



Goulburn Hospital Redevelopment

SSDA Architectural Design Summary



25th September 2017

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1.0 Built Form

The Goulburn Base Hospital is ideally located central to Goulburn's city CBD and has occupied the same site for over 100 years since it was established in 1833. The current facilities consist of a wide range of building types, styles and sizes with earliest buildings dating from 1881.

The main hospital building occupies the North-West quadrant of the site with heritage buildings facing Goldsmith Street. A three-story tower building built in the early sixties is the main acute building, with connection to other, mostly single-story buildings via ramps and open walkways. The 20 bed sub-acute building, partial refurbishment of the operating theatres and additional mental health beds has been completed in the last 2 years. An on-grade helipad is located within the South West corner of the site.

With the exception of the new sub-acute facility & a number of the asset & support services buildings, the majority of the existing buildings are predominantly of masonry &/or concrete construction.

The main hospital site, including expanded car park zones, occupies an area of approximately 3.879 hectares. The existing hospital facility has a combined floor area of approximately 11,275m² (excluding Accommodation, Community Health, Ancillary Buildings, Chisholm Ross).

1.1 Existing Building Adaptability

The Functional Assessment of all existing facilities had noted that the majority of buildings on-site were in reasonable to good condition and were suitable for retention and/or redevelopment. With the newly constructed/ refurbished buildings not requiring any work included:

- Sub-Acute 20 bed ward
- Chisholm Ross Centre
- Power & Generator Room
- Theatres

Note: The above assessment does not account for latest mechanical services advice that the current theatres will require a substantial upgrade to the mechanical services if facility was to be retained as currently functions.

1.2 Heritage

Goulburn Base Hospital is significant locally for the late Victorian style of its central building and pavilions, erected in 1887. The building was designed by the noted Goulburn architect, E.C. Manfred. The original core of the hospital is a listed item under the local heritage inventory. It is not an item of state or national significance.

The site is within Councils Heritage precinct and general conservation area. The hospital is identified as Item 181 on the schedule 5 of the Environmental Heritage Register, in the Local Environment Plan. The buildings deemed to have Local Heritage importance include:

- Entry loop forecourt, including the 2 significant mature trees,
- Main 2 storey brick building currently service as an admin/library,
- 2 storey brick building currently serving as infection control/offices,
- Front east to west corridor.

Heritage building retention, of which the sandstone and brick late Victorian period structure addressing Goldsmith Street is of most significance and is of historic merit within the local community. Retention and integration of this building would ensure richness of architectural character on the hospital site.

Perumal Murphy Alessi Heritage Consultants prepared heritage report for the Goulburn base Hospital site. The report identifies that the original E.C. Manfred designed hospital administration building, including associated annexes & connections are of significant heritage interest.

1.3 Design Principles

The design principles that are set out in the Functional Design Brief for the Goulburn Hospital Redevelopment Project and provided guidance for the architectural design are,

- Access
- Acoustics
- Building Character
- Building Innovation
- Commercial Spaces
- Evidence Based Design
- Functionality and Organisation of Space
- Interior Design
- Landscape Design Principles
- Modularity, Adaptability and Future Flexibility
- Office Accommodation
- Patient Centred Environment
- Patient, Staff, Service and Operational Flows
- Queuing and Wayfinding
- Specific Design Principles
- Standardisation
- Sustainable Design Principles

1.4 Architectural Intent

The overarching architectural intent is to provide quality rural healthcare for the Goulburn community which fosters patient centric care through evidence based design. The ambulatory model of care and its service to the local community imbues a sense of movement, procession and rehabilitation.

The architectural response draws upon architectural history, evidence based design knowledge and future healthcare practices in creating a building to serve the community of Goulburn for their future population needs.

1.5 Siting

The new acute building within the Goulburn Hospital campus is located on the site of the existing Community Mental Health building and Lady Grouse House. The proposed site is located within the acute clinical zone of the hospital and is positioned to the east of the existing main hospital buildings.

The proposed acute care building is set well back from the main street frontage of Goldsmith Street in order to provide a new entrance forecourt and drop-off areas whilst considering the heritage sensitivity of the original EC Manfred building.

1.6 Form and Height

The proposed building height and form relate to existing the existing buildings and has been developed in line with the endorsed Business Case with the clinical planning requirements driving the resultant building massing.

Through analysis of the existing building positions and circulation in and around existing and proposed buildings, the overall footprint was developed to accommodate associated pedestrian and vehicle movement and provide occupant amenity as the principle strategy.

The over-arching architectural concept is to embody movement, encourage efficiencies in circulation of patients, staff and visitors and visually connect the building occupants as they journey through the building and the surrounding hospital campus.

Height

The Goulburn Mulwaree LEP (2009) prescribes a maximum building height for the hospital site of 8 metres. Existing building development exceeds this height as noted.

Building	Ground Level	Roof Level	Height from Ground
Facility and Nursing Management (Heritage Building)	RL 656.70	RL 669.11	12.41 metres
Tower adjacent to Theatre block	RL 653.30	RL 675.95	22.65 metres

The proposed building is four stories in height with a roof level plant room.

Building	Ground Level	Plant Room Parapet	Height from Ground
Proposed new facility	RL 652.25	RL 674.21	21.96 metres

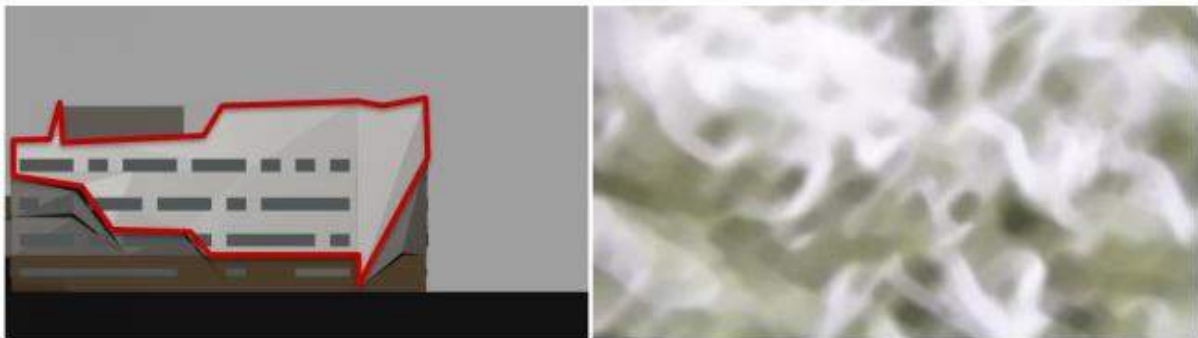
Density, Bulk and Scale

The proposed building, whilst larger than the existing buildings it replaces, is consistent with the varied nature of the current built form of the hospital. The planning arrangement of two linked wings reduces the apparent bulk of the building when viewed from Faithful Street.

The significant setbacks from the adjoining roadways further assist in reducing the visual impact of the development.

Design Quality

Inspiration for the façade has been influenced by two images. The first is a photograph that depicts a landscape view close to Goulburn. The photograph illustrates a large expansive sky of pale, light colouring with texture provided by clouds. The image is anchored by the undulating angular landscape of the typical farming land that can be found in the Goulburn district.



The second photograph is a close-up of sheep wool – an industry synonymous with the Goulburn district. The image shows how a depth of light, shadow and texture can be found within a homogenous material.

The images translate to the elevations by introduction of a base to represent the undulating landscape with a pale, bright expansive top that represents the large skies found in the landscape image.

To emulate the texture and shadow of the wool image the bright top will be clad in angled reflective metal cladding. The cladding will be faceted to provide a play of light, shadow and texture across the façade when struck by sunlight.

The lower levels of the building, and proposed links, will incorporate brick to match the existing heritage buildings and will provide a strong visual connection between new and old.

The public circulation loop at ground level will connect the new acute facility with the existing buildings and will incorporate a distinct architectural language intended to marry the new contemporary style of the building with the heritage expression of the existing buildings

Similarly the landscape design will draw upon the Goulburn districts rich history and cultural past in order to provide the hospital with a design that reflects the environment yet is unique and functional.

Indigenous heritage is a strong point in the design and will draw on the peoples land management principles, connection and relationship to the earth and care of ecosystems.

Safety and Security

Patient, visitor and staff safety is a major consideration of the Goulburn Hospital and has been addressed in detail during the Design phase of the project.

Lighting, Way Finding (Signage) and Closed Circuit Television (CCTV) will be addressed in detail through the Design Development phase to provide the level of security required by the Hospital and to ensure safety of all concerned.

To assist day to day security the hospital facility incorporates a security centre which will be continuously manned with appropriately trained personnel.

Safety and security has further been addressed by development of circulation policies where public access is closely controlled and monitored. Monitoring of the interior and exterior will be provided by an extensive CCTV installation.

Duress alarm systems, fixed and mobile, will be provided.

Site Services

All Hospital deliveries and waste collections, with the exception of bulk oxygen, are off Clifford Street to the dedicated on-site logistics area. Public and staff access to this area is restricted.

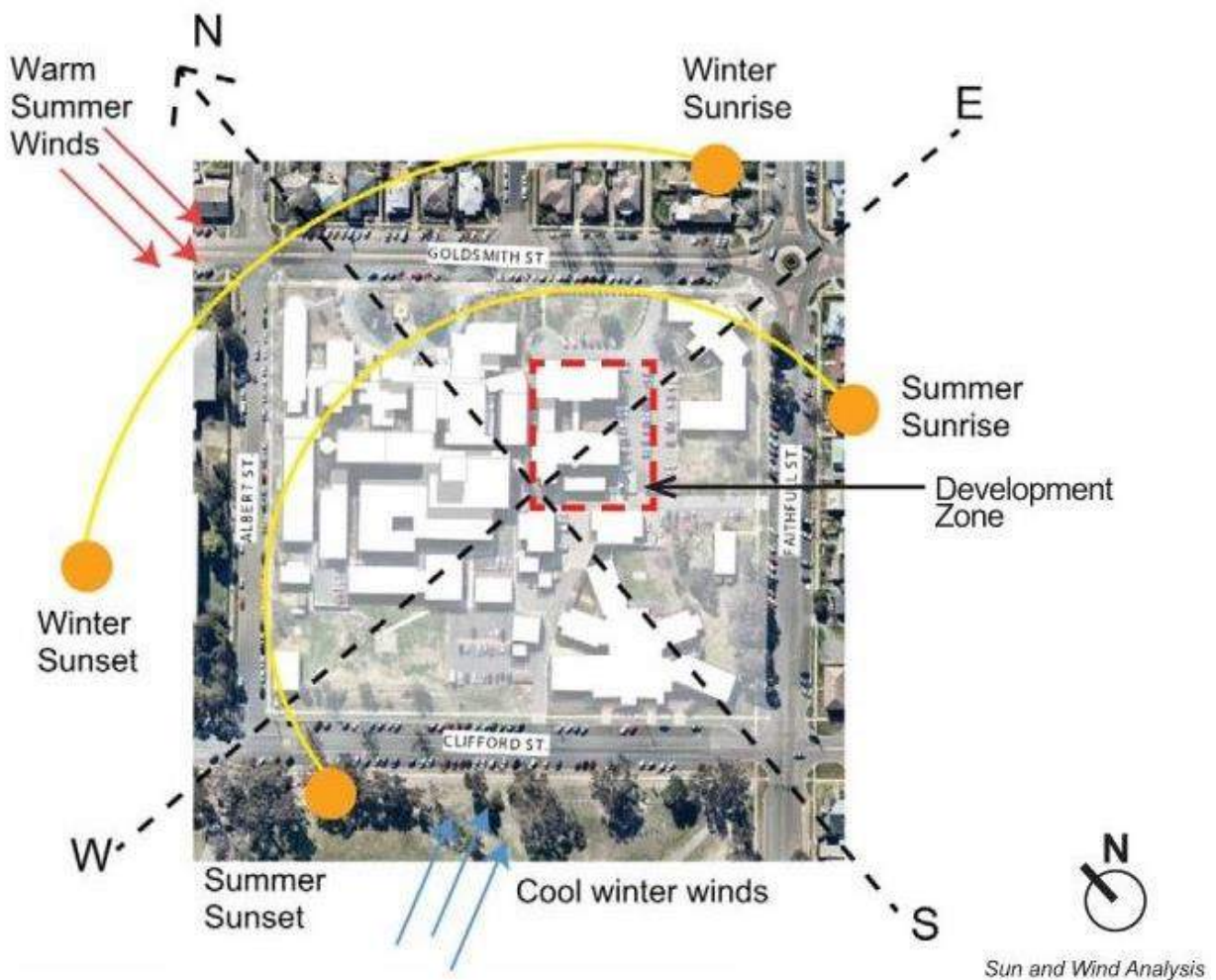
Bulk oxygen deliveries will be via a new “layby” off Faithfull Street co-located with a “services compound” accommodating new water storage tanks and circulating pumps, sprinkler booster valves, electrical substation and generator set.

2.0 Environmental Amenity

The architectural design has considered the external environment and the importance of connecting visually and physically where appropriate and functional building use of the hospital is noted in the previous section.

The demolition of a number of redundant buildings will significantly impact the Goulburn Hospital Campus and improve all aspects of the environmental amenity including visual amenity and acoustic impacts.

2.1 Site Analysis



The Goulburn Base Hospital is located approximately 1 km (10-minute walk) north-east from the town centre with the site is slightly elevated above that of the town centre. The Goulburn town centre is an active commercial precinct whereas the Goulburn Hospital precinct is primarily surrounded by low density residential buildings in the form of single storey bungalows. To the immediate south-west, on Clifford St, is Victoria Park whilst Goulburn High School is located to the north-west, on the other side of Albert Street.

The majority of the Goulburn Hospital development clustered on the northern part of the site bordered by Goldsmith and Albert Streets. These buildings enjoy an ideal aspect and receive an abundance of natural light throughout the day. Setbacks ensure there is no overshadowing of adjoining neighbours.

In the summer months there are warm prevailing winds blowing from the North-West and in the winter months there are cool prevailing winds from the South-West. The building's location, separated from the adjoining residential development should ameliorate any impact on the neighbourhood.

2.2 Proposed Development

The redeveloped hospital will have an reduced environmental impact by virtue of the number of buildings proposed to be demolished and will contribute significantly to improving the amenity of the neighbourhood.

Consolidation of day to day operations and the removal of a number of outdated buildings and redundant structures will result in a clearer more organised site and present a much improved image to the public and the immediate neighbourhood.

Traffic will be better managed with clearly defined routes and destinations.

The location of the new building is well within the site and is located on the site of an existing building (to be demolished). The new building is well setback from all adjoining street frontages.

2.3 Green Spaces & Environment

A large park, Victoria Park, is located directly south of the site consists of a football/cricket oval that is set with in undulating grassed terrain with numerous eucalyptus stands of varying size and maturity.

Within the Goulburn Hospital site, green spaces are present on the north, south and eastern verges of the site. The most notable being green space located to the front of the site. This strip of open space consists of a number of mature trees and palms interspersed amongst lawns, garden beds and asphalt paved car parking and driveways areas. To the south, there is an open lawn area that includes the helipad.

2.4 Acoustic Impact

Refer detailed "Environmental Acoustic Report" prepared by Wood & Grieve Engineers.

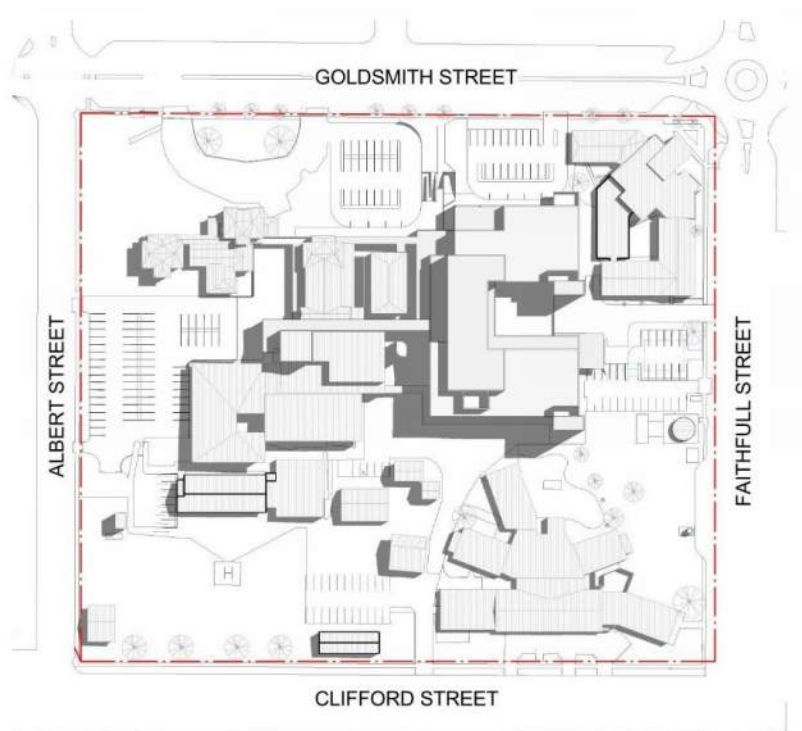
2.5 Solar Access

The following diagrams indicate the impact on the site and surrounding streets by the proposed development in regard to solar access.

Partial shading of part of Faithfull Street will occur during the winter solstice at 3.00pm however the shade will not impact properties on the eastern side of the street.

Sun rise in summer	5.53am
Sun set in summer	8.10pm
Sun rise in winter	7.0am
Sun set in winter	5.08pm

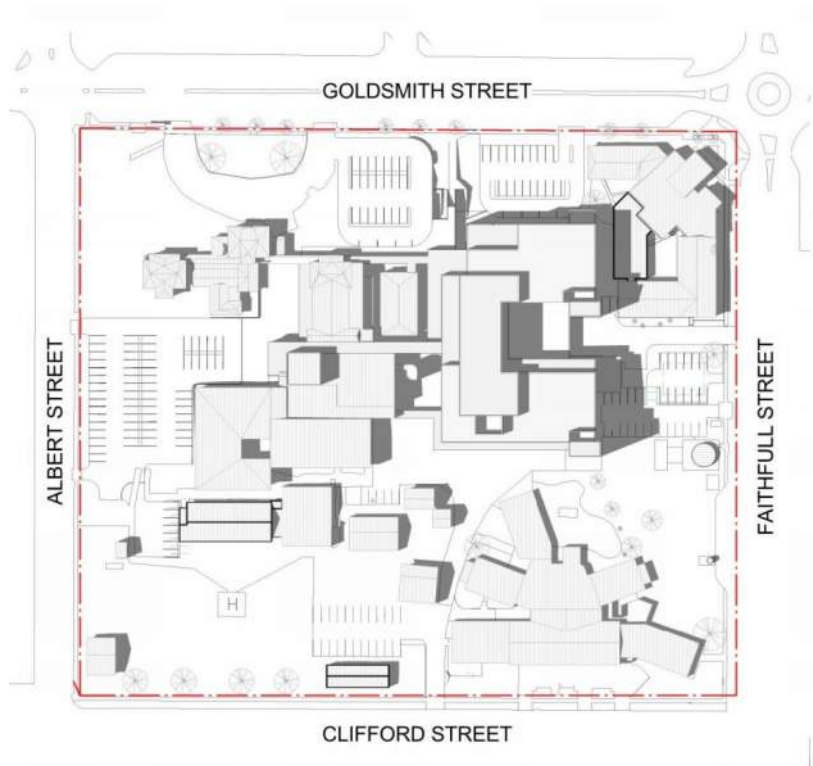
SUMMER SOLSTICE - 9am



SUMMER SOLSTICE - 12pm



SUMMER SOLSTICE - 3pm



WINTER SOLSTICE - 9am



WINTER SOLSTICE - 12pm



WINTER SOLSTICE - 3pm



SPRING EQUINOX - 9am

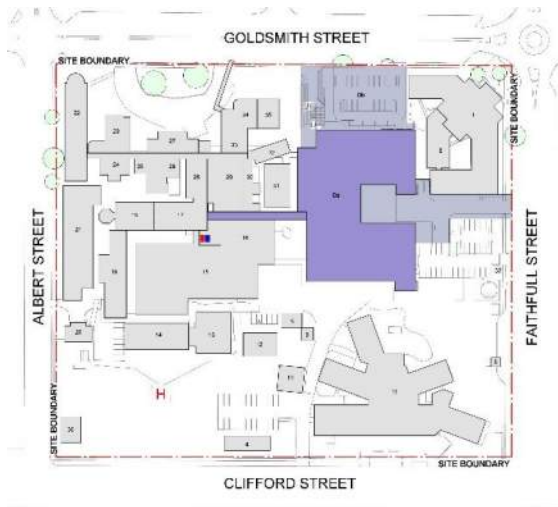


SPRING EQUINOX - 12pm



SPRING EQUINOX - 3pm





PHASE D – NEW BUILT

Da LGF – L2

Db Site works from Faithful Street



PHASE E – RELOCATION & COMMISSIONING

Ea Emergency Department

Imaging

Maternity/Paeds

SARU/GEM

Intensive Care

Perioperative

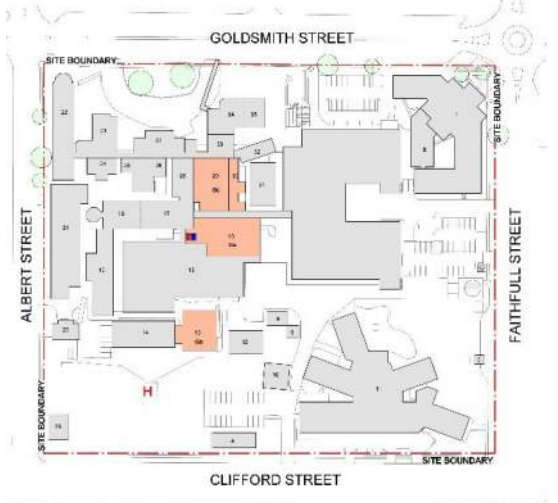
IPU – Medical/Surgical/Palliative

Front of house



PHASE F – REFURBISH/RELOCATIONS

Fa Light Refurb to exist sub – acute
 Physio and specimen Collection relocation
 Ambulatory service coming offsite



PHASE G – REFURBISH

Ga Light refurbishment existing SARU

Gb Refurbish existing Physiotherapy

Gc Refurbish exist Emergency Dept & ICU



PHASE H – RELOCATION

- Ha Oncology coming offsite to exist Physio
- Hb Pharmacy. Cafe/Kiosk Relocate



PHASE I – REFURBISH/RELOCATION

- Ia Refurbish exist Pharmacy
- Ib Relocate Medical Records to Exist Pharmacy



PHASE J – DEMOLITION

- Ja Demolition of existing buildings

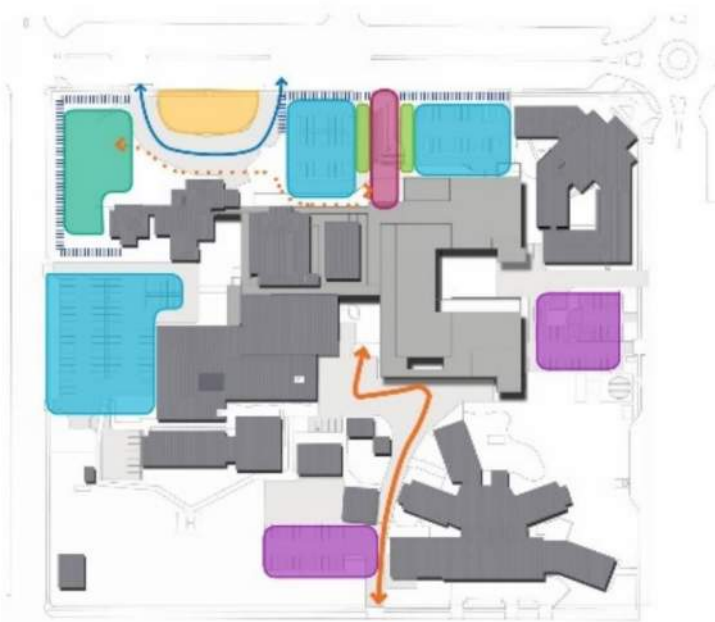


PHASE K – ENTRY / PARKING / LANDSCAPING

- Ka New entry to Albert street entry
- Kb Construct new parking off Albert St.
- Kc Landscaping to Albert St.
- Kd Main entry connection (Goldsmith St.)
- Ke Ground floor Goldsmith St. Parking
- Kf Remainder landscaping to Goldsmith St.

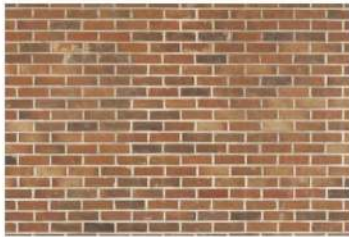
4.0 Landscape

VISION... The landscape design aims to draw upon Goulburn's rich history and cultural past in order to develop a design that reflects its environment yet it also unique and functional. Indigenous heritage in Goulburn is a strong focal point in the design. We draw on their land management principles, connection and relationship to the earth and care for ecosystems.



5.0 Finishes

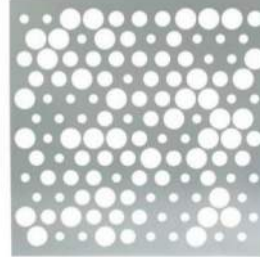
01 OLD COLONIAL FACE BRICK



03 SPARKING WHITE SILVER SPARKING COLOUR FINISHED ALUMINIUM SHEET



06 PERFORATED ALUMINIUM PANEL WITH POWDER COATED CHARCOAL METALLIC



02 TEA COLOUR CURTAIN WALL SYSTEM



04 GALAXY BLUE SPECTRA COLOUR FINISHED ALUMINIUM SHEET



07 WHITE CORRUGATED SHEET



05 ANTHRACITE SILVER GLACTIC SPARKING COLOUR FINISHED ALUMINIUM SHEET



FINISH SCHEDULE			
CODE	ITEM	COLOUR & FINISH	LOCATION
01	OLD COLONIAL FACE BRICK	AMBER GLOW	AT LOWER GROUND FLOOR AND LINK FACADES. LIMITED AMOUNT AT NORTH FACADE ON GROUND FLOOR
02	CURTAIN WALL SYSTEM	TEA COLOUR CURTAIN WALL SYSTEM	WEST FACADE AND EAST FACADE ABOVE THE COURTYARD
03	ALUMINIUM SHEET WITH SPARKING COLOUR FINISH	SPARKING WHITE SILVER	FACADE FACETED CLADDING
04	ALUMINIUM SHEET WITH SPECTRA COLOUR FINISH	SPECTRA GALAXY BLUE	FACADE FACETED CLADDING
05	ALUMINIUM SHEET WITH GALACTIC SPARKLING COLOUR FINISH	ANTHRACITE SILVER	FACADE FACETED CLADDING
06	PERFORATED ALUMINIUM PANEL	POWDER COATED WITH CHARCOAL METALLIC COLOUR FINISH	ENTRANCE CANOPIES
07	CORRUGATED SHEET	WHITE CORRUGATED SHEET	PLANT EXTERNAL FINISH
PF21	Powdercoat Window Mullions & Selected Door's		

6.0 Drawing Schedule

Drawing Number	Drawing Title
01 AA01-0001	Site Plan – Existing Facility
02 AA02-0202	Site Plan – Proposed Facility
03 AA02-2301	Site Analysis Montage
04 AA06-LG01	Precinct Plan – Lower Ground Floor Plan – Proposed Facility
05 AA06-0001	Precinct Plan – Ground Floor Plan – Proposed Facility
06 AA06-0101	Precinct Plan – First Floor Plan – Proposed Facility
07 AA06-0201	Precinct Plan – Second Floor Plan – Proposed Facility
08 AA06-0301	Precinct Plan – Third Floor Plan – Proposed Facility
09 AA06-0401	Precinct Plan – Roof Plan – Proposed Facility
10 AA10-LG01	General Arrangement – Lower Ground Floor Plan – Zone A
11 AA10-LG02	General Arrangement – Lower Ground Floor Plan – Zone B
12 AA10-LG03	General Arrangement – Lower Ground Floor Plan – Zone C
13 AA10-0001	General Arrangement – Ground Floor Plan – Zone A
14 AA10-0002	General Arrangement – Ground Floor Plan – Zone B
15 AA10-0101	General Arrangement – First Floor Plan – Zone A
16 AA10-0201	General Arrangement – Second Floor Plan – Zone A
17 AA10-0301	General Arrangement – Third Floor Plan – Zone A
18 AA10-0401	General Arrangement – Roof Level Plan – Zone A
19 AA07-0001	Elevations – Proposed Facility
20 AA20-0001	Northern Elevation – Proposed
21 AA20 -0101	Southern Elevation – Proposed
22 AA20-0201	Eastern Elevation - Proposed
23 AA20-0301	Western Elevation - Proposed
24 AA08-0001	Sections – Proposed Facility
25 AA30-0001	Section A-A – Proposed Facility
26 AA30-0101	Section B-B – Proposed Facility
27 AA30-0201	Section C-C – Proposed Facility
28 AA30-0301	Section D-D – Proposed Facility
29 AA97-0001	Computer Generated Images
30 AL17-466 200	Landscape – Existing Trees (North)
31 AL17-466 201	Landscape – Existing Trees (South)