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# 01. OVERVIEW

## 1.1 PROJECT BRIEF

Goodman has been selected by NSW Ports as the preferred Development Partner of the Enfield ILC. Goodman are conducting an RFP Process to select an Architect that will be responsible for the design intent and Architectural Documentation of the Estate.

For this Phase of the Design, Goodman require Architectural Concepts for the estate including:

- » Proposed branding and architectural language;
- » Variations in typology, particularly single level and two level offices;
- » Indicative elevations and 3D perspectives of office and warehouse components.

The Preferred design will provide:

- » Fresh new identity
- » Modern aesthetic
- » Transgenerational
- » Economical and cost effective
- » Durable
- » High quality warehouse and office at Goodman development standards
- » Market leading design
- » Differentiate from Goodman Design Brand
- » Compliance with Goodman Base Building Specification and minor adjustments to suit NSW Ports
- » Possible consideration of Green initiatives.

## **1.2 PROJECT STATUS**

NSW Ports is the applicant for the proposed Intermodal Logistics Centre (ILC) at Enfield. The organisation was established in 1995 as the port corporation for Sydney and is responsible for managing commercial shipping and developing port facilities in Botany Bay and Sydney Harbour. The principal roles of NSW Ports are:

- » To manage and develop port facilities and services to cater for existing and future trade needs;
- » To facilitate trade by providing competitive advantage to importers, exporters and the port related supply chain;
- » To manage the navigational and operational safety needs of commercial shipping:
- » To protect the environment;
- » To have regard to the interests of the community; and
- » To deliver profitable business growth to the State Government.

The proposed ILC at Enfield is consistent with the objectives and responsibilities of NSW Ports and represents an important step in achieving its legislated responsibilities as a State-Owned Corporation.

Masterplan Approval has been provided and the Project is now moving into a more detailed phase of design.

## 1.3 SITE DESCRIPTION

Enfield ILC encompasses approximately 31ha of Industrial Development Land at 71 Cosgrove Road, Strathfield South. The site is previously known as the Enfield Marshalling Yards Site, and is located at Strathfield South, in Sydney's inner west, approximately 15klms by road from the Sydney CBD and 18klms by rail from Port Botany. The Site is surrounded by Light Industrial and Low Density Residential uses.

Enfield ILC has an existing masterplan approval in place and has been subject to several modifications (the design intent of the buildings has not significantly changed since initial approval). Architectural documentation approved by Department Planning & Environment (DP&E) is quite broad and are not as detailed as Goodman's submissions to DP&E.

The Site currently comprises:

- » Existing Rail Lines and Slipways
- » Wheel Lathe Area
- » Intermodal Facilities
- » Container Storage
- » OSD Basins
- » Ecological Areas
- » Roadways
- » Road Bridge
- » Noise Barriers

The Site is proposed to maintain the above facilities, and will include:

- » Industrial Warehouses
- » Administrative Offices
- » Car and Bicycle Parking» Landscaping (Hard and Soft)
- » Landscaping (Hard and So» Worker Amenity Facilities
- » Truck Standing and Circulation Hardstand
- » Fences and Secure Gates
- » Entry and Building Markers and Signage

#### And possibly include:

- » Commercial Areas fronting Cosgrove Road
- » Heritage Overlay
- » Community Areas

# 2.0 DESIGN FACTORS

## 2.1 PROGRAMME

As a category of Building Type, an intermodal Warehouse has the following functional requirements:

#### SITE

- » Articulated Vehicle Access and Circulation
- » Vehicle Loading & Unloading
- » Container storage hardstands
- » Staff & Visitor Car Parking
- » Entry Plaza & Signage
- » Fencing and Gates
- » Site Retention and Levelling

#### WAREHOUSE

- » Storage Racking & Access
- » Dock Manager Office
- » Tenant Requirements
- » Landscape and Buffer Zones

#### **OFFICE**

- » Reception & Lobby
- » Meeting Rooms
- » Staff Workstations
- » Staff Support Areas (Print, Kitchenette)
- » Staff Lunch & Lunch Prep
- » Staff Lockers and Change
- » Staff Toilets

#### OPTIONAL ADDITIONAL FUNCTIONS

Additional functions could be contemplated for the Office Component, to improve the value / utility of the lettable area. These additional functions can be designed so that the spaces become multi-functional, either through adaptable operability, or through changing the fitout installation.

- » Product Display
- » Product Launch
- Staff Functions & Events
- » Hot-Desking Areas
- » Outdoor Activities (Ping Pong, Pool, Boule, Exercise)
- » Worker Café / Informal Meeting Zone

## 2.2 INTERACTION

A key relationship for general Warehousing is the relationship between the Office Module and the Warehouse. Typically, the Warehouse Office abuts but is separate to the main Warehouse, with a door connection from the lunchroom and upstairs offices into the lunchroom. Usually, the Warehouse Staff Lunchroom, Change and Toilets sit at Ground Floor, along with the Reception Lobby, and some public or front of house meeting rooms. The upstairs of the Office component is usually workstations, offices and meeting rooms for the Tenant administrative staff. Typically, the Office Component Ground Floor sits at the same floor level as the Warehouse, with doors connecting warehouse staff into the lunchroom and change room areas. Occasionally vision is required from the upstairs office to the warehouse floor.

This typical modality could be described graphically below in Mode 1.

Alternatively, the warehouse/office modality can be interlinked to encourage staff interaction and integration, and improve utility of 'periphery' areas (areas at the edge of the office module). Refer to Mode 2 below.

## 2.3 AMENITY

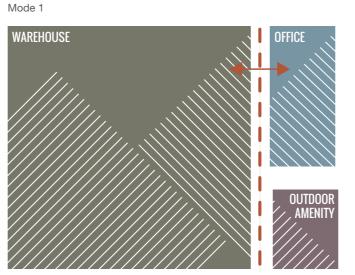
Warehousing Businesses rely on staff retention for improved job knowledge, specialisation and efficiency. Providing a reasonable level of amenity for workers can assist with Worker Retention. As well, site and worker amenity factors could tip the balance between the range of market offerings.

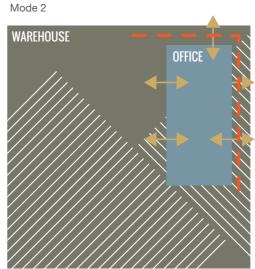
### 2.4 BRAND

A key element of tenant lettability is linking the value of the Tenant Brand with the brand of the development. Businesses want to establish the right functional linkages (a given at the Intermodal site), but also aspire to tie in with reputable precincts and collegiate companies. This kind of cross fertilisation of brand can add value to the precinct.

### 2.5 SITE LEGIBILITY

An intermodal Site such as this requires very clear site signage and tenant identification, if only from a functional point of view of the many service vehicles and personnel finding immediate orientation when arriving at the site through good site legibility. This kind of site legibility needs to be expressed at the site level; a whole of site orientation arrangement that makes sense, requires no explanation to understand and is articulated and supported by the architecture.





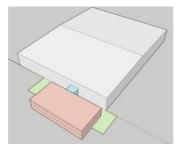
# **3.0 FORM**

## 3.1 WAREHOUSE/OFFICE MODALITY

The relationship between the Office and the Warehouse can be expressed in a range of ways, each with different design outcomes. Often, drivers of these different configurations relate to site planning; simply available space for the office module.

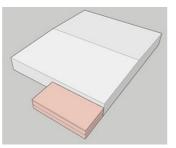
### A/ SEPARATED

In this Mode, the Office Block is wholly separated from the main Warehouse. This provides the opportunity for activated courtyard and interstitial spaces between, as well as an exciting bridge link between the office and the warehouse. However, additional cost is induced to the project because with this option, instead of one common wall between the office and warehouse, of fairly simple construction, there is instead two external walls, the bridging or connecting element and the hardscape between which are more or less additional cost to the project.



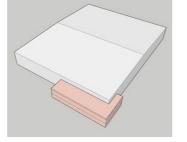
## **B/ADJACENT**

In this Mode, the Office Block sits adjacent the Warehouse. This provides for a regular, rectangular shape to the warehouse, easy connection between Office and Warehouse, and reduced cost. Design options for the Office Roof are somewhat limited to falling either towards or away from the Warehouse.



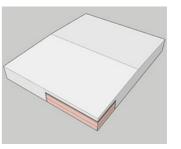
## C/ PARTLY INTEGRATED

The Office Module can be partly integrated to the Warehouse Block.



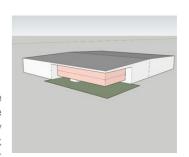
## D/ WHOLLY INTEGRATED

The Office Module can wholly integrate with the Warehouse. This Option has the possible benefit of reducing the overall cost of the office component (relative to Option b above), because the warehouse roof is very efficient structurally and can cover the Office Component. Because of the relative height of the two storey office (approx. 8mtrs) and the warehouse (approx 12 – 13.7 metres), there arises a space above the Office Component, and under the warehouse roof. This 'leftover' space could be utilised for a range of functions.



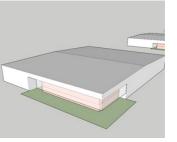
# E/ WHOLLY INTEGRATED, RECESSED, SCREENED

Extending on logic of Option D above, the warehouse roof structure can be utilised to cost effectively suspend screening and articulation in front of the Office Component Glazing. This provides for shaded and covered outdoor amenity for workers, reduces heat load on glazing and provides an interesting outlook from with offices. An example of this kind of activated edge can be seen at Section XX, PRECEDENTS 'East Pilbarra Arts'.



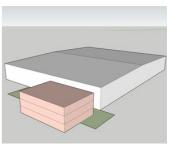
# F/ WHOLLY INTEGRATED, RECESSED, ELEVATED

Extending on logic of Option E above, the height of the warehouse roof could permit the two storey office component to lift up off the ground, creating a liveable undercroft for staff amenity, landscaping, etc.



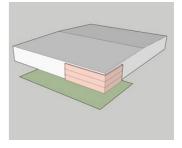
## G/3 STOREYS SEPARATED

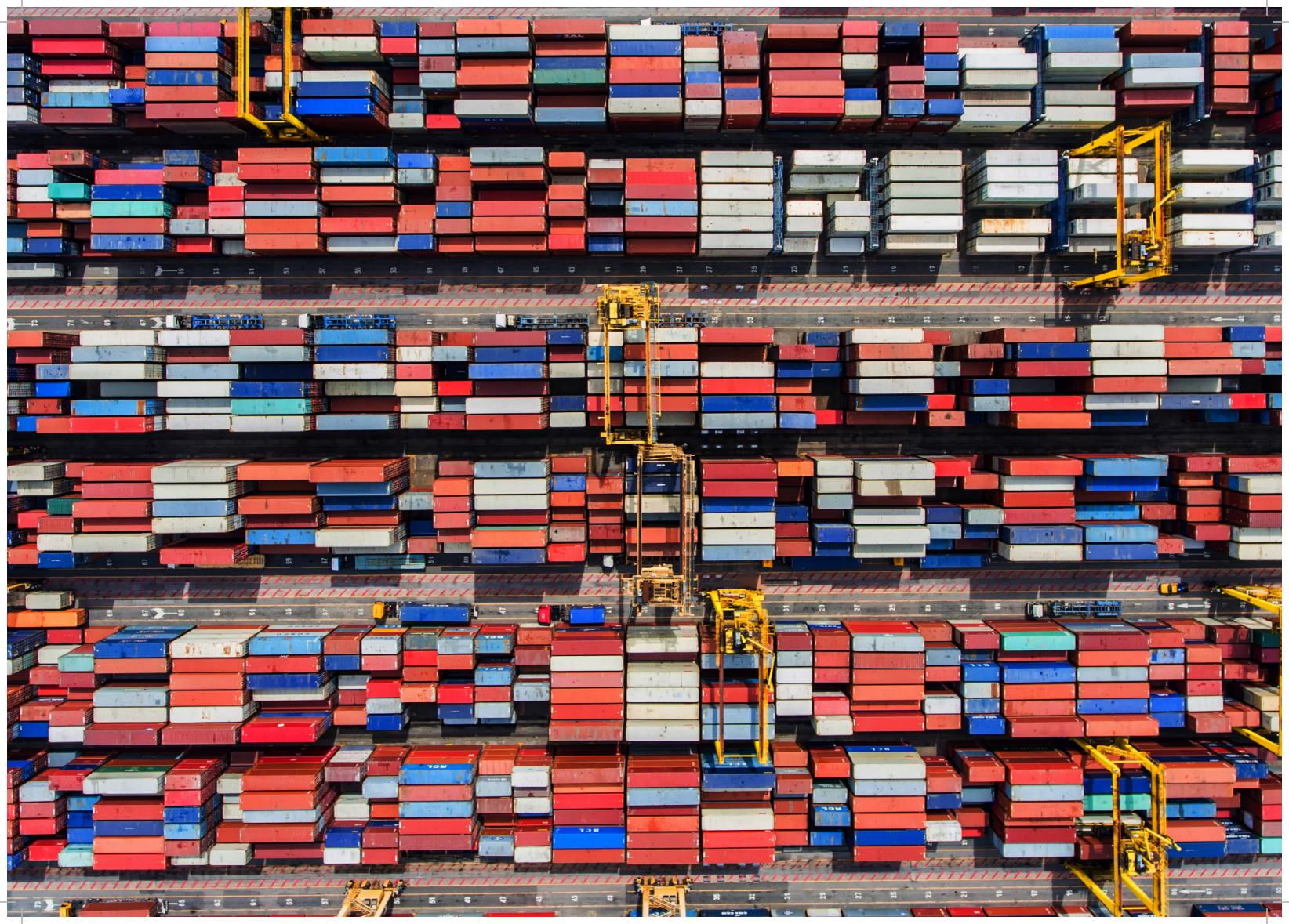
An alternative to the two storey design is to provide office facilities over three levels.



## H/3 STOREYS INTEGRATED

Recessing the three-storey office into the warehouse is a good fit in terms of utilising all the available volume up and under the warehouse roof. It is expected this design option will provide good cost efficiency.

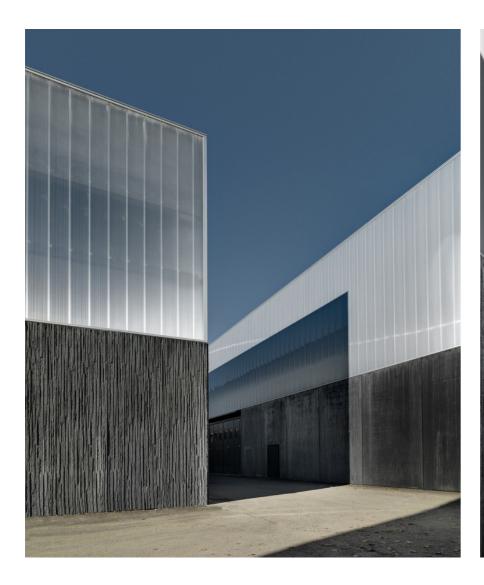




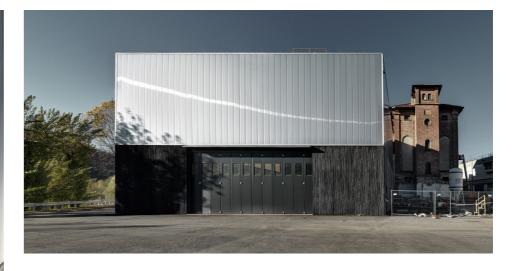
# **4.0 PRECEDENT**

## **4.1 PERSICO INDUSTRIAL AREA**

ARCHITECT: FRANCESCO ADOBATI





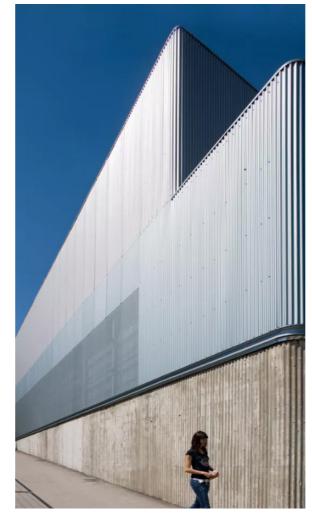


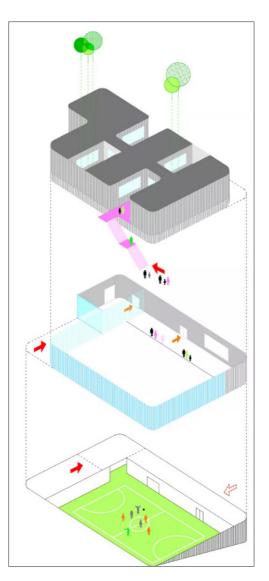
# **4.2 COLEGIO BERNADETTE, MADRID**

ARCHITECT: PO2 ARQUITECTOS











# 4.3 SPORTS HALL, NETHERLANDS

ARCHITECT: SLANGEN KOENIS

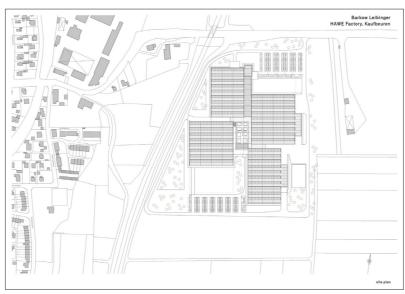






## **4.4 HAWE FACTORY KAUFBEUREN**

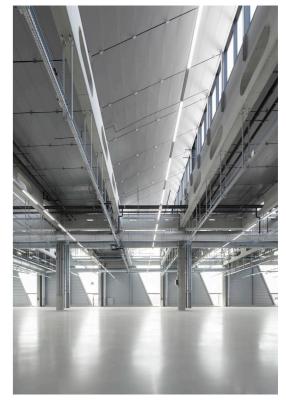
ARCHITECT: BARKOW LEIBINGER











## 4.5 OPTIMAL MEDIA LOGISTICS CENTRE

ARCHITECT: CARSTON ROTH





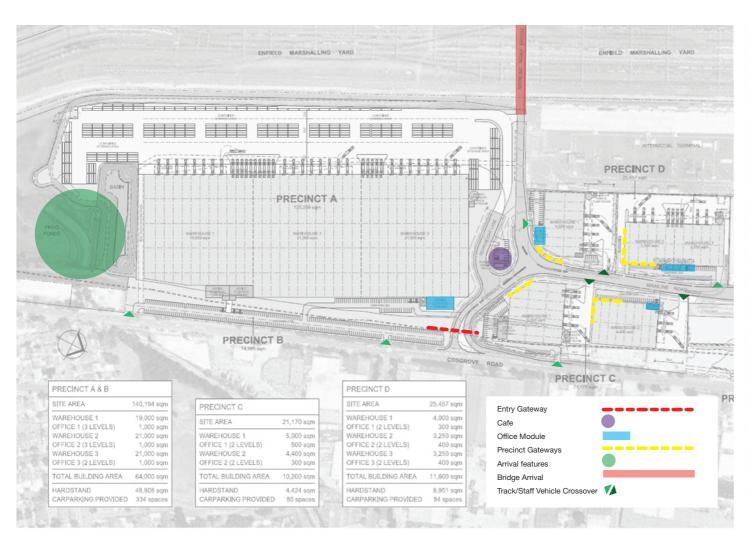


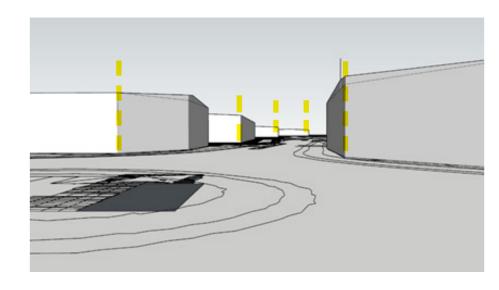


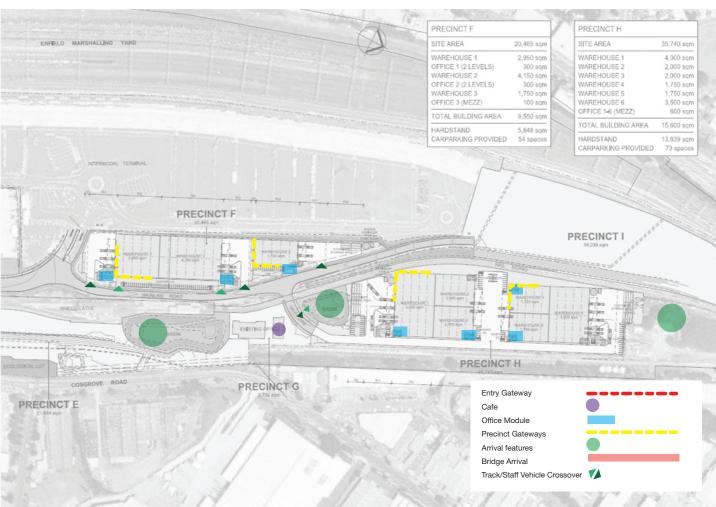


# 5.0 MASTERPLAN

## **5.1 DESIGN FEATURES**







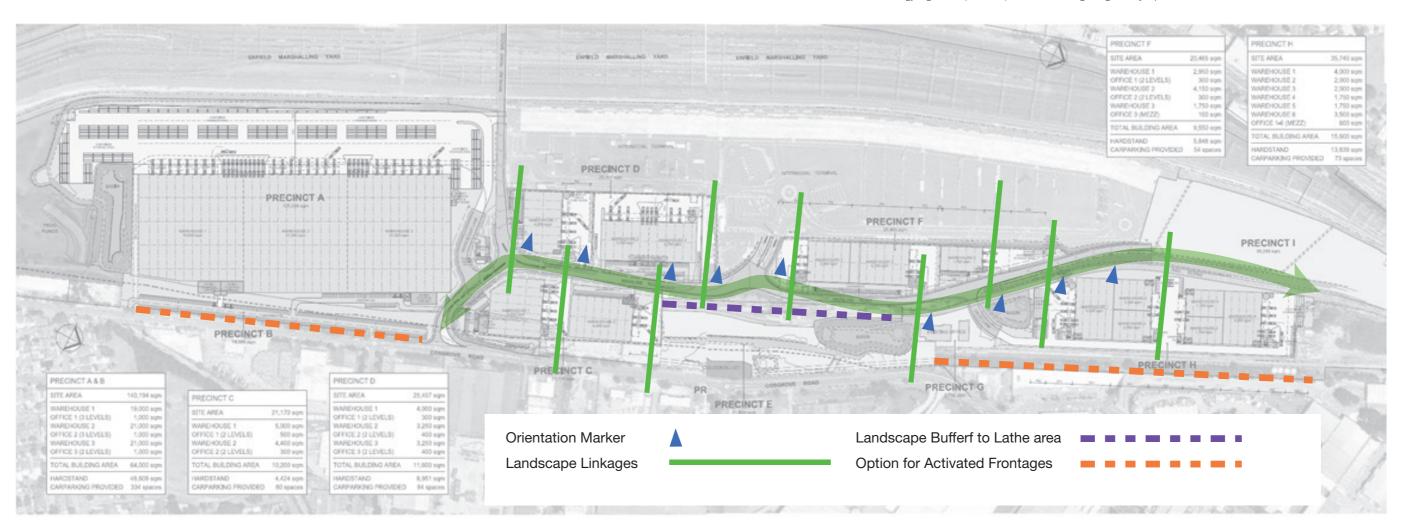
## **5.2 ORIENTATION**

The existing Roadway route will be retained and upgraded to suit the design vehicle requirements. This roadway is central to the Project and is the key 'spine' from which Precinct Orientation can be established. This is important given the number of trucks and vehicles using the site every day, as well as enhancing and reinforcing the Precinct Brand.





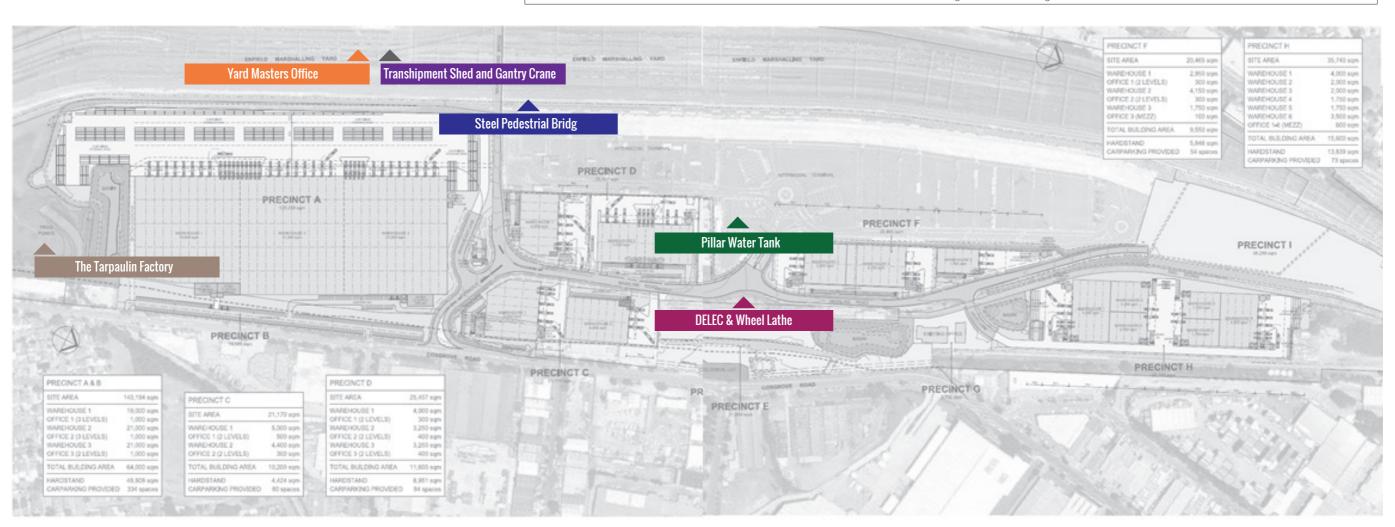
Architecture as Marker, Songjang Hotel (ATKINS) Precinct Lighting at Olympic Park, Tonkin Zulhaika Greer



## **5.3 EXISTING STRUCTURES**

The existing Roadway route will be retained and upgraded to suit the design vehicle requirements. This roadway is central to the Project and is the key 'spine' from which Precinct Orientation can be established. This is important given the number of trucks and vehicles using the site every day, as well as enhancing and reinforcing the Precinct Brand

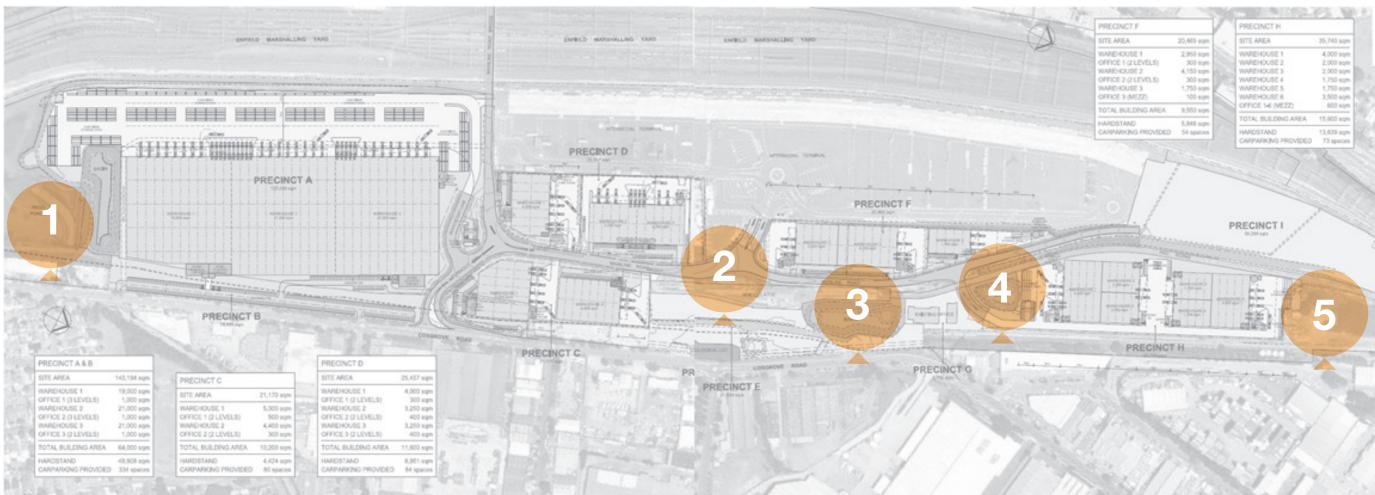
	Key	Structure	Location	Description	Proposed Outcome
	$\triangle$	The Administration Building	Centre of the Abandoned Enfield Marshalling Site	20th Century Multi-coloured Brick Building with metal casement windows, glazed two storey Lobby and entrance tower	Record and Demolish
		The Tarpaulin Factory	Corner of Punchbowl and Cosgrove Road	Assemblage of two 19th century prefabricated cast and wrought iron single bay buildings that were once in Central Station.	Retain. Future use to be decided. Structure to be stabilised against further deterioration or re-site to rail heritage organisation.
		Yard Masters Office	Western Fringe of the site, toward the southern end of the Yard	Two storey brick building almost square in form. Dates from early 1900's.	Record and demolish.
		Pillar Water Tank	Centre of the Site		Record and re-site to appropriate display location on ILC site or to rail heritage organisation.
		Steel Pedestrian Bridge	South of the Yard Master's Office	80 metres in length	Record and re-site to rail heritage organisation or to appropriate display location on ILC site
	•	Transhipment Shed and Gantry Crane	Adjacent to the administration building in the centre of the Site	Post and beam timber structure, 80mtrs in length and 10 meters wide, with attached gantry crane.	Re-use some of the wood in landscaping, dismantle and relocate remainder. Gantry crane to be recorded and re-sited to an appropriate location on the site
		DELEC & Wheel Lathe	Eastern side of the Site	Office building, amenities building, wheel lathe shed, turntable, fuel storage tanks, DELEC platform, washing down and cleaning areas	Demolish DELEC buildings and structures. Retain wheel lathe area for continued use.

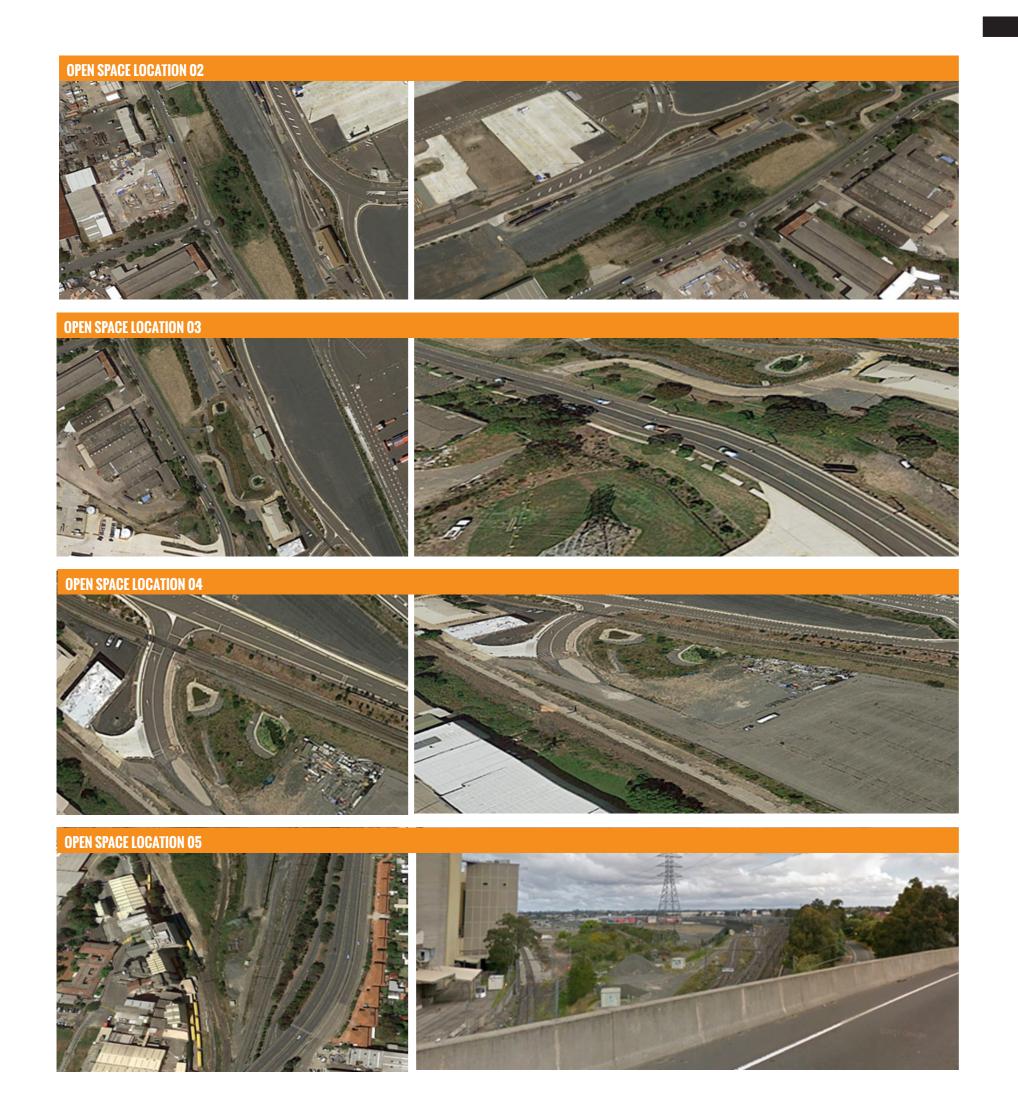


## **5.4 OPEN SPACES**

Several existing open space features exist at the site, that are proposed to be retained and possibly rehabilitated with landscaping works for the benefit of site workers and visitors. This section investigates the location and condition of the various areas.







## **5.5 SITE ACCESS**

Access to the Site can be gained from the M4 Motorway and Centenary Drive from the north, Hume Highway from the north east and north west, and Punchbowl and Roberts Road from the South leading from the M5 Motorway.

Roberts Road connects the Site with the Southern and North Western areas of Sydney, as well as the M4 Motorway to Sydney's West and the M5 Motorway to Sydney's south west.

The existing rail freight railway line to the Enfield Marshalling Yards provides a direct freight rail connection with Port Botany, approximately 18klms away.



# 6.0 ARCHITECTURE

## **6.1 DESIGN APPROACH - SITE**

The Design for the Site Plan has been established by the Masterplan Approval Documents. There are several complexities at the site that must be dealt with by the Masterplan Design, including:

- Existing Storm and Gas Main traversing the Site
- Existing Ecological Features Frog Ponds
- Existing Drainage Topography and On Site Detention Features
- Wheel Lathe and associated Rail Lines
- Retention Banks and Walls
- Topographical variations
- Existing Road Infrastructure
- Existing Intermodal Facility Functionality

There is also the opportunity to define new Road Edges along Cosgrove Road.

The Site itself is situated in an inner west location, meaning that the surrounding area is A possible future consideration of the Masterplan Design may be the proposed already built up and is not greenfield. Whilst this may stimulate thinking about context use of Precinct E, situated between Wheel Lathe and Cosgrove Road. and site situation, in fact the Enfield Intermodal will be a first mover project on a new

phase of development for the Enfield Area. It is anticipated that the Enfield Intermodal Site will stimulate a new level of thinking about Business Operations in the area and in the longer term, the project may stimulate further development and renewal on adjacent sites, much like the work of Goodman in Alexandria.

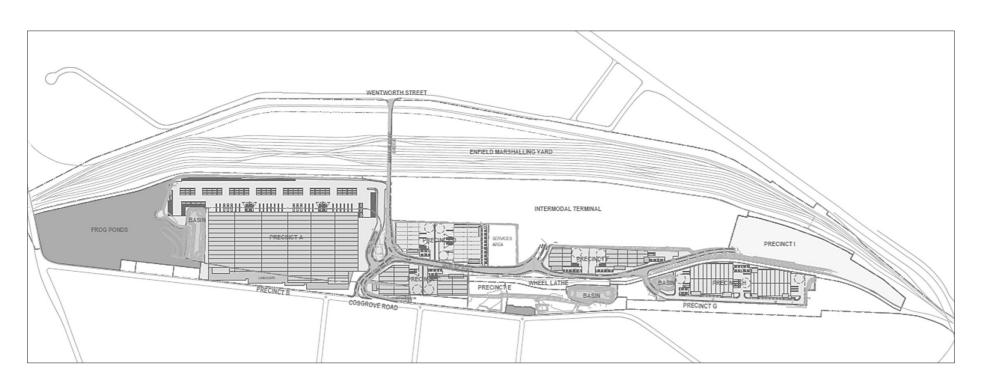
The Project Function is predominately one very large warehouse, and several small to medium warehouse sites. However, associated with this key function, are the below possible associated uses:

- Pop up Retail in the form of Shipping Crate Villages
- Exercise zones and Personal Health Facilities
- Shade and Vegetation to provide respite for Workers
- Light Industry or Commercial Tenancies along northern section of Cosgrove Road Frontage, adjacent Precinct A

Legibility for Vehicles arriving at the Site is also critical to the successful operation of the Facility. As such, the design also considers:

- Site Legibility Markers
- » Site Lighting
- Site Axial Relationships

The site predominantly orients to the Central Spine roadway



Goodman **ENFIELD MARSHALLING YARD** INTERMODAL TERMINAL FROG PONDS PRECINCT A PRECINCT I PRECINCT E TOTAL BUILDING AREA TOTAL BUILDING AREA TOTAL BUILDING AREA PRELIMINARY

## **6.2 MASTER PLAN RESPONSE**

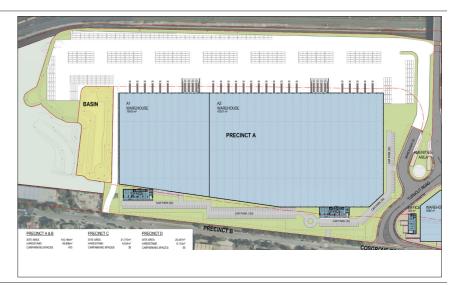
SBA provide a Masterplan Response, for discussion as part of this Submission. SBA The Masterplan Response is also an opportunity for SBA to understand the Design understand the Masterplan, and each individual site, is highly iterative and will undergo Requirements for each precinct. Those are understood as per below per Precinct. several transformations as it moves to realisation as a built project.

Precinct A is a very large site containing a large format warehouse, divisible to 2 or 3 warehouses. The bench level for the Warehouse sits above Cosgrove Road by about 3 - 4 metres. As such, the Masterplan Response considers the opportunity to sleeve Light Industrial or Commercial Units as Shopfronts to Cosgrove Road, with car parking behind, within the Precinct B umbrage. This allows the Precinct A Warehouse to enlarge towards the Cosgrove Road frontage, to gain further yield for this Facility.

#### PRECINCT A & B

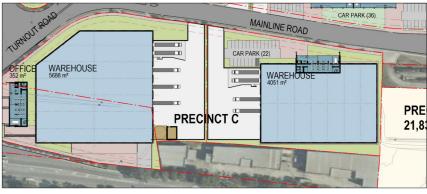
An additional complexity contemplated by this Masterplan Response, is the issue of transitioning vehicles up and onto the Precinct A Warehouse Level, from the Cosgrove Road Entry. It is noted that the existing Road Entry to the Enfield Intermodal Site, from the Mainline Road and Cosgrove Road intersection, transitions up and onto the main Enfield Intermodal Site level, within reasonably close distance to the Cosgrove Road intersection. An innovation contemplated by this Masterplan Response, is to remove the requirement to circulate worker and visitor cars on and around this Warehouse level, by collocating cars to the Cosgrove Road Level, in what would be effectively a basement level parking, below the Warehouse Offices, and connecting up to the Office Levels via Lift and Stairs. This idea means that additional driveways within Precinct A at the Warehouse Level are not required, allowing the Precinct A warehouse yield to increase.

It is noted that an existing underground mains Gas Line traverses through Precinct A, servicing locations beyond the site. As such, any proposed works that effect the Gas Line must ensure a continuity of service. The above design proposal anticipates that the Gas Line will need to be temporarily diverted, then rebuilt into the Design of Precinct A.



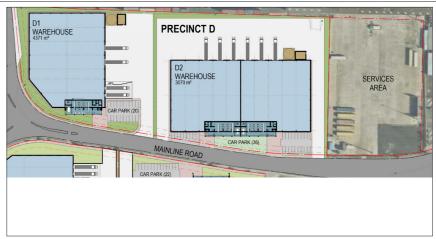
#### PRECINCT C

The Masterplan Response considers Precinct C, along with the southern part of Precinct A, to be a gateway Site for the EILC Project. As such the site design and layout is carefully considered in terms of how the site provides a sense of quality and presence at arrival to the EILC Facility. The Masterplan Response also contemplates the consolidation of the Precinct C Loading Dock Areas, and orientation of building alignments to match Precinct A. This alignment is carried through the site, for consistency of layout and improved axial orientation and legibility.



#### PRECINCT D

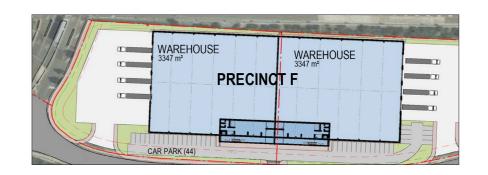
The layout for Precinct D is more or less unaltered except for adjusting the Building Alignments to match the Precinct A alignment. This alignment releases some space along the triangulating northern Boundary of this Precinct, which is contemplated by this Masterplan Response as being made available to Worker Amenity Facilities



Precinct F is relatively unchanged in the Masterplan Response, except for building alignments as noted above, and because the narrow southern end of the Precinct is considered low in utility value to the development of this Precinct, it is proposed as being allocated instead to Worker Amenity use.

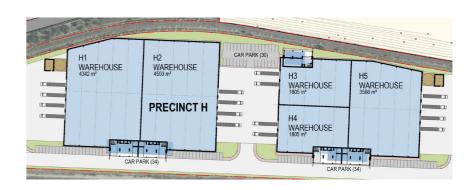
#### PRECINCT F

Site levels require the adjustment of existing battered banks along the Precinct's western Boundary, to suit the preferred Warehouse Designs for this Precinct.



#### PRECINCT H

Precinct H is relatively unchanged in the Masterplan Response, except for building alignments as noted above. The intended use of the adjacent Precinct G may effect the preferred design of Precinct H. It is noted that Main Line Road rises up along the western Boundary of Precinct H, and as such a large earth revetment wall exists along this Boundary.





SBA ARCHITECTS - ENFIELD INTERMODAL TERMINAL DESIGN CONCEPT

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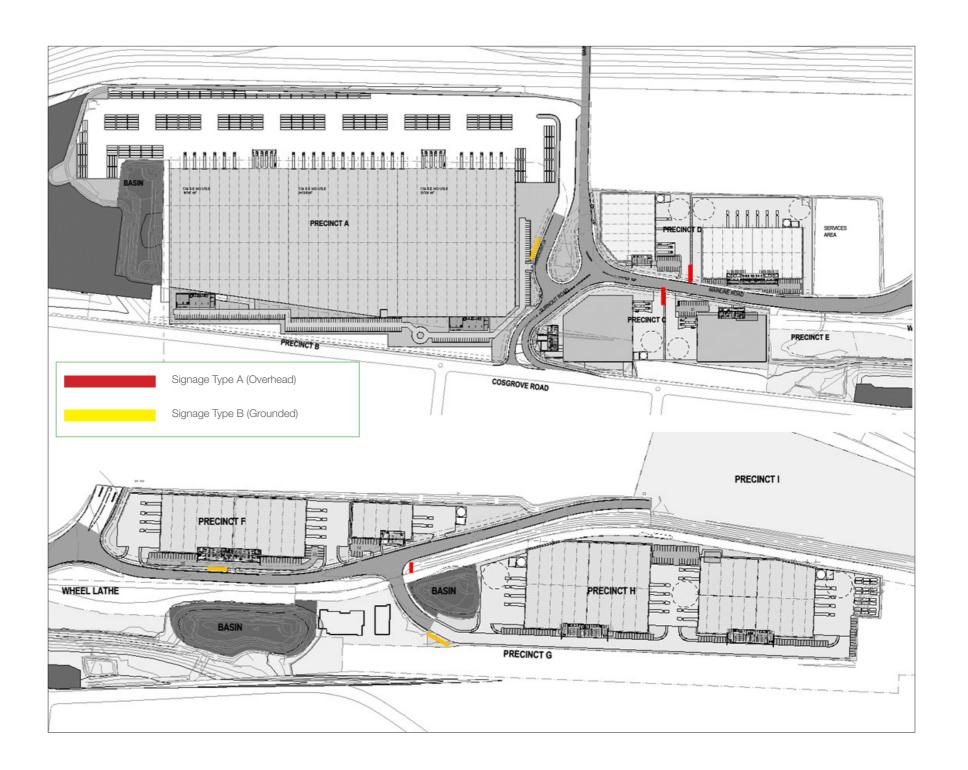


## **6.4 SITE FEATURES**

### PRECINCT IDENTIFICATION

Signage and Branding is a key part of the Site Design strategy. This strategy at once relates to branding for the EILC Precinct as a whole, as well as for the individual Customers who choose to base their operations at the Site.

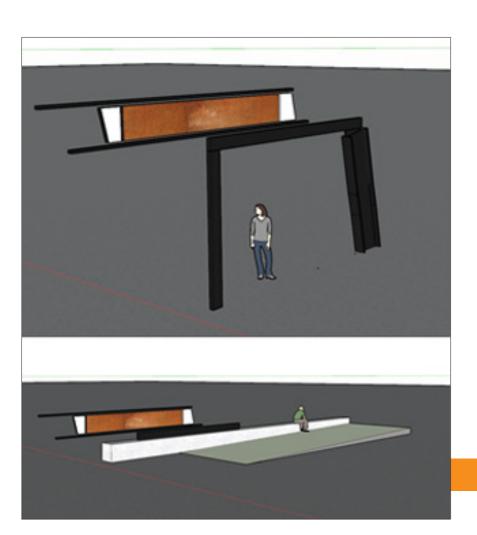
A clearly legible site will improve safety and efficiency of operations. A defined, approachable and resonant Brand will reinforce the value of the Operational Offer.



### **ESD FEATURES**

The Environmental Design solution in this report deals with possible inclusions for Site lighting and legibility is considered an important part of the Site Design. As such, Sustainability Design. Energy Generation and Water Efficiency are the major ESD themes considered for this project, as relate to the Masterplan.

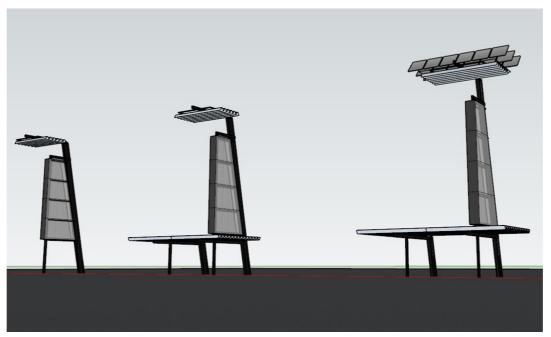
It is anticipated that the scope of these possible inclusions will be reviewed in later phases of design, and the masterplan and individual precinct plans will be adjusted to make appropriate allowances.



#### LIGHTING ARRAYS

lighting arrays are proposed to be included to the Project to provide for a safe working environment during evening hours, and improve legibility of the site for truck drivers who may not be altogether familiar with the layout and address.

The Light towers also provide definition of clear axes through the site, as well as providing a unique and memorable sense of Precinct Identity. SBA propose to work with Lighting Designers to ensure the site lighting strategy is clearly evolved in line with the site function requirements and design intent.

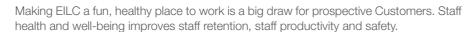


## **6.5 AMENITY**

It's not so easy to get a good coffee at most Industrial Estates. There's usually very little amenity in terms of what inclusions inner city locations enjoy.

- » Café's
- » Landscape Trellis and Shade Structures
- Earth Berms
- Exercise Features
- Landscape Interaction
- Boule
- Outdoor PingPong
- Park Spaces
- Park Furniture Heritage Trail
- Ecology Network

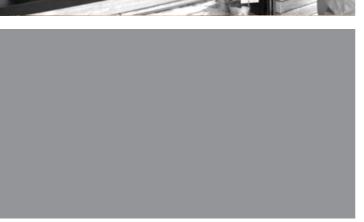


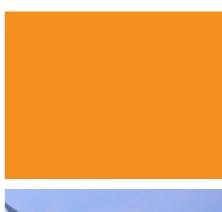


EILC can be different. Already its location is more like trendy inner city Sydney, than it is the Outer West. Amenities that can be introduced at low cost to the Precinct include:

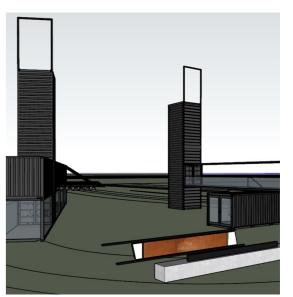
Something interesting, unique and notable will put the EILC Facility 'on the map'. In fact, that's a pretty good branding slogan – Enfield Intermodal – get your business 'on the map'.













## **6.6 YIELDS**

The Masterplan Response yields a total of 126,784sqm GFA, comprised of:

Warehouse 109,577sqm
Warehouse Office 8,960 sqm
Commercial 8,247 sqm
Cars 494

Cars equate to approx. 1 per 257sqm GFA (Cars for Cosgrove Road Commercial may be calculated at different rates). The previous Masterplan yields 110,950sqm GFA (Warehouses and W'House Offices). The Masterplan Response Scheme yields 118,537sqm GFA, or an additional 7,587sqm GFA (and an additional 8,247sqm GFA for commercial spaces along Cosgrove Road. Yields are described per Warehouse as per the below schedule:

PRECINCT SITE AREA APPROVED			APPROVED	APPROVED BUILDING PROPOSED							
		GFA	FSR	Precinct	Office	Warehouse	Commercial	Total GFA	FSR	CARS	1 per x sqm
PRECINCT A	125,209m <sup>2</sup>	64,000m <sup>2</sup>	0.51	A1	1,200m <sup>2</sup>	19,505m <sup>2</sup>				50	
				A1	1,220m²	42,927m <sup>2</sup>				176	
				Total	2,400m²	62,439m <sup>2</sup>	7,637m²	72,469m²	0.58	226	276
PRECINCT B	14,985m²										
PRECINCT C	21,170m <sup>2</sup>	10,200m <sup>2</sup>	0.48	C1	500m <sup>2</sup>	5,688m <sup>2</sup>	610m <sup>2</sup>			40	
				C2	500m <sup>2</sup>	4,067m <sup>2</sup>				20	
				Total	1,000m²	9,755m²	610m²	11,365m²	0.54	60	189
PRECINCT D	25,457m <sup>2</sup>	11,600m <sup>2</sup>	0.46	D1	500m <sup>2</sup>	4,371m²				20	
				D2	500m <sup>2</sup>	3,178m <sup>2</sup>				17	
				D3	500m <sup>2</sup>	3,178m²				17	
				Total	1,500m²	10,727m <sup>2</sup>	0	11,727m²	0.46	54	217
PRECINCT E	21,839m²										
PRECINCT F	20,465m <sup>2</sup>	9,550m <sup>2</sup>	0.47	F1	500m <sup>2</sup>	3,457m <sup>2</sup>				14	
				F2	500m <sup>2</sup>	3,457m <sup>2</sup>				22	
				F3	200m²	1,788m²				14	
				Total	1,200m²	8,702m <sup>2</sup>	0	9,902m²	0.48	36	275
PRECINCT G	3,732m <sup>2</sup>										
PRECINCT H	35,750m <sup>2</sup>	15,600m <sup>2</sup>	0.44	H1	200m <sup>2</sup>	4,342m <sup>2</sup>				20	
				H2	200m <sup>2</sup>	4,503m <sup>2</sup>				14	
				H3	200m²	1,805m²				30	
				H4	200m²	1,805m²				10	
				H5	200m²	3,566m²				32	
				Total	1,000m²	16,021m²	0	17,021m²	0.48	106	161
PRECINCT I	38,299m <sup>2</sup>										
Total	181,687m²	110,950m²			7,100m²	107,637m <sup>2</sup>	8,247m <sup>2</sup>	122,084m <sup>2</sup>		482	

## **6.7 DESIGN APPROACH-OFFICE**

The proposed Office Design is carefully considered to support:

- » Flexibility
- Brand and Precinct Identity
- Cost Effectiveness & Durability
- Ease of Buildability
- Worker Amenity and Staff Utility

SBA hope to ameliorate the worker / manager separation between the warehouse and the Office, and provide a collaborative, supportive environment for all Customer employees, integrated in a positive way to improve productivity, worker satisfaction and staff retention. SBA understand these metrics are important to Customer businesses and as such, represent a point of difference for the Enfield Intermodal Project and other projects in the light industrial tenant sector.

SBA also understand the importance of 'Team' environments to customer businesses. A Facility that encourages interaction and collaboration, with positive worker experiences. Opportunities for respite, and collegiality, represent a happier, healthier workplace.

In terms of the Design Proposal, SBA believe the design provides for Goodman's requirements:

- Fresh New Identity
- Modern Aesthetic
- Transgenerational (Timelessness)
- High quality Design and Finish
- Differentiated from the Goodman Brand
- Market Leading and Innovative in Approach

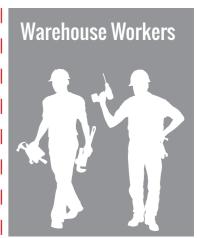
The Floor Layout is Innovative and provides the following facility:

- Double height Entry
- Limited extents of overhead glazing
- Memorable Arrival Experience
- Multifunctional Space for use by Tenant as Workstation Area, Product Display, Events, Staff Utility
- » Upstairs Lunchroom
- Ground Level Offices

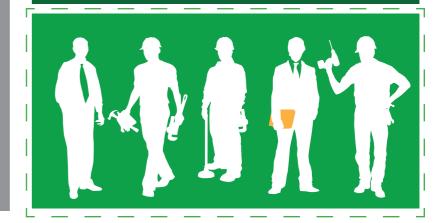
### **Implied Physical Separation** Management and Workers







Implied inclusion between management and workers











#### LARGE OFFICE

It is envisioned this office Module will be deployed on Precinct A. This office design provides approx. 1200sqm GFA on 2 levels.

Locating the Lunchroom upstairs, provides workers with an outlook across the Precinct from the upper floor, and links with outdoor balconies at this upper level.

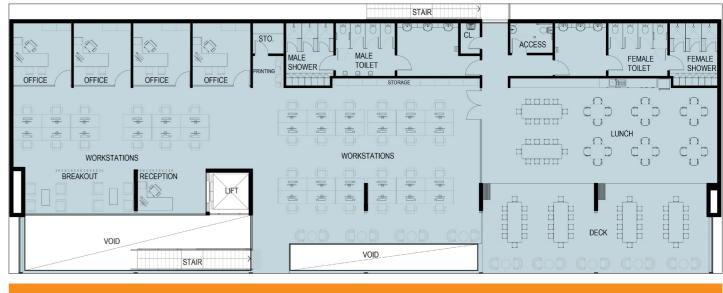
The Recreation Deck for Staff is located on the upper floor, providing an elevated, pleasant outlook for Staff, across the precinct and beyond through the Site, whilst not encroaching on Car Spaces. Locating offices at the ground floor allows the reception -area and

multifunctional space to be associated with the office areas. The Lift and Stair can be Overhead glazing permits daylight to flood into common areas along the building edge, enclosed and secured. For Offices in Precincts A and C, car parking is located below the Workstations area, avoiding the requirement for dedicated reception staff separate to the main work area.

Elevationally, the form is clean and simple. Glazing along the front façade, and to a depth of 4 metres wrapping at the corners and at the roof, combining with atria along this edge, provides ample opportunity for daylight to enter into the building. The building sits lightly in the Landscape.

and daylight to penetrate more considerably into the activated floor plate areas. In this the offices, with stairs and lifts interconnecting. A reception desk can be integrated to way daylight becomes an integral part of the design proposal. The extent of overhead glazing can be considered in further iterations of the design, and individual Customer requirements and preferences.









### **MEDIUM OFFICE**

The Medium Office provides around 500sqm GFA, on 2 levels.

This design provides a similar configuration to the Large Office, with the main Office and Workstations Area at the ground floor, with Lunchroom, Change Rooms and an outdoor Deck at the upper level.

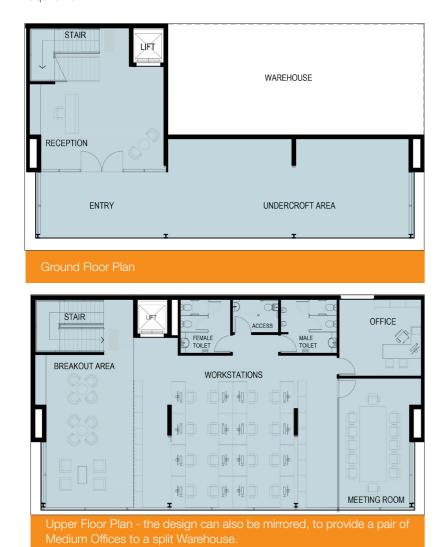


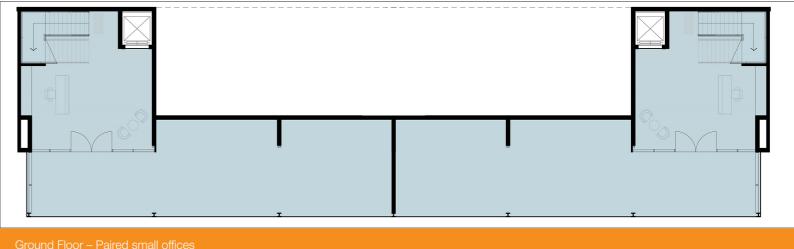


### **SMALL OFFICE**

The Small Office provides around 200sqm GFA, 50sqm at Ground Floor and 150sqm at Upper Floor.

The design located the Building Entry at Ground Floor, and Offices, Lunchroom and Staff Change at the Upper Floor. The resulting undercroft space can be used for outdoor Staff Amenity, Car Parking, or an expanded warehouse area depending on the individual site requirement.

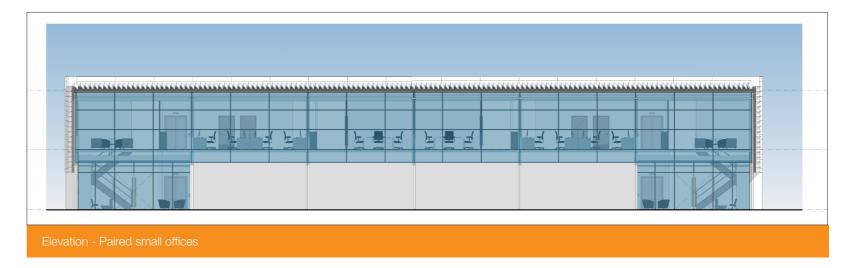




Ground Floor – Paired small offices



Ground Floor - Paired small offices



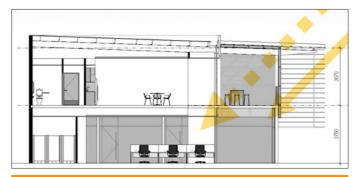
### **6.8 DESIGN FOR ENVIRONMENT**

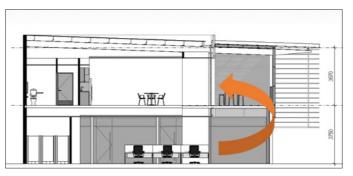
Key factors for healthy, amenable office work areas are as follows:

- » Acoustic privacy as required for separation of various functional zonings
- » Lighting Daylight being the preferred, but requiring control
- Views access to distance views from within workstation areas
- » Thermal relieving heat in Summer, containing warmth in Winter

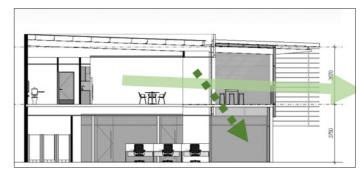
Worker productivity, and staff retention rates, are improved by healthy workplaces. Productivity and worker satisfaction can also be improved by design for:

- » Casual interaction opportunities for interaction away from work desks
- » Flexible seating arrangements combination of fixed desk workstations, and flexible areas, that can be multi-purposed (café & staff lunch, breakout for meetings, casual meetings, private work)
- » Public zones zones for congregation
- Interconnectedness seeing other parts of the Business and how they operate Hierarchy controlling design for hierarchy to imply inclusiveness, value of the employee, improving approachability of senior staff
- Utility functional, effective work areas that relate to the tenant operational brief
- Tactility (including visual) materials and finishes reinforce the 'work zone' environment, but are amenable, easy on the eye and provide for variation and interest.
- » Ergonomics Ensuring FFE selected is fit for purpose, & easy and comfortable to use









### **6.9 DESIGN FOR ROBUSTNESS**

inclusions to prospective tenants, such that there arises a mix of the designs across

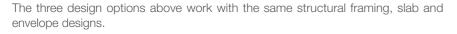
The Office Design proposed can have three variations, that could be offered as stretch the site. SBA believe this will provide an interesting and diverse built environment, within some clearly defined constraints. Those design Options are;

CRISS CROSS: LOUVRE: SOLID

the site's railway heritage.

Inspired by the memorable effect of the overhead rail lines (refer image), the Criss Cross batten The Louvre option provides a highly mannered, crisp, clean and modern aesthetic for the office. The Solid option provides a more massive and defined frontage to the Street, as well as a lower is unique and memorable, providing shade to overhead glazing and reflecting the inspiration of The Louvre extents can be adjusted to coordinate with varying extents of roof and wall solid. The cost alternative for the designs. Louvres provide fritted shade to office and worker areas within the office. The louvres provide a light, articulated edge to the building envelope, that lightens off the building mass and makes it more approachable and unique. The overarching simplicity of the design, provides a calm, purposeful setting for Workers and visitors to the Site.





Each of the above designs, may be further refined, to tune construction budget allowances. For example, the glazed roof may become either partly or wholly solid, with a series of skylights providing a sense of vertical aperture. It is anticipated that cost review and design tuning will occur in forthcoming phases of the design.





## 6.10 MATERIALS, SYSTEMS AND FINISHES

Materials, systems and Finishes proposed as part of the EILC Project, are based on the following parameters:

- » Durability
- » Longevity
- Quality
- » Cost Effectiveness
- » Reliability & Predictability

Two schemes are proposed, with similarities between each scheme. The two materials palettes are inspired by the below grouping of images.

PALETTE 01 – EXAMPLE IMAGES

Palette 01 is a tonal scheme, based around whites, greys, blacks and silver. It is anticipated that as part of Palette 01, the Customer Signage colour can become the feature colour within the tenancy signage and fitout







### MATERIALS EXTERIOR

#### PALETTE 01

### Glazing

Double glazed IGU, performance coated Green Comfortone or Similar



White Ceramic, Face 1 (Outer Face) Gintegral (Pattern in image is



Natural Anodised

Integral



Structural steel, Galvanised

Paint Finish Light Grey



Main Deck, Longline Concealed Clip PVF2 Colourbond Monument



### Cladding - Design 01 (Criss Cross)

Metal Deck, Horizontal Format Longline Concealed Clip PVF2



Cladding - Design 02

Metal Deck, Horizontal Format Longline Concealed Clip PVF2 Colourbond 'Monument'



Cladding - Design 03

Alpolic, Horizontal Cassette, 2400x300 stackbond pattern Integral



Precast (to match warehouse sub-wall), Grey Pigment Integral



#### Sunscreens-Design 01 (Criss Cross)

50x30 alum extrusion batten Rust Red



## Sunscreens - Design 02 (Louvre)

Large format bracket fixed louvre blade, aluminium Rust Red



### Sunscreens - Design 03

Alpolic, Horizontal Casette, 2400x300 stackbond pattern Silver Metallic, Black or Dark **Grey Soffit** 



### **MATERIALS INTERIOR**

#### PALETTE 01

Entrance

Polished Concrete Ashford Formula Clear hardener and anti static



Ceilings - Workstations

Metal Cassette, Perforated

1200x30 panel

White

Laminate

Activity, Offices & Meetings

Engineered Timber Flooring '0ak'



Precast or Off Form Controlled Setout to Formwork Bolts



Lunchroom

Vinyl

Terrazzo



### Entry Stair & Balustrades

Solid Timber Hardwood





Carpet

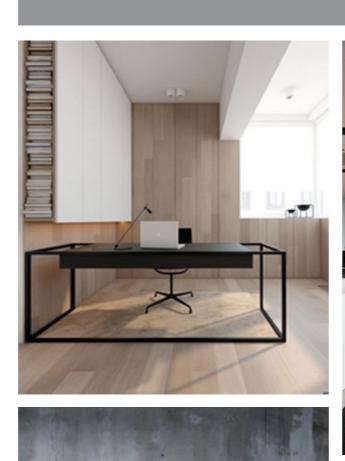






### INTERIORS CONCEPT IMAGES

PALETTE 02









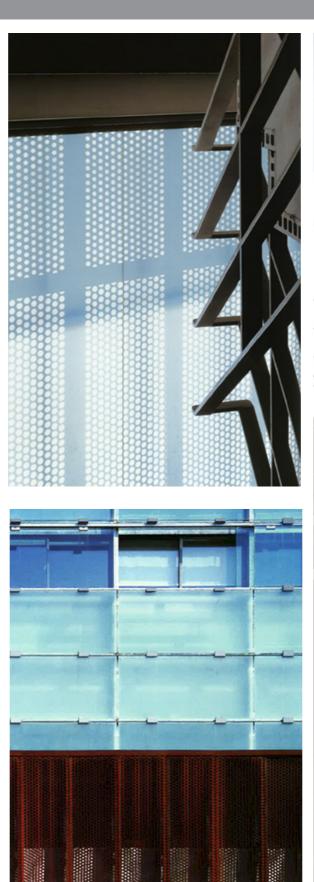


### **EXAMPLE IMAGES**

PALETTE 02

Palette 02 is a subtle coloured scheme, based around whites, neutral greens and copper tones. It is anticipated that as part of Palette 02, the Customer Signage colour can become the feature colour within the Tenancy signage and fitout.







### MATERIALS EXTERIOR

#### PALETTE 02

### Glazing

Double glazed IGU, performance coated Green Comfortone or Similar to suit section J





Main Deck, Longline Concealed Clip PVF2

Colourbond 'Ironstone'



Precast (to match warehouse sub-wall), Grey Pigment Integral



White Ceramic, Face 1 (Outer Face) Integral (Pattern in Image is Indicative Only)



### Cladding - Design 01 (Criss Cross)

Metal Deck, Horizontal Format Longline Concealed Clip

Colourbond 'Ironstone'



50x30 alum extrusion batten Rust Red



Natural Anodised Integral



### Cladding - Design 02

Metal Deck, Horizontal Format Longline Concealed Clip Powdercoat



## Sunscreens - Design 02 (Louvre)

Large format bracket fixed louvre blade, aluminium Rust Red



### MATERIALS INTERIOR

#### PALETTE 02

### Entrance

Polished Concrete Ashford Formula Clear hardener and anti static



#### Cladding - Design 03 Ceilings - Workstations

Alpolic, Horizontal Cassette, Metal Cassette, Perforated 2400x300 stackbond pattern 1200x30 panel White



Cabinets

Laminate

### Sunscreens - Design 03 (Solid)

Structural

Silver Metallic

Structural steel, Galvanised

Paint Finish Light Grey

Alpolic, Horizontal Cassette, 2400x300 stackbond pattern Silver Metallic,

**Rust Red Soffit** 



### Activity, Offices & Meetings

Engineered Timber Flooring



### Blade Columns

Precast or Off Form Controlled Setout to Formwork Bolts



#### Kickplates

Solid Timber Hardwood



Vinyl



Terrazzo



#### Entry Stair & Balustrades





Carpet



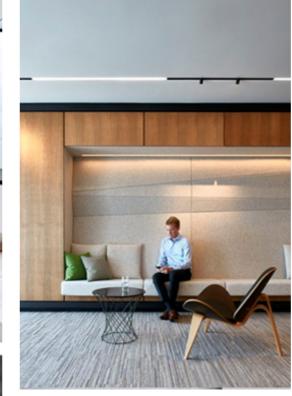
Tile, Gloss Green

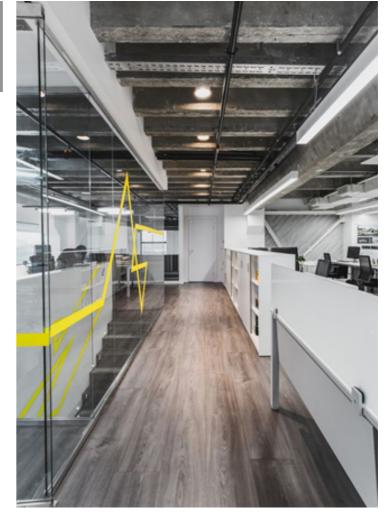


### INTERIORS CONCEPT IMAGS

PALETTE 02













### **6.11 DESIGN APPROACH - WAREHOUSE**

Construction efficiency drives the design approach for warehouses. Over time, a highly Those innovations are: rational and efficient standard design drives the appearance of a typical Warehouse. SBA have a developed understanding of Warehouse Design and structural efficiency » requirements.

Working from within this framework of structural efficiency, SBA propose innovations to the warehouse design that will provide a point of difference within the market and a clearly identifiable and site specific design typology for the EILC Project.

- Extruding, illuminated corners at Front, wrapping to overhead shroud
- Composition / appearance of Internal Environment of Warehouse

### **CORNER ARTICULATION**

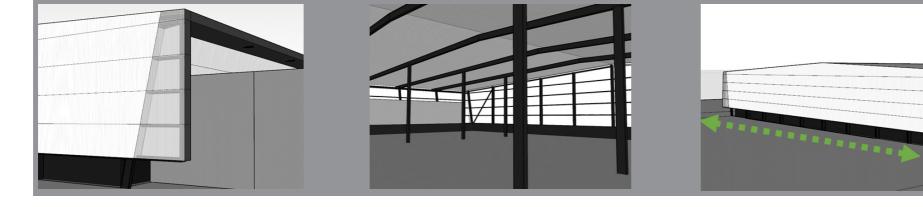
### COMPOSITION & APPEARANCE OF INTERNAL ENVIRONMENT OF **WAREHOUSE**

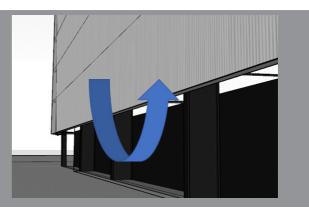
### INSET PRECAST WALLS AND VENTILATION GAP (OPTION)

fascia of the blade wraps up and over to visually tie into the architectural building rental tenancy market. expression of the Office component.

An outrigger frame of RHS is hung from the last column on each corner Given that the internal of the warehouse is a full time work environment for The precast walls are proposed to sit behind the perimeter columns. Additionally, the proposed alignment of the precast panel to the inside columns. The perimeter precast wall is proposed as coloured to a dark a vandal and insect proof mesh. colour, to match the perimeter column finish colour. This dark base, and light top, gives the appearance that the warehouse mass (legible as the white surface), 'floats' over the ground plane

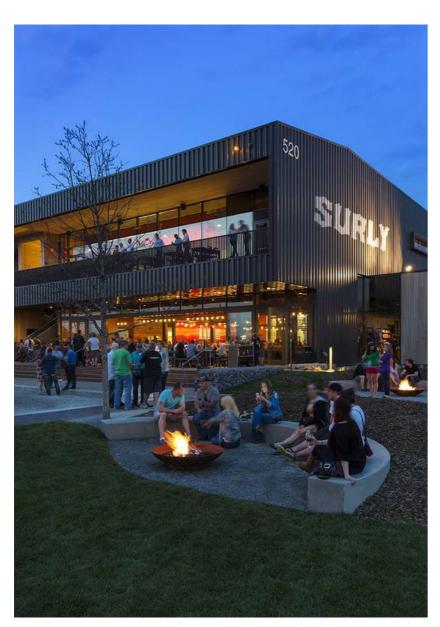
of the entry side of the Warehouse. This outrigger frame then supports staff of Customer businesses, SBA consider it may be worth investigating. This makes no difference to the structure design, and in fact deletes and general wall cladding to the outside of the structure column, creates extending wall purlins, as well as secondary purlins to the inside of the the composition of architectural elements, materials and finishes, in order the requirement to create movement joints in the ground bearing slab a ventilation gap to the warehouse periphery, deleting requirement for column and RHS frame., This structural array is then clad in opaque, to provide a clean, safe, and amenable environment for workers. This design, at column locations are unaffected as area is louvres in outside walls, and encouraging quality cross flow through the transparent cladding, and backlit from within the framing zone. The front represents a possible point of difference within the current industrial measured at the ground plane. Wall claddings are outboard to perimeter warehouse, important for worker amenity. This gap can be sealed with





# 7.0 LANDSCAPE













# 8.0 ENVIRONMENTAL DESIGN

### 8.0 GOVERNING PRINCIPLES

The proposed EILC development will reflect best practice in resource efficient design construction and operation. Key principles guiding the design will incorporate:

- » the use of energy efficient materials and designs
- » utilisation of renewable energy & materials
- » energy efficient technologies and operational strategies
- » water efficient technologies and operational strategies

### **8.1 OFFICE BUILDINGS**

Office and other public buildings will be designed to achieve best practice indoor environment outcomes (IEQ) including thermal comfort, visual comfort and indoor air quality while achieving the required energy efficiency outcomes. Specifically, the energy efficiency outcomes in the built environment will be achieved through the applications of passive design principles including:

- » Efficient façade design
- » Building orientation
- » Shading
- » Insulation
- » Thermal mass
- » Ventilation; and
- » Incorporation of suitable landscaping

In addition, building services and the supporting energy infrastructure will be designed to achieve the required performance outcomes and maximise economic use of renewable energy sources and energy efficient technologies. Buildings design and their mechanical services will maximise opportunities for passive cooling and heating to enhance indoor environment quality and to minimise buildings operating cost. This will be achieved by a considered integration of building architectural features with its mechanical systems together with appropriate control strategies, which include natural ventilation and daylight strategies.

# 8.2 WAREHOUSE AND WORKSHOP BUILDINGS

Warehouse design will reflect best practice in energy efficient design which will include maximisation of daylight use, low power density LED lighting systems, effective natural ventilation strategies, energy efficient mechanical ventilation and the application of thermal insulation to control indoor thermal environment. Where appropriate fast closing doors will be fitted to prevent excessive heat loss or gain. Where required, the energy efficient spot heating and cooling technologies will be deployed to maintain the required level of comfort for workers.

# 8.3. BUILDING SERVICES AND ENERGY INFRASTRUCTURE

The project will explore applications of state of the art renewable energy technologies, energy efficiency technologies and strategies to effectively manage consumption and maximise the economic use of renewable energy resources.

Consideration will be given to strategies for precinct scale energy infrastructure including:

- » Energy infrastructure design to enable effective and precinct wide demand management and demand response strategies
- » Central and distributed energy plant options including precinct scale heating and cooling
- Integration of water and energy cycles to maximise site energy utilisation and energy recovery opportunities
- » Applications of heat pump technology
- » Distributed generation, such as precinct scale solar PV
- Utilisation of solar thermal energy for domestic and heating hot water generation
- » Battery storage

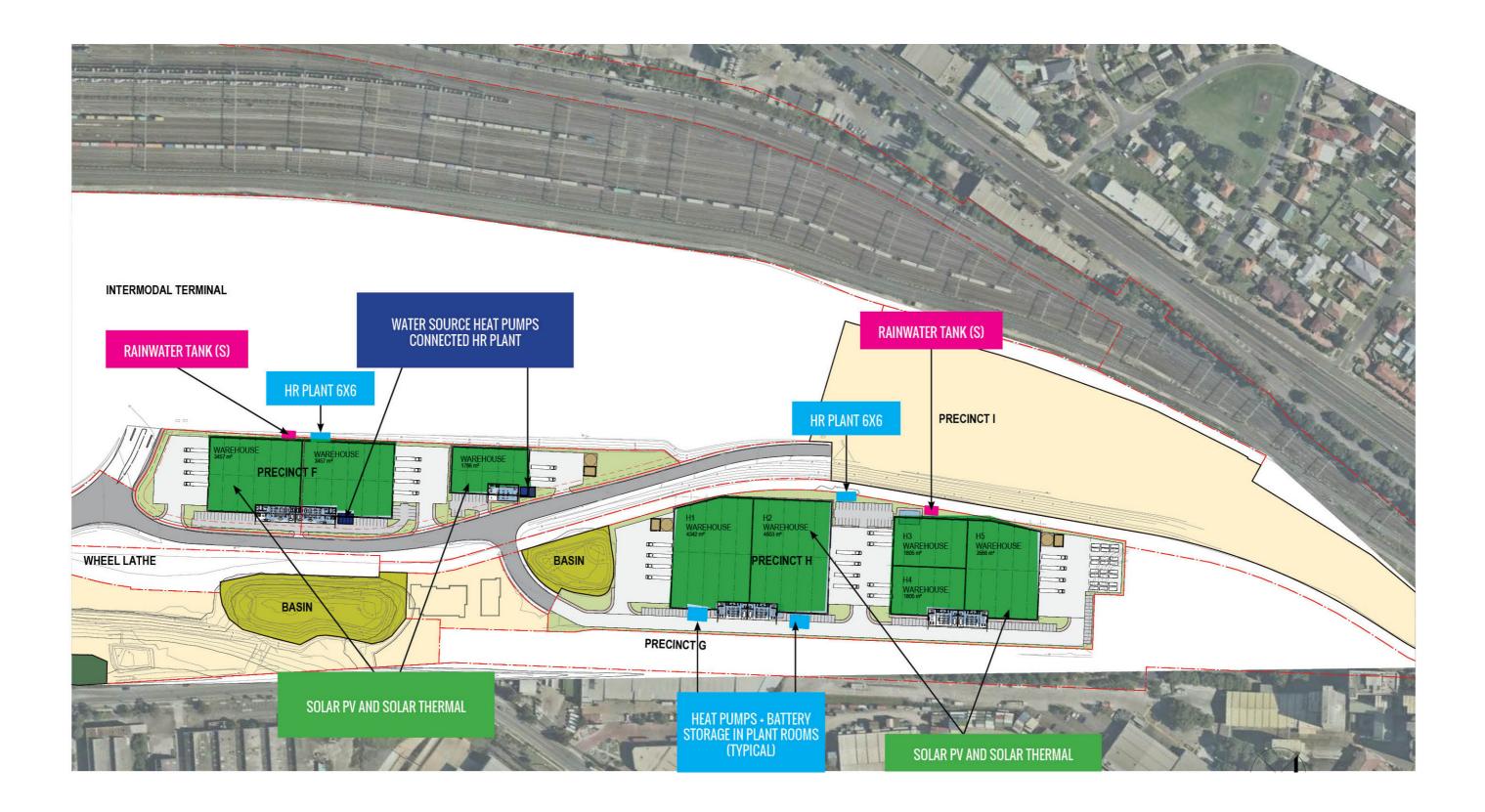
### **8.4 WATER EFFICIENCY**

Water management system at the ILC will be guided by the principles of water conservation and recycling. Key water use areas include:

- » Container wash-down
- » Irrigation
- » Mechanical services
- » Office consumption
- » General yard use

Water efficient technologies will be specified to minimise water use at the point of consumption. Effective water recycling technologies and strategies will be enabled to minimise water waste and discharge from site. This includes water efficient irrigation systems, wash-down equipment, fixtures and appliances. Water use for mechanical services will be minimised by the application of adiabatic cooling technologies which minimise water use while maximising energy efficiency of the connected mechanical plant. Appropriately sized rain water storage will be designed to minimise mains water use. In addition, consideration will be given to the recycled water infrastructure which will encompass water storage and filtration facilities.





# 9.0 EXPERIENCE

## 9.1 CURRENT WORKLOAD

PROJECT	CLIENT	STAGE	COMPLETION DATE
Oakdale South Industrial Estate	Goodman	Ongoing	Ongoing
Oakdale West Industrial Estate	Goodman	DA Complete	Ongoing
Oakdale Central Industrial Estate	Goodman	Construction Documentation.	Complete
Calibre Industrial Estate	Mirvac	Construction Documentation	Aug 2017
Berrinba Industrial Estate QLD - Master planning	GPT Group	Concept Design	Ongoing
Fitzpatrick Industrial Estate – Master planning	Fitzpatrick Investments	Concept Design	Ongoing
Autonexus Car Processing Facility – Fitzpatrick Industrial Estate	Fitzpatrick Investments	Construction Documentation	Aug 2017
Mercedes Benz Castle Hill	Aecom	Construction Documentation	Sept 2017
Mercedes Benz Seven Hills	Aecom	Construction Documentation	Sept 2017
Actron Air Warehouse Facility Marsden Park	Taylor Construction	Construction Documentation	Sept 2017
New Cold Highbay Milk Storage Facility VIC	Hansen Yuncken	Under Construction / Answering builders queries.	Oct 2017
Toyota Parts Facility – Oakdale Industrial Estate	Prime Constructions	Construction Documentation	July 2017
Symbion Warehouse Greystanes	Qanstruct	Construction Documentation	July 2017
Warriewood Industrial Units	Livingstone Group	Construction Documentation	July 2017
The Borough Industrial Estate Marrickville – Office Building and Industrial Unit Development.	Edinburgh Group	Development Application and Construction Docs	Ongoing
Nectar Farms Greenhouses – 100,000sqm greenhouse Stawell Victoria	Nectar Farms	Construction Documentation	Aug 2017
Shelta Warehouse Rouse Hill	Shelta Australia	Development Application	Ongoing









### 9.2 RELEVANT PROJECT EXPERIENCE

The following overview of relevant industrial projects undertaken by SBA Architects in the past 5 years demonstrates the relevant experience required for the successful completion of this project.

PROJECT	DESCRIPTION	CLIENT
Oakdale Central Industrial Estate	Masterplanning, Full design, SSD Application to NSW Dept. of Planning and ongoing construction documentation for 11 new warehouses totalling approximately 200,000sqm GFA.	Goodman
Oakdale South Industrial Estate	Masterplanning, Full design and SSD Application to NSW Dept. of Planning for 16 new warehouses totalling 420,000sqm GFA.	Goodman
Oakdale West Industrial Estate	Masterplanning, Full design and SSD Application to NSW Dept. of Planning for 24 new warehouses totalling 470,000sqm GFA.	Goodman
Calibre Industrial Estate Eastern Creek	Masterplanning, Full design and SSD Application to NSW Planning for 5 new warehouses totalling 120,000sqm GFA. Building 1 is currently under construction	Mirvac
Melbourne Markets Fresh Produce Warehouses	75,000sqm of warehousing spread across 5 buildings for the wholesale storage of fresh food to service Melbourne Markets.	Hansen Yuncken
Wembley Industrial Estate Berrinba QLD	Masterplanning for Industrial Estate Berrinba QLD	GPT Group
Toll IPEC Tullamarine Victoria	71,000sqm Freight Transport Facility at Tullamarine Airport Victoria housing a state of the art parcel sortation system processing in excess of 400,000 parcels per day.	Qanstruct
Toll IPEC Huntingwood NSW	48,000sqm Freight Transport Facility at Tullamarine Airport Victoria housing a state of the art parcel sortation system processing in excess of 300,000 parcels per day.	Goodman
Newcold Chilled Milk Storage Facility Victoria	40,500sqm Highbay storage facility for milk storage.	Newcold and Hansen Yuncken.
Toll Prestons	60,000sqm freight forwarding facility for Logos and Toll at Prestons NSW split across 2 buildings. Building 1 includes state of the art multi-level sortation system for high speed parcel processing.	Richard Crookes

PROJECT	DESCRIPTION	CLIENT
Toyota Parts Facility Horsley Park NSW	36,000sqm Parts and Accessories warehouse and distribution facility. Project is currently under construction.	Goodman and Prime Constructions
Pelikan Artline	30,000sq.m warehouse and distribution facility for Fitzpatrick Developments, Erskine Park, NSW.	FDC
DHL 1 (Canon)	20,000sqm warehouse and distribution facility for Goodman and DHL at Oakdale Industrial Estate Horsley Park.	Prime Constructions
DHL 2	32,000sqm warehouse and distribution facility for Goodman and DHL at Oakdale Industrial Estate Horsley Park.	Taylor Constructions
DHL 3	30,000sqm temperature controlled warehouse and distribution facility for Goodman and DHL at Oakdale Industrial Estate Horsley Park.	Qanstruct
DHL 4	28,000sqm warehouse and distribution facility for Goodman and DHL at Oakdale Industrial Horsley Park.	Prime Constructions
Sigma Pharmaceuticals	40,000sqm temperature controlled warehouse and distribution facility with state of the art multi-level sortation and picking system.	Goodman
Marsden Park Industrial Estate	Design and documentation for 70,000sqm of warehousing spread across 3 buildings for Actron Air and Medline. Currently under construction.	Taylor Constructions
Interlink Industrial Estate	Design and documentation for 30,000sqm industrial estate for Goodman.	Goodman and Prime Constructions
Coles Expansion	Design and documentation for 12,000sqm Expansion of the Coles Chilled Distribution Facility at Eastern Creek.	Goodman and Qanstruct
Symbion Pharmaceuticals	Construction Documentation of 25,000sqm warehouse at Greystanes	Qanstruct











### 9.3 KEY PEOPLE

### **DIRECTOR - GREG BAIRD**

As Co-founder and Director of SBA Architects, Greg has extensive experience across commercial, industrial, retail, residential and hospitality sectors. Greg is regarded as a leader in the field of Industrial Architecture, with over 30 years experience delivering large scale projects including manufacturing facilities, freight processing facilities, cold stores and warehouses for the major REIT's, design and construct contracts, owner occupier projects and private developments.

Greg has provided SBA Architects with strong leadership and direction since he co-founded the firm in 2003. He leads the design and business development functions of the organisation. Greg's personal integrity, commitment to customer service excellence and outstanding project management skills, have enabled SBA Architects to deliver exceptional outcomes for clients since the inception of the company. Greg has been responsible for the design of major commissions of a variety of corporate clients over the years including Goodman, GPT Group, Mirvac, Toyota, PAG, Australia Post, NRMA, as well as various design and construct contractors and project managers

### SENIOR DESIGN ARCHITECT - MATTHEW WILLIAMS

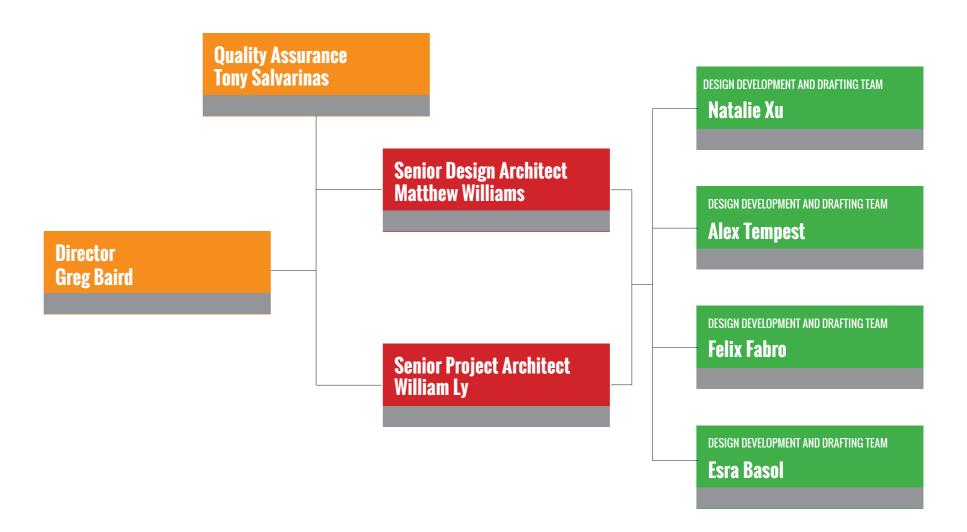
Matthew plays an integral lead role in the design team at SBA Architects. Matthew's passion for the creative process together with his strong consultation, design and technical skills ensure that each project delivers above expectations. A skilled designer, Matthew mobilises his passion for design by mentoring the team and representing the project's design intent.

Matthew's creativity, forward thinking solutions and focus on client needs, make him an influential architect. Matthew has gained project experience from design industry leaders including Berry Marshall (Denton Corker Marshall), Ken Yeang (TRHY), Tom Wright (Atkins), Kisho Kurokawa (KKAA) and Shane Thompson (BVN). Matthew's international experience includes projects in Dubai, Beijing, Kuala Lumpur and Jakarta.

### SENIOR PROJECT ARCHITECT - WILLIAM LY

William is a key member of the design and delivery team, with a particular focus on predesign and interiors. With 18 years experience in the architectural profession, he has a strong track record in managing all aspects of project delivery, from the early concept and design development phase through to construction, interior selection, product selection, council requirements and inspections.

William manages design and Masterplanning of industrial facilities, commercial fitouts and interior design projects, including product selections and furnishings. His experience spans across several key sectors including commercial, residential dwellings and interiors, office and medical fitouts, and hospitality. William conducts feasibility studies and produces concepts for all major clients including GPT, Goodman, Mirvac and Fitzpatrick Investments. His ability to build strong relationships with clients has led to exceptional feedback and repeat business.



# 10.0 FEE PROPOSAL

Thank you for your invitation to submit a fee proposal for architectural services for the proposed Enfield Intermodal Logistics Centre. This fee proposal is based on the RFP days under the terms of the Security of Payments Act 1999. documentation received via email on the 09 June 2017 and includes the following scope of services

FEE SCHEDULE	DESCRIPTION	\$
Stage 1	Preparation of all required documentation for submission to DP&E for modification of existing masterplan approval. We confirm this will be the preparation of the masterplan only.	\$18,000
	Preparation of all required documentation typical of Goodman's quality submissions to DP&E. This shall include the following drawings:	
Stage 2	<ul> <li>» Site Masterplan at scale 1:500 / 1:1000</li> <li>» Individual Site Plans for each Precinct at scale 1:500</li> <li>» Elevations and Sections for each building at scale 1:500</li> <li>» Office Plans at scale 1:200</li> <li>» Office Elevations at scale 1:200</li> <li>» Finishes Schedules</li> </ul>	
	Precinct A – Building 1 \$55,000 Precinct C – Building 1 \$25,000 Precinct C – Building 2 \$25,000 Precinct D – Building 1 \$25,000 Precinct D – Building 2 \$25,000 Precinct F – Building 1 \$25,000 Precinct F – Building 2 \$18,000 Precinct H – Building 1 \$25,000 Precinct H – Building 2 \$25,000	
	1.1001.10t 11 Dullaling 2 \$20,000	\$248,000

FEE SCHEDULE	DESCRIPTION	\$
Stage 3	Preparation of customer enquiry proposals, including any required modifications to the estate masterplan. We confirm these options will be undertaken on an hourly rate basis as and all costs incurred will be charged onto the project at suitable stages.	Hourly Rates
Stage 4	Preparation of Development Applications for specific developments for committed customers. Should the building require redesigning to suit the customers' requirements and their specific corporate identity then the DA fee will be as per the individual precinct fees outlined in Stage 2.	As Above in Stage 2
Stage 5	Potential to novate to the builder for D&C documentation. Fees to be negotiated with successful tenderer.	N/A







# 11.0 CONSULTANTS



# 2.0 project team

Our collaborative approach will naturally facilitate a rich and layered response to the project requirements.  $360^{\circ}$  have been involved in significant multi-residential, public realm, rooftop, residential, cultural and institutional projects, and offer the range of expertise and experience to ensure the successful delivery of an innovative and cost effective design. Previous project experience within the area ensures a strong understanding of the site context, climatic conditions and areas endemic flora, ensuring appropriate plant species selection, maximising the areas natural aesthetic while minimising the sites maintenance requirements.  $360^{\circ}$  will work closely with the consultant team to determine the detailed expression of the design whilst managing all contributing external consultants. Our preferred approach at the design development stage is one of indivisible collaboration, which, as the project progresses, is distilled into discrete parts for pragmatic documentation purposes.

360° has a passionate interest and proven commitment to delivering outstanding podium and residential projects. As a small, design-driven practice, the principal will remain involved with the project from inception to construction.

#### THE PROJECT TEAM IS:

0	Landscape Architect Principal / Team Leader	360° Daniel Baffsky
	Tilliopal/Tealif Leadel	Daniel Dansky
0	Landscape Architect	360∘
	Studio Director (Brisbane) / Senior Landscape Architect	Liam Bowes
0	Landscape Architect	360°
	Studio Director (Sydney) / Senior Landscape Architect	Glenn Dixon
0	Landscape Architect	360°
	Landscape Architect / Horticulture	Karen Ruthve



## project team



#### Daniel Baffsky

BLA (Hons), BEc, RLA

Principal - Design and Project Overview

Daniel is responsible for creative direction and client liaison and directly oversees all aspects of 360% work.

Since establishing 360° in 2001, Daniel has developed the practice into an award-winning practice highly-regarded for innovative design, cultural sensitivity, ecological integrity and commercial efficiency across all project sectors. He has overseen the design of significant leisure, institutional, commercial, residential and public realm projects including Brisbane Riverside Centre, The National Centre of Indigenous Excellence, Redfern, Noumea Waterfront Masterplan, New Caledonia, The Kinghorn Cancer Centre, Sydney, The Kuwaiti Diplomatic Mission Complex, Canberra, Sam Fiszman Park, Bondi Beach, and the M Central - rooftop 'park', Sydney.

Daniel's background in investment banking, marketing and tourism ensures a cross-disciplinary understanding of project dynamics. Daniel is a councillor of the Royal Botanic Gardens Foundation, has been a keynote speaker on the social sustainability benefits of green roofs (2008 Green Roofs Australia Conference and 2010 DesignEx Sydney) and was a member of AlLA's SEPP 65 and RFDC Review Panel.



#### Liam Bowes

BBItEnv (la), GDLA (Hons), RLA

Studio Director (Brisbane), Senior Landscape Architect

As Studio Director of 360°, Liam has been involved in many of the Studios key projects – providing expertise in strategic design, design development and construction detailing, as well as being a key partner in all aspects of running the studio.

Liam is an accomplished landscape architect with experience in both the public and private sectors. Liam began practicing within the public sector where he delivered strategic management initiatives for transit infrastructure projects across Brisbane. In private consultancy, Liam has delivered a broad range of urban projects that encompass the full spectrum of project management, including master plan development through to construction. His graphic communication is evocative and he has a meticulous approach to detailed design.

Liam delivered Riverside Centre Plaza, Brisbane; Plantbank Australian Botanic Gardens, Mt Annan; Nan Tien Institute, Wollongong; EVE, Erskineville; George and Allen, Waterloo; Herbet Smith Freehills Head Office, Sydney, South East Regional Hospital, Bega; and Parkes and Forbes Regional Hospitals. Liam is currently Senior Landscape Architect for Garden Square, Brisbane, The Ville Casino, Townsville; Infinity by Crown Group, Green Square; and Northern Beaches Hospital, Frenchs Forest.

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# project team



Glenn Dixon

BLArch, AMusA, LMusA

Studio Director (Sydney), Senior Landscape Architect

Glenn joined 360° in 2007 and has considerable experience in public projects, multi-residential developments, aged care facilities, school masterplans, sports fields and playgrounds. He has excellent documentation and presentation skills and brings a systematic approach to the coordination and delivery of design packages.

Glenn is a design orientated landscape architect with capability to lead design teams to plan, design and develop landscapes for small to large scale projects. As Studio Director (Sydney), Glenn's role includes responsible for the operation and implementation of various systems to help guide and align 360 Degrees with future directions in technical design practice and delivery.

Glenn delivered the National Centre of Indigenous Excellence, Redfern; St Peters Green, West Chatswood; Zenith Centre Childcare Centre; Chatswood; and Ascham School Redevelopment, Edgecliff; and is currently overseeing Wenona School, North Sydney, Espirit, Mascot; Uptown, Roseville; Avantra, Mascot; and Dexus Phase 4, Rosebery.



Karen Ruthven

BLArch (hons), Dip.Hort

Landscape Architect / Horticulture

Prior to joining 360° in 2013, Karen completed her Diploma in Horticulture and later went on to complete her Bachelors Degree in Landscape Architecture graduating with first class Honours. During her studies, Karen was awarded, The UNSW University Medal in Landscape Architecture and The Harry Howard Prize in Landscape Architecture in recognition of her outstanding academic performance. Karen continues to develop and apply her abilities within professional practice, with proficiency in visual communication and environmental design.

Karen brings to all project teams her extensive horticultural knowledge. She utilises her broad knowledge by adapting to the multiple situations which landscape generates on each project, and applying the appropriate design in response to the unique complexities and sensitivities. Karen is responsible for overseeing all horticultural design within the office, and her success is underpinned by a rigorous attention to detail, passion for delivery of quality landscape, together with excellent organisational skills.

Karen oversaw the planting design at Coogee Pavilion; The Newport; University of Western Sydney Library, Kingswood Campus; Ascham School Redevelopment, Edgecliff; and multiple private residences. Karen is currently the Project Landscape Architect for Phoenix Chippendale and Pavilions Sydney Olympic Park



## 5.0 capability

#### RESOURCES

360° has the following personnel:

1 Principal

2 Studio Directors

2 Senior Landscape Architects

3 Landscape Architects

1 Financial and Office Administrator

360° has offices in the following cities and draw personnel and experience from across all studios to best respond to project requirements;

Sydney (1, 1 Mary's Place Surry Hills, NSW)

Brisbane (22 Petrie Terrace, Brisbane, QLD)

The office operates the following computer *hardware*;

9 workstations (iMac)

A4 / A3 colour / black and white printer / scanner / photocopier

A2 / A1 / A0 colour plotter / scanner

The office has the following software;

Vectorworks AutoCAD Microsoft Word Microsoft Excel Adobe Photoshop Adobe Illustrator Adobe InDesign Adobe Acrobat

Google Sketchup

360° provides high-quality CAD and digital graphic media output for presentation and documentation and we are able to engage artist's sketch and digital representations

360° has key relationships with quality suppliers of materials, plant stock and landscape construction services

360° has Professional Indemnity Insurance with Vero Sum Insured: \$10,000,000 360° has Public Liability Insurance with CGU \$20.000.000 Sum Insured:

360° has Workers' Compensation Insurance with Allianz:

#### REFEREES

The following referees have a full understanding of the skills and performance of 360°.

Planthank John Siemon, Australian Botanic Gardens & Domain Trust

+61 2 4634 7969 Nan Tien Institute Greg Charmichael, APP +61 2 9957 6211

The Kinghorn Cancer Centre Tony Carlton, Capital Insight

+61 2 9959 2637

The Hermitage, IVY Justin Hemmes, Merivale

+61 2 9240 3000

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# 6.0 experience

#### CITY - PUBLIC REALM / URBAN DESIGN / MASTERPLAN

- o MLC Centre Redevelopment, Sydney (in association with Woods Bagot and Seidler Associates)
- o 44 Market Street, Sydney (in association with Woods Bagot)
- o Riverside Centre Redevelopment, Brisbane (in association with Seidler Associates and KPDO)
- Noumea 2025 Waterfront Masterplan (in association with Woods Bagot)
- o Sam Fiszman Park, Bondi Beach (in association with McGregor Westlake)
- o M Central, Ultimo (in association with marchese+partners & Dale Jones Evans)
- o Mighty High, Cockatoo Island, Sydney (in association with Richard Goodwin Architects)
- o National Centre of Indigenous Excellence (in association with Tonkin Zulaikha Greer)
- o Glebe Town Hall, Glebe (in association with Tonkin Zulaikha Greer)

#### WORKING - WORKPLACE / COMMERCIAL / RETAIL

- o **Capita Building**, Sydney (in association with Harry Seidler & Associates)
- MLC Centre Redevelopment, Sydney (in association with Woods Bagot and Seidler Associates)
- Riverside Centre Redevelopment, Brisbane (in association with Seidler Associates and KPDO)
- o Greenhills Shopping Centre, Maitland (in association with Stockland)
- o Herbert Smith Freehills Head Office, Sydney (in association with BVN and Lend Lease)
- o Embassy of Kuwait, Canberra (in association with Woods Bagot)
- Woolcock Institute of Medical Research, Glebe (in association with Fox Johnston)
- o Flour Mills Studios, Newtown (in association with Allen Jack + Cottier)

#### LEARNING - INSTITUTIONAL / CULTURAL / CAMPUS

- Nan Tien Cultural Institute, International Buddhist Association Australia, Wollongong (in association with Woods Bagot)
- University of Sydney Business School Masterplan (in association with Woods Bagot)
- o National Centre of Indigenous Excellence, Sydney (in association with Tonkin Zulaikha Greer)
- o Ascham School, Edgecliff (in association with BVN)
- o University of Western Sydney Library, Penrith (in association with BVN)
- o Plantbank, Royal Botanic Gardens, Mount Annan (in association with BVN)
- Wenona Girls School, North Sydney (in association with Tonkin Zulaikha Greer)
- CBA Child Care Centre, Sydney (in association with Davenport Campbell)
- o St Lukes Grammar, Dee Why (in association with Tonkin Zulaikha Greer)
- Joy Yeo Performing Arts Centre, Roseville (in association with Tonkin Zulaikha Greer)

# experience

#### LIVING - RESIDENTIAL / GARDENS

- o M Central, Ultimo (in association with marchese+partners & Dale Jones Evans)
- o Bay Street, Botany (in association with BVN)
- o **REVY**, Darling Island Pyrmont (in association with PTW)
- o SKYE by Crown, North Sydney (in association with Koichi Takada Architects)
- o 161 Clarence St, Sydney (in association with Koichi Takada Architects)
- o Palmerston Cres, South Melbourne (in association with Elenberg Fraser)
- o **627 Chapel St**, South Yarra (in association with Elenberg Fraser)
- o Mezzo, Glebe (in association with Chrofi and KannFinch)
- o Anzac Parade, Kensington (in association with Fox Johnston)
- o Small House, Surry Hills (in association with Domenic Alvaro)

#### **HEALING - HEALTH / AGED CARE**

- o South East Regional Hospital, Bega, NSW (in association with BVN)
- o Mellenium Institute, Westmead (in association with BVN)
- o The Kinghorn Cancer Centre, Darlinghurst (in association with BVN)
- o Sydney Childrens Hospital-CAMHS, Randwick (in association with BVN)
- o Prince of Wales Mental Health Intensive Care Unit, Randwick (in association with BVN)
- Woy Woy Sub-Acute Rehabilitaion Centre (in association with Woods Bagot)
   Nepean Mental Health Unit, Penrith (in association with Woods Bagot)
- o Lachlan Health Facility, Parkes & Forbes (in association with Rice Daubney)
- o RPA North West Precinct Redevelopment, Camperdown (in association with Peck von Hartel)

#### LEISURE - HOTELS / RESORTS / BARS

- o IVY, Sydney (in association with Woods Bagot)
- o The Newport, Sydney (in association with Akin Creative and Merivale)
- o Coogee Pavillion, Sydney (in association with Akin Creative and Merivale)
- o Hingarae, New Zealand (in association with X.Pace & Isthmus Group)
- o Finolhoss Island, Maldives (in association with Akin Creative)
- The Beresford Hotel, Sydney (in association with Thomas Jacobsen and Merivale)
- o Harbour Rocks Hotel, The Rocks, Sydney (in association with SJB)
- Watsons Bay Hotel, Watsons Bay (in association with Morrison Partners)
- Golden Sheaf Double Ray (in association with Solotel)

