buildings shall be sourced from a single manufacturer with a maximum of three (3) patterns. Each colour and pattern used shall be from the same manufacturing batch and dye lot, including spare tiles.

Whenever small areas of carpet require replacement in an existing building which is fitted with **Autex** polypropylene sheet or tile carpet finishes, matching carpet shall be installed. If a matching colour cannot be obtained, then a substitute colour, or alternative carpet, will be advised by the Superintendent.

Carpet tiles shall be fully adhered to the substrate with a low VOC (<50g/L) water based acrylic pressure sensitive adhesive approved by the tile manufacturer. Carpet on risers shall be fixed using a double bond system.

Cut tiles shall not be less than half a tile unless absolutely necessary with the prior approval of the Superintendent.

Spare tiles equivalent to 1% of the area installed shall be provided to the Superintendent in sealed cartons labelled **‘Spare Carpet Tiles + Building No. + Date’**. The batch number and dye lot shall be clearly noted on each carton.

**13.03 Vinyl Finishes**

*Amend first paragraph to read;*

Vinyl shall only be used in those areas as noted on the SDFs, and shall be **Tarkett** ‘Emminent’, **Armstrong** ‘Accolade’ or **Polyfloor** ‘Classic Mystique PUR’. All vinyl finishes in an individual building shall be sourced from the one manufacturer.

*Insert the following paragraph;*

Lift car floors shall be covered with an approved 3mm thick studded sheet rubber flooring to meet critical radiant flux values in accordance with the current version of the BCA. Flooring shall be adhesive fixed strictly in accordance with the manufacturers recommendations.

**13.07 Door Mats**

*Delete the existing clause and replace with the following;*

Provide internal ‘door mats’ to carpeted areas at external entry doors. Mats shall be selected Ontera ‘W.O.M.B.A.T’ or InterfaceFLOR ‘Entry Level’ carpet tiles, laid in full tile modules to suit width of door x three (3) tiles deep.

Provide similar mats where the internal entry finish is ceramic tiles, stone paving or other hard finish. Provide a brass or stainless steel angle or strip trim at the junction between the mat and the hard finish.

Recessed mat wells with drainage are not required.

*Insert new Clause*

**13.12 Tactile Indicators**

Refer to Section 6.00 Staircases & Ramps Clause 6.06 for details of permitted tactile Ground Surface Indicators (TGSIs)
Section 15.00 Fitments

15.06 Built-in Joinery Generally

*Delete existing last paragraph and replace with the following;*

Where a timber finish is selected for built-in furniture, a graded Tasmanian Oak timber veneer or a Beech melamine finish shall be used. All other built-in cupboards, benches, etc. shall have a durable coloured laminated plastic finish of colours to be approved by the Users. The use of White laminate on bench tops is discouraged.

15.12 Laboratories

*Delete any reference to 'chemical resistant' laminate from all paragraphs and replace with 'selected laminate'.*

Section 17.00 Hydraulic Services

17.04.01 Standard Fixtures

*Amend table of fixtures as follows:*

<table>
<thead>
<tr>
<th>Toilet Pans</th>
<th>'Caroma Concorde Concealed' standard S or P trap pan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toilet Seats</td>
<td>'Caroma Caravelle Commercial' double flap seat, colour to be white only except for accessible toilets which shall be single flap and colour of a minimum luminance contrast of 30% to the pan colour</td>
</tr>
<tr>
<td>Backrest (accessible toilets)</td>
<td>'Caroma Care' backrest unit</td>
</tr>
</tbody>
</table>

17.07.04 Valves

*Add to end of the last paragraph.*

The Contractor shall ensure that all RPZ valves installed on a project are tested and registered with the Local Authority and provide copies of the test and registration certificates to the Superintendent. The Contractor shall also ensure that the RPZ valves are tested just prior to Final Completion and that the test results are submitted to the Superintendent.

Section 18.00 Mechanical Services

18.01.02 Specific Requirements

*Insert the following paragraph;*

**UVC System for Kitchen Hoods** – All kitchen exhaust hoods shall be installed with a water wash system combined with a UVC system similar to the ‘Capture-ray’ technology manufactured by Halton. The UV lights shall be capable of easily maintenance and replacement. Alternative similar technology with equal and proven performance will be acceptable subject to the approval of the CLF Mechanical Engineer.

18.01.09 Plant & Equipment

*Amend fourth paragraph ‘Heater Banks’ to read;*

**Heater Banks** – heater banks shall be electric unless otherwise determined by the requirements of the BCA. Heater banks shall be located generally in plant rooms and shall be clearly identified using ‘Safetyman’ labels. Heater banks shall be of a physical size that gives maximum coverage to allow for
effective heat transfer and to ensure that no air bypasses the heater bank. The HPT for duct heaters shall be generally positioned 250mm downstream from the heater bank. Heaters on fan coil units shall be of the low surface temperature type and sized to the full extent of the air outlet. Heater banks shall be fully balanced over all three phases. HPTs shall be ‘Penn A25’ type only, ‘Klixon’ brand thermostats are not acceptable.

18.03 Exhaust Systems

Insert new sub-clause;

18.03.08 Nederman Arm Extraction Systems

The following requirements are based on the Nederman arm model with pipe size 50mm. For bigger pipe size the air flow data shall be adjusted accordingly.

- The design flow rate of each arm shall be within the range of 50m³/hr to 100m³/hr. The low limit is to ensure effective extraction effect and the high limit to avoid excessive noise generated.
- The minimum flow shall be increased if extraction hoods bigger than the standard mini hood is being used. The selection of the hood type and size shall be discussed with the Users and it must be noted that bigger hoods require much higher suction flow rates to provide the effective capture velocity. In general, the mini hood is considered sufficient for most applications. The use of mixed hood types in a single room is not recommended, as the air flow balance will be extremely difficult to attain.
- Multiple arms in separate rooms may be connected to a common mechanical fan extraction system. Where this occurs, a 100% standby fan shall be provided to enhance reliability of the system. The fans shall be controlled by VSDs with pressure sensors such that when all arms are working, the minimum flow of each arm can be maintained, and when only one arm is working, the flow shall be under the maximum design value. If the above cannot be achieved due to too many arms, then multiple separated extraction systems shall be adopted.
- A motorised zone damper for each room shall be provided to close off the branch duct when the system in the room is not being used. Each arm shall also come with an integrated manual damper, and the Users are to be encouraged to close it when not in use.
- An ON/OFF push button with light indicator shall be provided in the room for the users to activate the system. When the button is pushed ON, the zone damper shall open and the fan shall start. When the button is pushed for OFF, the zone damper shall close and the fan shall stop (note the fan will still run if arms in other rooms on the same system are in use). If the button is ON for a period in excess of 3 hours (this time period shall be adjustable), the room will be switched OFF automatically by the BMS control. The Users have to push it ON again if they wish to continue using the arms.
- The whole extraction system shall be connected to the building BMS system for control and monitoring. The BMS graphics shall include a schematic of the system showing all the fans, zone dampers and push button status.
- For a system where a common exhaust fan services multiple arms in a number of separate rooms, the fan shall be started when the arms in any one of the rooms is being used. To avoid dead flow of the fan in the case where all manual dampers are closed, at least one arm damper in each room shall be locked open permanently to maintain the air path.
- Note that the extraction system shall not be used to maintain any negative pressure requirement of the room such as for PC2 or PC3 labs.
- Please refer to the drawing GSD-601 for the indicative schematic of the extraction system with multiple room application.
- A smoke test to verify the performance of each Nederman arm shall be carried out in addition to the overall system air flow testing and balancing works as specified in other Sections of the DG&P.

Insert new Clause

18.07 HVAC Plant & Equipment Numbering

All HVAC plant and equipment shall be numbered according to the rooms in which they are located or the rooms they are serving. Please see the following examples:
• The FCU in room 1.23 shall be numbered as FCU 1.23. If there are three FCU in the same room they shall be numbered as FCU 1.23a, 1.23b and 1.23c and so on. This shall apply for VAV boxes, fans, fume cupboards, DG cabinets, etc in a room.
• The exhaust fan serving toilet 2.34 shall be numbered EF 2.34 even if it is located in a roof level plant room remote from the toilet space. If the fan is serving more than one toilet, then use the smallest number.
• An AHU serving more than one room shall use the smallest room number.
• Any other special cases not mentioned here shall be discussed with the GU Engineers.

Prior to construction commencing the design consultant/contractor shall incorporate this numbering system into the drawings, schedules, specification and manuals, which will be subject to comment and approval by the GU Engineers.

Insert new Clause

18.08 Water Meters for Cooling Towers

Water meters of appropriate size shall be provided for water make up pipe and dumping pipe of each cooling tower. Remote reading/monitoring function shall be included in the meters.

Section 20.00 Electrical Services

20.07.12 Telecommunications Equipment Room (TER)

Delete existing sub-clause wording and replace with the following;

All power circuits within the TER shall originate from a dedicated load centre installed within the TER. The poles within the load centre shall be grouped into two sections, Section A (left) and Section B (right) Provision shall be made for a 50% spare pole capacity within each Section. Each Section shall be clearly identified using ‘traffolyte’ type labels as DB.TER.A and DB.TER.B. The power supply to the load centre shall be directly from the building’s Main Switchboard via a separate feed and be capable of being maintained if the supply to the rest of the building is switched off.

Two (2) separate 20A power circuits, one from each Section (A left and B right) and from matching and corresponding pole positions on the board shall feed each cabinet via overhead chain suspended pendant outlets complete with locking plug retainer (Clipsal 250V, 20A, 56CSC320 – 3 Round Pins).

The load centre shall be fitted with transient overvoltage protectors as described later in this Section.

In cases where a UPS is required, the wiring of the load centre shall allow continuous power supply to the TER via a bypass switch when the UPS is undergoing maintenance.

Lighting circuits within the TER shall be fed from a distribution board outside of the TER.

The room shall also have one (1) dual outlet GPO mounted 800mm above f.f.l., on a separate circuit to that used for the equipment racks. This GPO shall have a red rocker switch and face plate, and labelled ‘Telecommunication Equipment Only’.

The design of the electrical wiring within the TER shall be carried out in close consultation with ICTS and CLF.

All racks and cable trays shall be earthed as per Section 4.5 of the Telecommunication Standard HB29 2007.
Section 21.00 Communication & Data Services

21.03.03 Other Requirements

Redundant Cabling -

*Amend last dot point to read;*

- Existing labelling of redundant outlets shall be blanked out on the patch panel end to show that the previous cabling is no longer existent

21.05.08 Installation Practices

General -

*Amend second paragraph to read;*

A 1RU patch 5-ring patch cord minder TE Connectivity ADC Krone (64501 050-30) shall manage two RJ45 patch panels.

*Insert the following new paragraph between existing third and fourth paragraphs;*

Within a rack, cabling to each patch panel shall be run in an alternating pattern on both sides to spread out cable congestion.

21.08.01 Materials

Equipment Cabinets -

*Amend second dot point to read;*

- Supplied with a horizontal PDU with 10 x 10A (IEC C13) and 2 x 16A (IEC C19) with a 20A round pin captive plug (Clipsal 250V 20A 56P320 – 3 round pins) input (unless otherwise specified by an NCS representative).

*Amend fifth dot point to read;*

- Complete with 300mm wide vertical cable ladders on both sides 2RU from the back of the cabinet ....................

Wall Mounted Cabinets –

*Amend first dot point to read;*

- A MFB 700mm wall mounting cabinet with swing frame, 12RU and a minimum 855mm deep.

21.10.04 Campus Subsystem

*Amend table at end of Clause as follows;*

| White/Green | For Fire Alarms, ADSL lines |

21.12 Building Control Systems

*Existing paragraph with dot points to become new sub-clause 21.12.01 Generally*
Add the following new sub-clause;

21.12.02 Early Data Network Provisioning for BCS

The Project Construction Program shall take account of the following requirements to enable early provisioning of the data network to activate the BMS for commissioning of building services;

- Relevant data outlets shall be identified and both cabling and outlets shall be tested
- Outlets must be identified at the field end and at the TER patch panel end. NCS is to be provided with a schedule of the outlet numbers
- The TER room shall be secure, safe and with a stable electrical power supply, lighting and ventilation
- The Building/Campus fibre link must be installed and tested
- The MAC address of the BMS equipment is to be plugged into the outlet/network
- The IP address for the BMS outlet is to be obtained from NCS
- Reasonable notice (minimum 10 working days) is required to allow NCS/ICTS activities to be completed before activating the BMS network in the building
- All test results for cables and outlets are to be provided to NCS

21.13 Wireless Networks

Delete existing clause and substitute the following;

A single data outlet for each wireless access point (WAP) is to be provided where access to Wireless Networks is required as a standard feature in, but not limited to, the following rooms;

- All Libraries
- Lecture Theatres
- Learning Centres
- Collaboration Zones
- Seminar/Tutorial Rooms
- Meeting Rooms
- Board Rooms
- Teaching Laboratories
- RHD/PG Student Rooms
- Common Rooms (Staff & Student)

This is a requirement in all new building and refurbishments, but does not replace the need for fixed cable data connections to the network in other spaces. The location of all such data outlets must be approved by ICTS.

Wherever possible, the WAP shall be installed above the ceiling at a height not exceeding 3 metres above finished floor level (f.f.l.) to enable easy access for maintenance using a standard platform ladder and to prevent unauthorised access by members of the general public. Generally the WAP shall be located over the entry door/s to the space it is covering. In spaces where the floor to ceiling height is greater than 3 metres, the WAP may be fixed below the ceiling but not at a height that is less than 3 metres above f.f.l.

Generally WAPs shall be wall mounted, but where this not practical, fixing to columns, cable trays or the slab soffit is acceptable as long as it does not require the removal of more than one ceiling tile to gain access.

WAP brackets will be supplied by GU however the Contractor is responsible to fix them, but only in locations which have been approved by ICTS.

Mounting Brackets – WAP mounting brackets are to be securely fixed and correctly aligned close to the WAP data outlet. Ensure that there is adequate clearance between the WAP and the slab soffit, ductwork, cable trays and the like to allow for the wireless device to be easily slid in and out of the mounting bracket.

External Mounting – WAP devices installed externally of buildings in exposed locations shall be mounted in an IP55 watertight enclosure (equal to Code GR17016) with minimum internal dimensions
of 310mm L x 240mm W x 100mm H. The mounting bracket and data outlet shall also be contained within the enclosure and positioned to ensure that the device can be easily installed and removed if required for maintenance.

**Access to WAPs in Ceiling Spaces** – Where the WAP device and bracket is located above a ceiling, it must be mounted within arm’s length of a removable ceiling tile (T bar grid ceiling) or an access panel (flush ceiling). Access panels in flush ceilings shall not be less than 450 x 450mm square and shall open downward and be fitted with a simple Allen key locking mechanism.

### 21.14 Particular Telecommunications & Data Requirements – Teaching Spaces

*Insert the following paragraph;*

The following communications and data requirements for Teaching Spaces are outlined in the following Clauses unless directed otherwise by CLF/NCS.

#### Section 22.00 Security Services

**22.01 Generally**

*Amend last paragraph to read;*

......available on the CLF website at www.griffith.edu.au/campus-development/design-guidelines ..........

**22.02 Electronic Access control System (EAC)**

*Amend second paragraph to read;*

..........connected to and controlled by the Gallagher CCFT Server located at the Nathan campus via FT6000-8R controllers .............

*Amend third paragraph to read;*

All FT6000-8R controllers installed ...............

**Clause 22.03.01 Generally**

*Add the following to the end of the second paragraph;*

An IP solution ONSSI has also been approved.

#### Section 23.00 Lifts

**23.02 Lift Dimensions**

*Amend second sentence of the Clause to read;*

Minimum internal dimensions shall be 1400mm wide x 2100mm deep............

**23.03 Type of Lift**

*Amend first paragraph to read;*

Either machine room-less (MRL) traction or electro-hydraulic lifts are acceptable to GU. Electro-hydraulic lifts should only be specified where an equivalent MRL traction lift is not available.

*Add the following paragraph;*

Acceptable lift manufacturers are as follows;

- Kone Elevators
Section 24.00 Landscaping

Clause 24.13 Paving & Footpaths

Amend second dot point in fourth paragraph to read:

- Clay or Concrete Paving Units (including quarry tiles) – Where existing unit paved areas are to be extended or modified, paving units shall be to match existing. If no matching paving units are available, then consideration shall be given to removing all existing paving units and replacing with an alternative approved by the Superintendent. Refer to Section 6.00 Staircases & Ramps Clause 6.06 for details of permitted tactile indicators in existing paving.

Add the following dot point to the fourth paragraph:

- Stone Paving – GU has selected Australian granite as its preferred unit paving for all campuses. The selected stone is ‘Austral Juparana’ in 605 x 300 x 20mm thick units as the main base colour, with ‘Austral Coffee’ in 148 x 148 x 20mm thick units for the contrast features. Examples of the use of this paving can viewed at the Nathan campus in the Campus Heart Plaza and along the Johnson Path pedestrian spine. Black granite/basalt warning and directional tactile pavers 300 x 300 x 25mm thick shall be used in conjunction with all stone paving. The nosing to step treads shall be black in 75 x 20 x 300mm long units with the front edge bevelled to 10mm high to satisfy Code requirements. Pavers on step risers shall have a bevelled top edge to fit the nosing. All paving units, tactile pavers, nosing units and step risers are available from J.H. Wagner & Sons.

Where stone paving is subject to heavy vehicular traffic, the thickness shall be increased to 30mm.

Amend fifth paragraph to read:

All paving units shall be laid on a reinforced concrete base slab. The thickness of base slabs shall be shall be 100mm min. thick for pedestrian traffic and 150mm. Min thick for vehicular traffic areas.

24.17 Landscape Furniture

Add the following paragraph:

Furniture on the Nathan campus shall be in accordance with the Furniture Catalogue developed from the Nathan Master Plan. This catalogue is available from the CLF Principal Architect, who shall be consulted on the type and colours of furniture items to be incorporated into the Landscape design.

24.20 External Signage

Add new Clause;

All external signage shall be in accordance with the GU Signage Manual. The CLF Principal Architect shall be consulted on the type and location of all signage units.

Section 27.00 Post Construction Responsibilities of Consultants & Contractors

27.02 Preventative & Statutory Maintenance

Insert new paragraph after first paragraph;

At least one month prior to achieving Practical Completion, the Contractor shall prepare and provide a Program to the Superintendent which indicates all Preventative and Statutory Maintenance work to be
undertaken during the Defects Liability period including nominating the company/person who will undertake the maintenance work and the time frame (month/year) on which it will be carried out.

Section 33.00 Conditions of Tendering & Conditions of Contract for Lump Sum Contracts

GU Amending Conditions of Contract Modifying AS 2124 – 1992

Clause 2 INTERPRETATION

*Insert the following definition;*

“Adjusted Contract Sum” means the Contract Sum adjusted to include all agreed Variations pursuant to Clause 40

Annexure Part ‘A’

*Amend item Retention Moneys on (Clause 42.3):*

(a) Work incorporated in the Works and any work items for which a different amount of retention is not provided, 10% of the value until 5% of the Adjusted Contract Sum is held;