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AUSTRALIAN MINING CAMPS

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INVESTING IN QUALITY

Determining the development of village accommodation that supports worker productivity

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“DREAM IT. BE IT. DO IT!”

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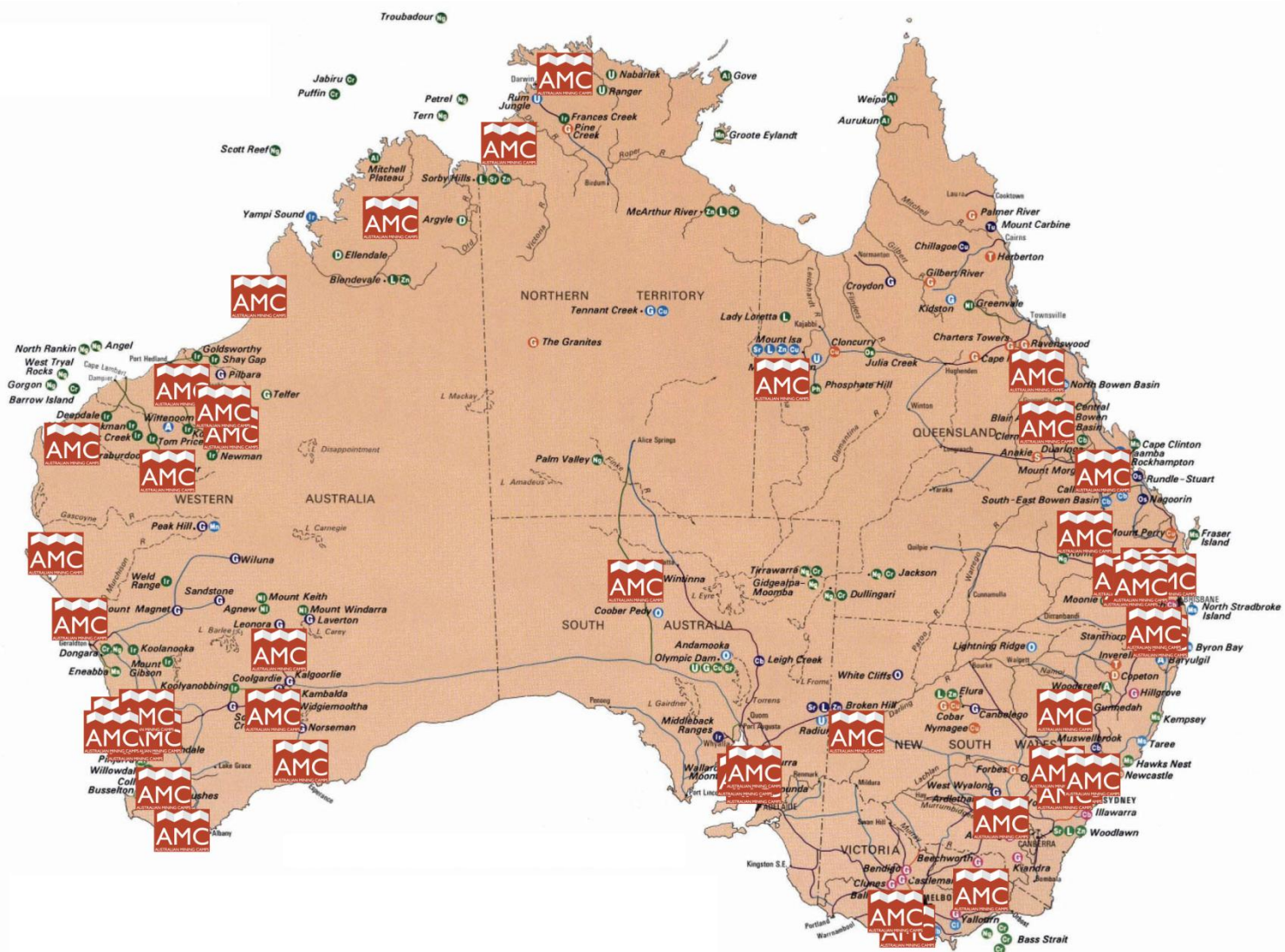
Contents

- Mission Statement
- Organisational Structure/Principals
- State Growth Outlook 2013
- Codes
- Essential Requirements to Ensure Happiness & Comfort
- Improving Camp Layout
- Why Spending more will save you in the long run
- A $20 Million Plus Kitchen

AMC Team Collective Projects



Mission Statement

To be the leaders in providing a complete one-stop project management service in building healthy and robust communities. This is achieved through the integration of high-quality affordable housing products built in Australia to Australian standards, delivered on time and on budget.

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BOARD OF DIRECTORS

Products
- Mobile Accommodation
- Affordable Housing
- Remote Housing
- Indigenous Crisis Housing
- Mobile Kitchens
- Waste Disposal Centres

Manufacturing Supply
- Mining Villages
- Transportable Housing
- Transportable Kitchens
- Remote Housing
- Aged Care + Retirement Villages
- Multi Level Hotel Motel Accommodation
- General Housing

Mining Village Solutions
- Accommodation
- Recreational Activities
- Refurbishment
- Waste Disposal

Services
- Lead Supplier
- Project Management
- Quality Control
- Risk Systems Management
- Indigenous Solutions
- Environmental Solutions
- Ongoing Village Management

Administration
- Accounting & Finance
- Project Reporting
- Legal
- Marketing Products and Services Review

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Housing Solutions

- Mining Villages
- Aged Care + Retirement Villages
- Crisis Housing
- Affordable Housing
- Indigenous Communities
- Multi Level Hotel Motels/Accommodation

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Alan Marshall - CEO

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Tony McDowell - Director

Troy Figliomeni - Director

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

Infrastructure

"Establishing appropriate settings for infrastructure investment will support future growth in the sector."

Aviation

State Overview

- Western Australia's airports have experienced significant growth in demand over the last decade.
- Passenger volumes at Perth Airport grew from 4.9 million in 2001 to 11.3 million in 2011 - a growth rate of 9 % p/a.
- Port Hedland, Newman, Karratha and Paraburdoo have averaged growth over 16 % p/a - meaning passenger volumes have more than quadrupled since 2001.
- Shift patterns are largely based on safety (fatigue management) and lifestyle preferences.
- Having staff fly outside of early morning and evening periods increases the cost of doing business for the resources sector.
- Dealing with the peak capacity problem at Perth Airport requires shifting some traffic outside of the peak, capacity expansion through improving efficiency of existing infrastructure, and possibly through an additional third runway.
- Regional airport capacity constraints tend to be in terminal and apron infrastructure.
- Airspace is a constraining factor in the Perth region.

Implications and Opportunities

- Reflecting the demand from FIFO traffic, Perth Airport is experiencing a bottleneck during peak hours.
- There is likely to be greater pressure on airports as the operational workforce increases – FIFO rosters become shorter resulting in more flights.

Ports

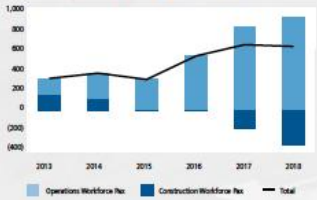
State Overview

- Bulk mineral export facilities are operating at capacity.
- Total trade volume through Port Authority Ports has more than doubled from 200Mt in 2002 to 428Mt in 2011.
- This growth was driven almost entirely by export volumes.
- Port Hedland and Dampier are the dominant export ports, while Fremantle accounts for around 70% of State imports (by volume).

Implications and Opportunities

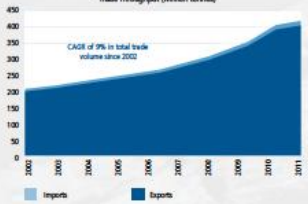
- There is not a clear pathway to deliver new port facilities at Anketell and Esperance. These developments are required to facilitate resource developments in the Pilbara, Yilgarn and Mid West.
- Production growth plans rely on successfully executing infrastructure plans.

Perth Airport Usage - Mining and Energy Workforce
(Thousands of Incremental PAX, 2012 - 2018, PAX)



Source: CME Airports Study October 2012

Port Authority Ports - Total Trade Volumes
Trade Throughput (Million tonnes)



Source: WA Ports Handbook 2011

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

Roads

State Overview

- The Western Australian Regional Freight Transport Network Plan will evaluate investments in key corridors to address the increasing number of oversize loads.

Implications and Opportunities

- High wide loads remain a challenge for the State road network.
- Improved port facilities in the Pilbara may facilitate a move from road transport to coastal shipping for some loads.
- The Oversize Overmass "One Stop Shop" is streamlining the permit approval process.

Rail

State Overview

- The majority of the State's mineral exports are carried to ports by privately owned railways in the Pilbara.

Implications and Opportunities

- Continued growth in exports will require additional rail capacity, and the protection of rail corridors for future growth.

Social Infrastructure

State Overview

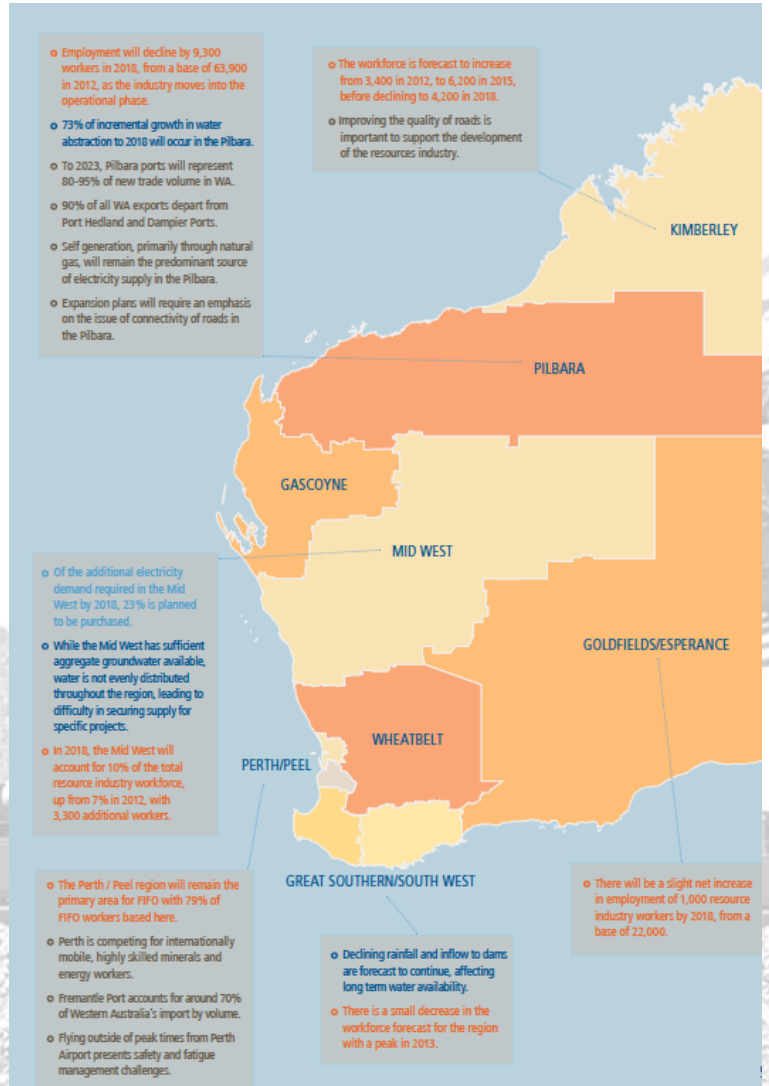
- Perth is currently competing for internationally mobile, highly skilled minerals and energy workers - these workers are able to choose from a wide range of international resource hubs.
- Liveability is a key determinant of Western Australia's ability to attract an internationally mobile workforce, which depends, in part, on the cost of living and amenity in key regional centres.
- Career factors are a major motivator to ensuring a city is an attractive place to live or move to. Safety, culture, education, and public infrastructure also play a role.
- A mismatch between demand and supply of land has resulted in Pilbara property prices and rents increasing significantly.
- This trend is replicated in the rental prices, where the average weekly rent for a one bedroom house exceeds $1,200 in Port Hedland and Karratha, compared to around $350 in Perth.

Implications and Opportunities

- While Perth scores well on many liveability factors, culture and the incidence of crime are areas for potential improvement.
- Housing affordability and town amenity, including retail trading hours, are critical enablers to maintaining a residential operation workforce. Housing costs in resource sector communities continue to be significantly higher than Perth.

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME



STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

People

"The changing composition of workforce requirements from construction to operations will shift the skills required for mineral and energy projects."

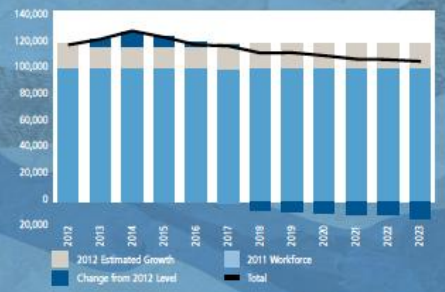
State Overview

- The workforce required for growth plans in the resources sector is projected to peak at 125,000 people in 2014 - around 9,000 above the 2012 workforce of 116,000.
- After the peak in 2014, employment will slowly reduce as the current wave of construction activity gives way to operations. From 2018, the workforce will reduce to below 2012 levels.
- Driven by the completion of construction of a number of major projects, the construction workforce will peak in 2014 before declining to 24,000 below 2012 levels in 2018.
- As major projects commence operation, the operating workforce will increase strongly to 2018, with an additional 19,000 operational staff required.

High Growth Regions

- The area of highest labour growth to 2018 is the Mid West, followed by the Kimberley.
- The Mid West will require an additional 4,800 workers by 2014, 3,600 of which will be new construction workers. This will decline to 3,300 above 2012 levels by 2018.
- The workforce in the Kimberley is forecast to increase from 3,400 workers in 2012 to 6,200 in 2015 before declining to 4,200 in 2018.
- The Pilbara is forecast to require 9,000 fewer workers in 2018. This fall comprises a reduction of 23,000 construction workers, partially offset by 14,000 additional operational workers.
- An additional 5,500 FIFO workers will be required from Perth/Peel in 2014, before a decline to 5,600 less than 2012 levels by 2018.

Minerals and Energy Workforce Outlook
(Headcount)



Source: State Growth Outlook study; Department of Mines and Petroleum; Pilbara Population and Employment Study 2012

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

Implications and Opportunities

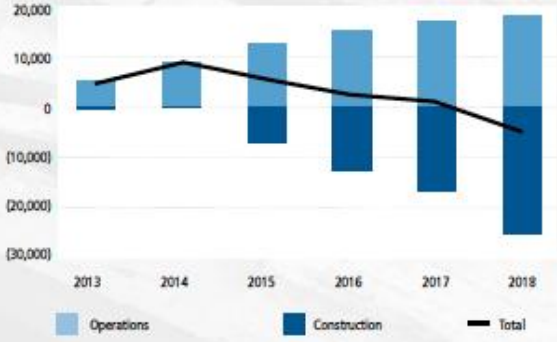
Growth and Competitiveness

- The changing nature of demand from construction to operations highlights the importance of appropriate skills rather than aggregate labour numbers.
- There is a need to continue to promote increased interstate labour agility as a means of meeting skilled labour demand.
- Drawing on international workers with the required skills will be important in maintaining growth in the sector.
- Opportunities to increase workforce participation, focusing on under-represented groups such as Indigenous Australians and women, should be continued.
- The reduced construction workforce requirements in the resources sector will increase the availability of workers with construction skills for other sectors.

Environment and Liveability

- Population increases will place increasing demands on social and community infrastructure in Perth and regional towns, requiring advanced planning and investment.
- To attract and retain skilled and highly mobile resource sector workers, it is important that efforts continue to improve the liveability and vibrancy of Perth and key regional centres.

New Workforce Breakdown
(Headcount, Increment above 2012 level)



Source: State Growth Outlook study; Pilbara Population and Employment Study 2012

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

Energy

"Energy planning needs to improve to ensure supply meets demand"

Electricity

State Overview

- The estimated State electricity growth rate over the period to 2023 is 5.6% p/a; substantially higher than the long-term electricity growth forecast from the Bureau of Resources and Energy Economics (BREE) (1.9% to 2035).
- Electricity consumption in Western Australia could increase approximately 52% by 2018, driven by projects in the resources sector.
- Resource sector electricity demand to 2018 is projected to increase by the equivalent of 2.7 GW of generation capacity.
- The majority of demand is expected to be met through self generation (95%) and fuelled by natural gas (94%).

High Growth Regions

- The majority of new electricity generation required by the sector in 2018 is for projects in the Pilbara region (70%) and the Mid West (15%).
- Incremental electricity demand in the Pilbara, due to the resources sector, is expected to reach almost 9,700 GWh p/a by 2018, predominantly met by gas fired self-generation.
- Upcoming minerals and energy projects in the Mid West region are likely to require 2,100 GWh p/a of additional electricity by 2018, around 23% of which is likely to be purchased.

Network Outlook

- The dominance of self generated supply for the resources sector in the Pilbara is indicative of the absence of networked solutions in the North West Interconnected System.
- Completion of the Mid West Energy Project will increase capacity to meet the demands of the resources sector in the Mid West.
- The South West Interconnected System will require 1000MW of additional generation capacity over the next decade. 95 MW of additional capacity is forecast to be required for the resources sector by 2018, which is within existing generation capacity.

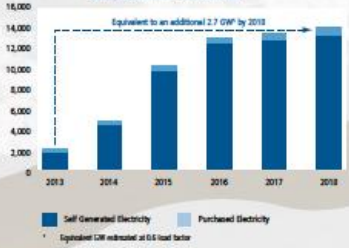
Forecast Total Electricity Consumption

(GWh p.a.)

Source: State Growth Outlook study: Bureau of Resources and Energy Economics

Forecast Minerals and Energy Electricity Demand

(GWh p.a., Increment above 2012 level)



Source: State Growth Outlook study

STATE GROWTH OUTLOOK IN WA 2013

Courtesy WA CME

Water

"Increasing water scarcity will stimulate demand for a water market but legislative changes are required to develop an efficient water market in the State."

State Overview

- Total water abstraction in Western Australia is forecast to increase at an annual growth rate of 3.0%, from 1,900 GL in 2012 to 2,640 GL in 2023.
- Incremental resources sector water use is projected to reach 400 GL above the 2012 levels by 2018, totalling 980GL.
- Around 180 GL of incremental dewatering is expected by 2018, 43% higher than in 2012, driven by increasing incidence of below water table mining.
- Almost 20% of new resource industry dewatering in 2018 would be re-injected into aquifers and 14% supplied to third parties.

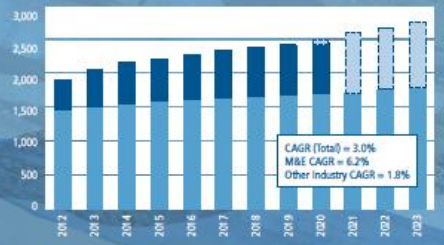
High Growth Regions

- The majority of new resource sector water use in the State will be located in the Pilbara, with water use more than doubling from 205 GL in 2012 to 420 GL in 2018.
- The Mid West is expected to experience significant growth in resource sector water use from 52 GL in 2012 to 93 GL in 2018.

Water Availability

- Increasing water abstraction will place pressure on allocation limits in some catchments.
- While groundwater allocation limits suggest room for growth in many regions, localised water constraints may restrain water consumption.
- Significant increases in dewatering creates an environment of water surplus in some areas, requiring operational and environmental management.

Forecast Total Water Use in WA
(GL p.a.)



Source: State Growth Outlook study; Department of Water

CODES

ACTS

Work Health and Safety Codes of Practice 2012

The previous act was **replaced on 3/12/12**

- First aid in the workplace
- Construction work
- Preventing falls in housing construction
- Managing electrical risks in the workplace
- Managing risks of hazardous chemicals in the workplace
- Managing the risks of plant in the workplace
- Welding processes
- Excavation work
- Demolition work
- Safe design of structures
- Spray painting and powder coating
- Abrasive blasting

Australian Building Codes Board

Australian Building Codes Board (ABCB)

The **National Construction Code of Australia (NCC)** (previously the BCA - Building Code of Australia) is published, maintained and updated by the Australian Building Codes Board (ABCB).

Access the NCC **here**.

The National Construction Code (NCC) is an initiative of the Council of Australian Governments (COAG) developed to incorporate all on-site construction requirements into a single code. The NCC comprises the Building Code of Australia (BCA), Volume One and Two; and the Plumbing Code of Australia (PCA), as Volume Three.

Volume One: pertains primarily to Class 2 to 9 buildings.

Volume Two: pertains primarily to Class 1 and 10 buildings.

Volume Three: pertains primarily to plumbing and drainage associated with all classes of buildings.

The **Australian Building Codes Board** (ABCB) is a joint initiative of all levels of Australian Government via the Council of Australian Governments (COAG).

The Board was established in an inter-government agreement signed by the Australian Government and State and Territory Ministers responsible for building regulatory matters on 1 March 1994 and reaffirmed by Ministers in April 2006.

The ABCS's Mission

- The Australian Building Codes Board addresses issues relating to safety, health, amenity and sustainability in the design and performance of buildings through the National Construction Code (NCC) Series, and the development of effective regulatory systems and appropriate non-regulatory solutions.

Specifically, the ABCB:

- maintains and updates the National Construction Code of Australia (NCC);
- provides the community with cost-effective and efficient regulations to aid the design, construction and use of buildings throughout Australia;
- responds to government and industry calls for minimum necessary regulation to facilitate, not inhibit, business;
- supports the Council of Australian Government (COAG) in the pursuit of its National Reform Agenda that aims to address issues relating to climate change, human capital, competition and regulatory reforms to lift Australia's prosperity.

Australian Building Codes Board

FOR REVIEW – Australian Government Publication

SOCIAL RESPONSIBILITY DEVELOPING COUNTRIES

www.ret.gov.au/resources/Documents/LPSDP/DEPRES.pdf

O/S Workers Accommodation Processes and Standards-BASIC

Box 3 - Singapore National Environment Agency - Code of Practice on Environmental Health, 2005

The following guidelines shall be used for stand-alone dormitories.

- If the dormitory does not provide a separate space for cupboards/locker rooms, the minimum room space shall be 4 square metres per person (assuming a height of 2.4m).
- If the dormitory provides a separate space for cupboards/locker rooms, the minimum room space shall be 3 square metres per person (assuming a height of 2.4m).
- The room shall be adequately ventilated and lit.
- Adequate number of toilets and sanitary fittings shall be provided (1 toilet, 1 hand wash basin, 1 urinal and 1 bathroom with bench per 15 male workers).
- Where cooking area is to be provided in the dormitories, such provisions shall be in accordance with the requirements stipulated under Section 2.4 of the latest edition of Singapore Standard CP 102.

The above Singapore guidelines are mentioned as an example of "soft" regulations only. The standards described above may be inappropriate in different environments. Other standards apply in other countries.

O/S Workers Accommodation Processes and Standards-HIGH

Box 8 - Examples of social/leisure facilities

In Qatar there is a newly built 170-hectare complex which accommodates contractors and more than 35,000 workers for a project run by a major oil company. At the heart of this complex, the recreation area includes extensive sport facilities, a safety-training centre, an outdoor cinema and a park. The purpose of those facilities goes beyond providing adequate accommodation to the large numbers of contractors and workers on this project but is designed to provide the same level of services as a small town. The accommodation complex has a mayor, as well as a dedicated welfare team which is responsible for the workers' welfare, cultural festivals and also acts as the community's advocates.

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THE“MOTEL” (Interchangeable Living Quarters)
Vs
“HOME” (Own living space) for FIFO/DIDO Workers

Own Space

- No ‘hot-bedding’.
- Not having to clear things out each time.
- Able to have personal effects, family photos, create ‘homely’ feeling.
- Create own environment and comforts.
- Develop a certain habitat, ambience that does not keep changing.
- Establish an energy that works for you.
- A sense of belonging
- Creates a positive culture

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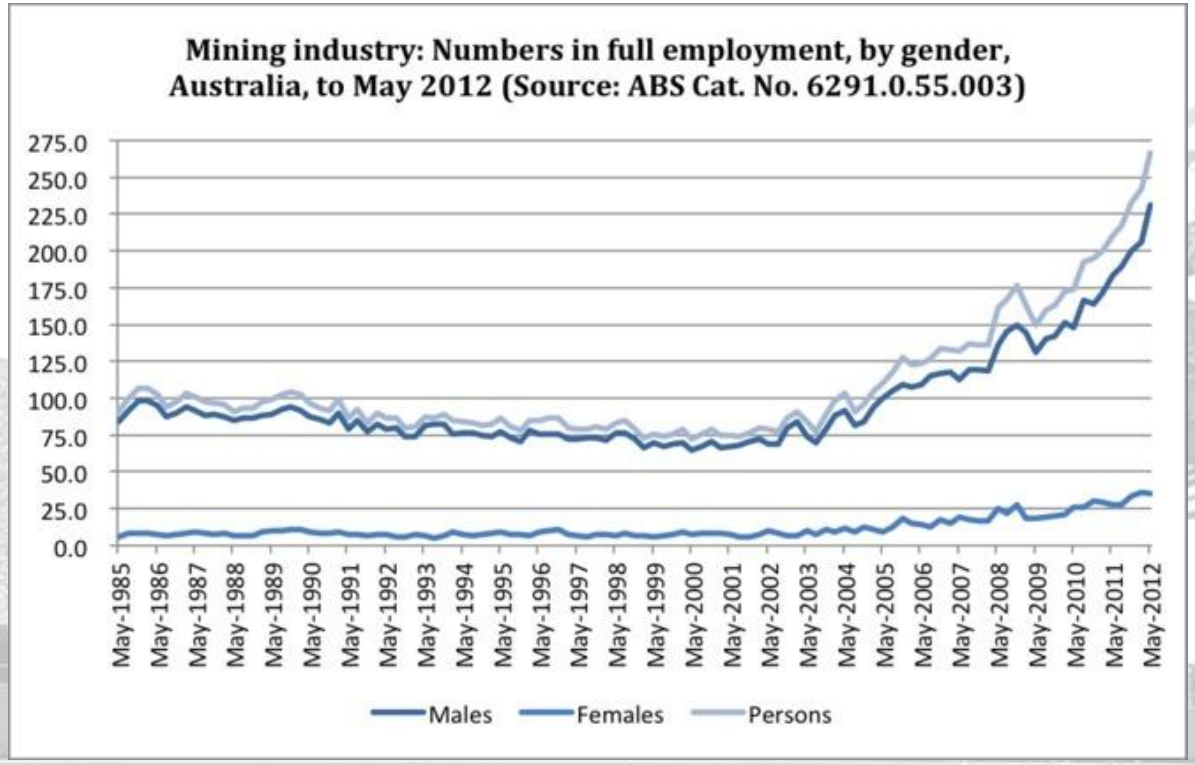
ESSENTIAL REQUIREMENTS TO ENSURE COMFORT & HAPPINESS OF YOUR WORKFORCE

Despite wealth for toil, FIFO workers find themselves sick and tired

- After fatigue is taken into account useable time off is less than 75% and sometimes as little as 50%.
- “The large salaries are not a substitute for slowly killing yourself, your family and your marriage” Statement by WA Worker
- Continually rotating shifts are hard on the human immune system.
- Over 20% lured by “the big money” drop out within the first few months. They simply can’t handle the pace.
- “I’ve never been so sick as I have over the past 5 years, since I started FIFO”. Statement by WA Worker

Courtesy: Griffith University

The Issues – Rapid Growth Courtesy WA CME



Mining employment has more than doubled over the past five years. The FIFO/DIDO growth rate is even greater because most workers are now contractors and essentially all contractors are NRWs.

Attrition

SIX-FIGURE salaries aren't enough to stop one in three fly-in, fly-out workers from quitting within a year at mine sites. A parliamentary hearing into the industry will be told.

Courtesy Dr Alison F. McIntosh
Senior Research Associate
School of Justice, Faculty of Law
Queensland University of Technology

Situation of Many Existing Villages

- Initial camps were designed for a shorter lifespan.
- Camp requirements have undergone a significant evolution. Current old style donga accommodation both local and imported is sub standard and no longer acceptable.
- The creation of sustainable communities both from a human health perspective and an environmental perspective has become paramount.
- Quality and longevity have sometimes been sacrificed for haste, due to demand and time constraints. The negative impact of this is now being felt.
- Many of the early solutions simply do not fulfill the new village style requirements and transformation is needed.

What an integrated work related, health, wellbeing and safety approach looks like

Awareness and knowledge create a positive friendly living and workplace culture. Includes strategies designed to raise awareness and increase knowledge about health issues and work health initiatives on offer within the organisation and in the community.

Environmental

Include activities that lead to the establishment of a work environment and culture that supports healthy choices and healthy behaviours. Things as simple as a community garden / vegetable garden for worker involvement all of which go towards creating a positive friendly village culture

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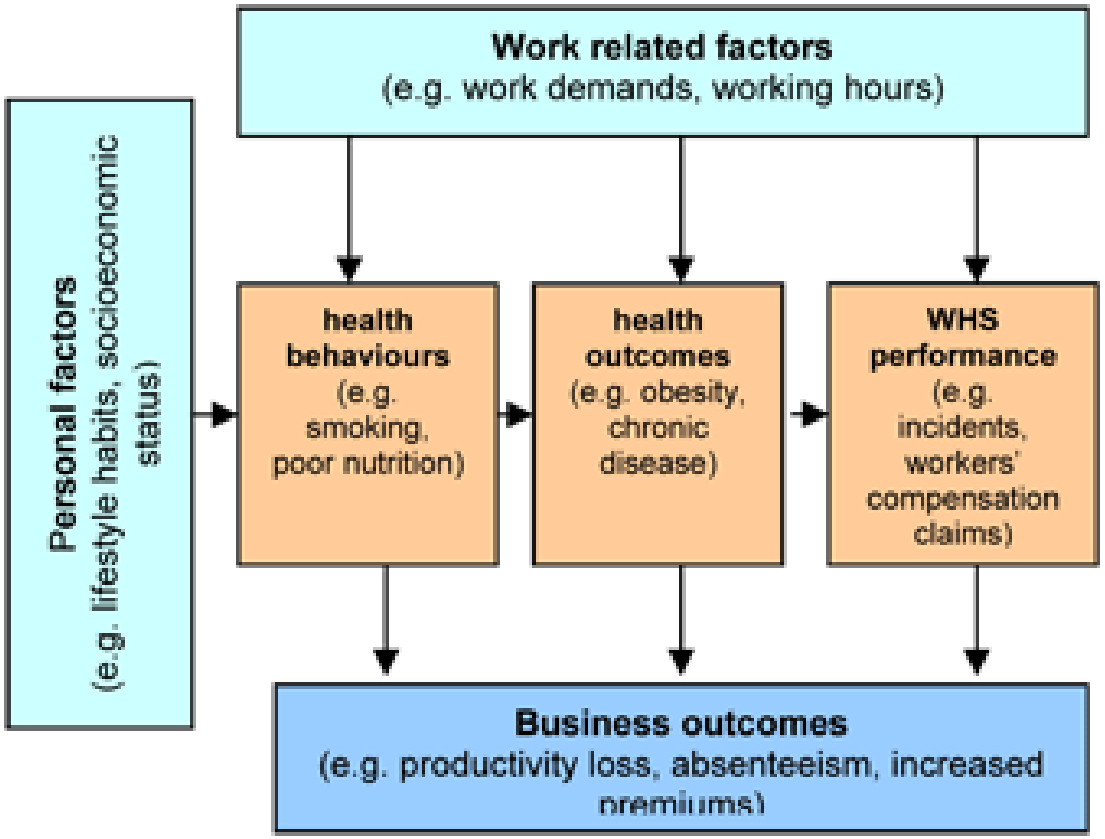
Behavioural and social

Provide classes on Marriage guidance for FIFO and DIDO workers

Include strategies that help workers develop skills that support and encourage healthy behaviours in the workplace and provide activities that specifically support management of these risk factors.

Create a positive friendly village culture


Work related factors
(e.g. work demands, working hours)
Personal factors
(e.g. lifestyle habits, socioeconomic status)
health behaviours
(e.g. smoking, poor nutrition)
health outcomes
(e.g. obesity, chronic disease)
WHS performance
(e.g. incidents, workers' compensation claims)
Business outcomes
(e.g. productivity loss, absenteeism, increased premiums)

Why is an Integrated Healthy Workforce Important?

- maintaining a healthy and happy home life which effects home and work behaviour
- reducing illness and injury
- limiting the risks to workers' health and safety
- retaining valuable skills
- enhancing productivity
- strengthening business outcomes

The Whole Picture

- Health and happiness at work and home
- A sense of belonging
- Create a positive village culture
- The Surrounding Community
- The Local Environs
- Security and Protection
- Accessibility
- Lifestyle (Amenities, Facilities, Space, Recreation, Comfort, Rest, Connection, Sense of Belonging)

Comfort & Happiness - quotation

Based on available research into the mining industry, and from my own professional experience dealing first hand with these key issues, it is evident that the living environment of individuals in a group setting can shape the culture and cohesion of a group.

An environment that is welcoming, comfortable, provides a sanctuary and opportunity for social interaction can improve an individual's mental health. It is well recognised that social interaction is second to exercise as one of the most likely protective factors against stress.

Naomi Armitage
Director of Gryphon Psychology

A testimony and example of what we are trying to overcome

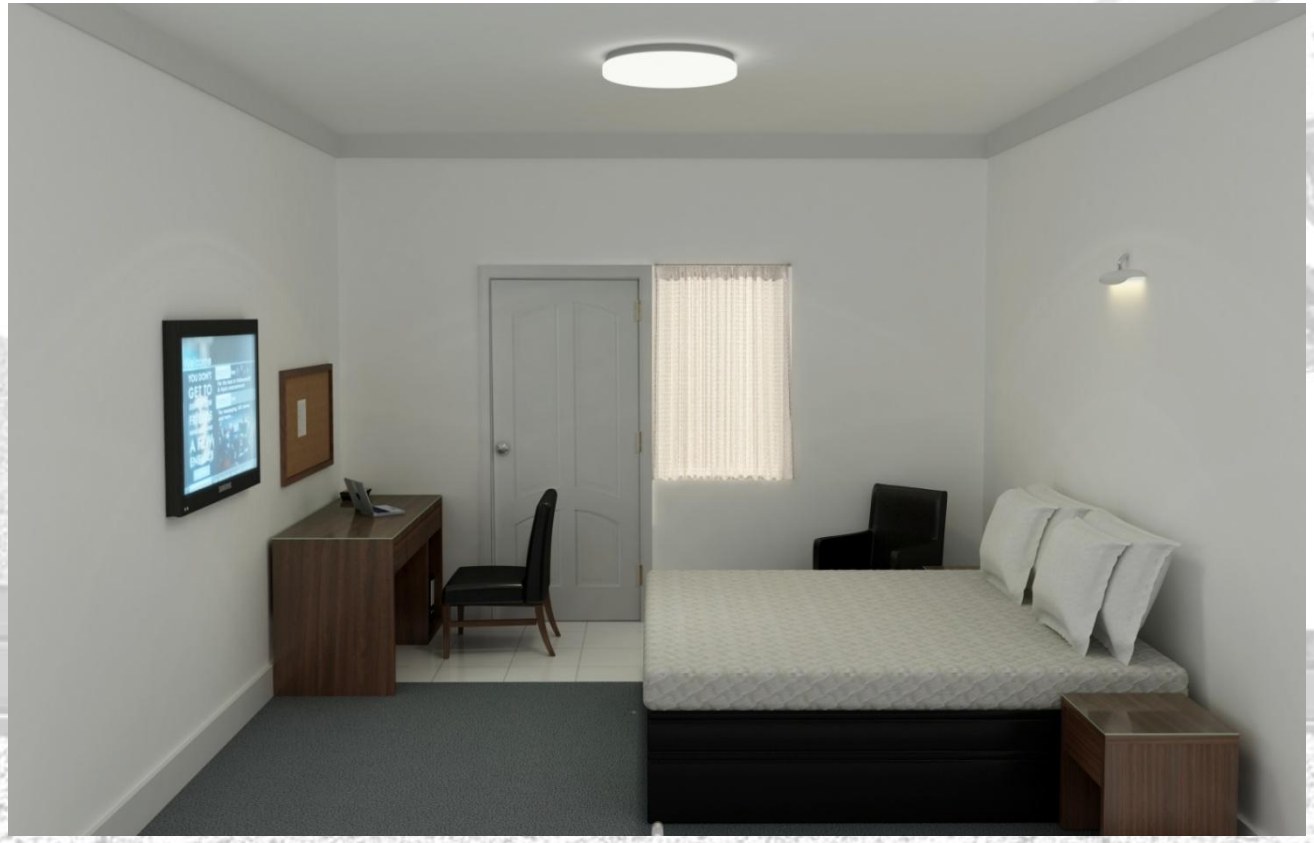
- The average rent for a house in Karratha is already over $1,500, with prices slated to increase by a further seven per cent this year.
- “There's not a great deal to it - as you can see, I've got a bed on one side and a TV on the other," he says.”
- "Personally I'm not going to spend $1,500 a week, but if it was cheaper I'd move into town,.”
- "It'd also be nice to have bigger rooms and more facilities around the camp.”.
- Courtesy ABC and U Tube

Current style accommodation showing Bed and Bar fridge. Is there evidence of a contented home life here?

Current basic separate ensuite – toilet and shower. Friendly? Inviting?

Motel style lockers e.g. 1 ½ lockers each in shared room. Limited space. Unfriendly. Uninviting.

ALTERNATIVE Options to consider:
Spacious double room can accommodate spouse/couples and provide adjoining lounge area. Possible spouse visit mid term?



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Laundry Unit Clean and tidy

Recreational Facilities

BBQ Area to promote group activities and create positive village culture

Quality Sports Area to promote group activities and positive village culture

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Quality Pool Areas to promote group water sport activities and positive village culture

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Gymnasium with quality equipment and integrate with education classes on health and well being including stress management at work and home

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Bar – Quality Entertainment Areas

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Outside Bar Areas – clean well constructed

Shielded urinals provide privacy

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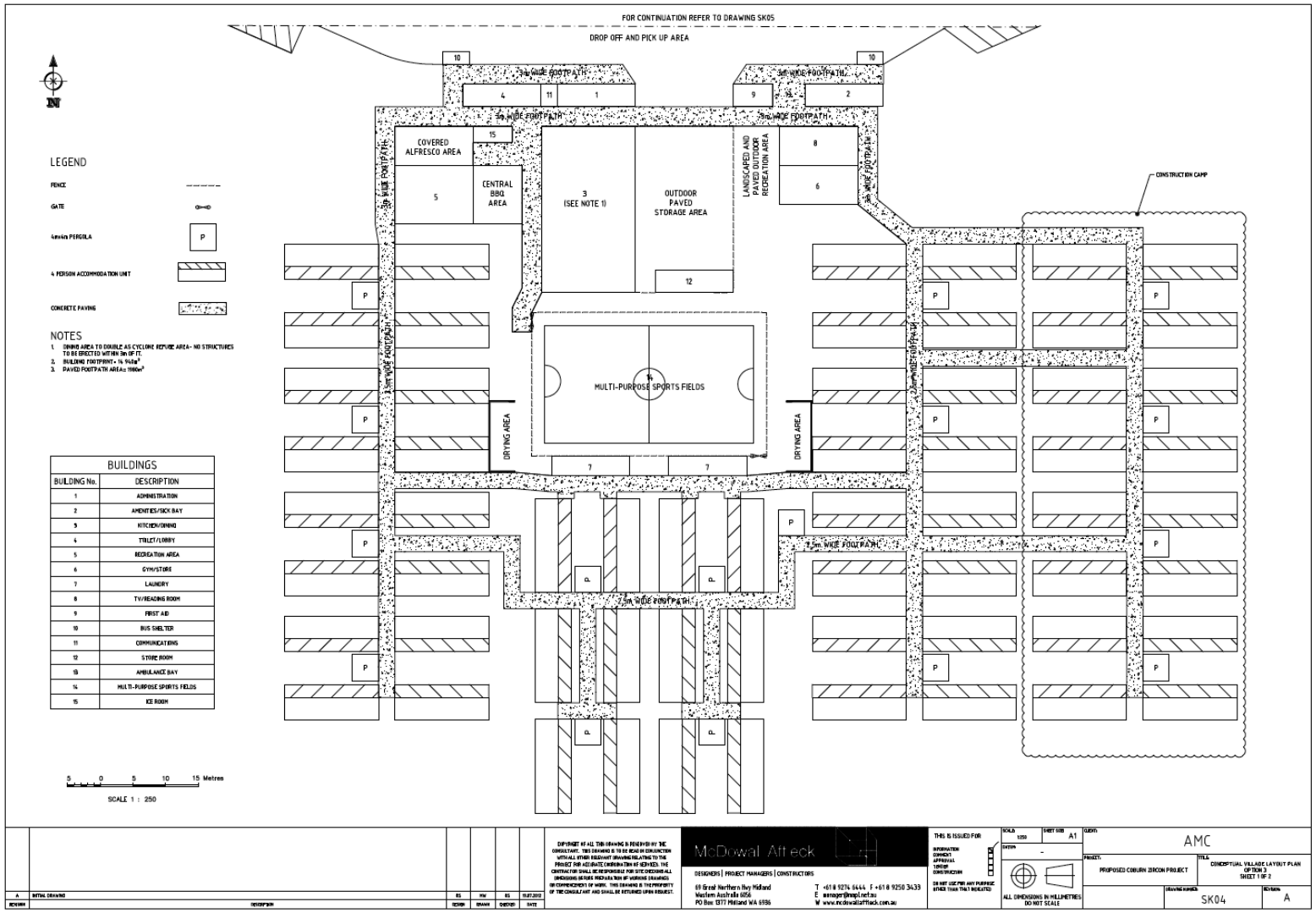
HOW TO IMPROVE THE LAYOUT OF THE CAMP TO LIMIT FATIGUE AFFECTING THE WORKFORCE

- Covered walkways particularly between office/mess/laundry/ice rooms/bar and accommodation.
- Keep Parking isolated and must be ONE-WAY traffic and REVERSE PARKING to avoid injury.
- Excellent recreational options to cover all sports and gymnasium.
- Counseling availability
- Classes in communication re marriage and managing the FIFO Lifestyle.
- Understanding the routine of the Family and their situation when going back home.
- trees along pathways and throughout the Village plus the promotion of a communal garden
- Calming Surroundings
- Create a positive culture

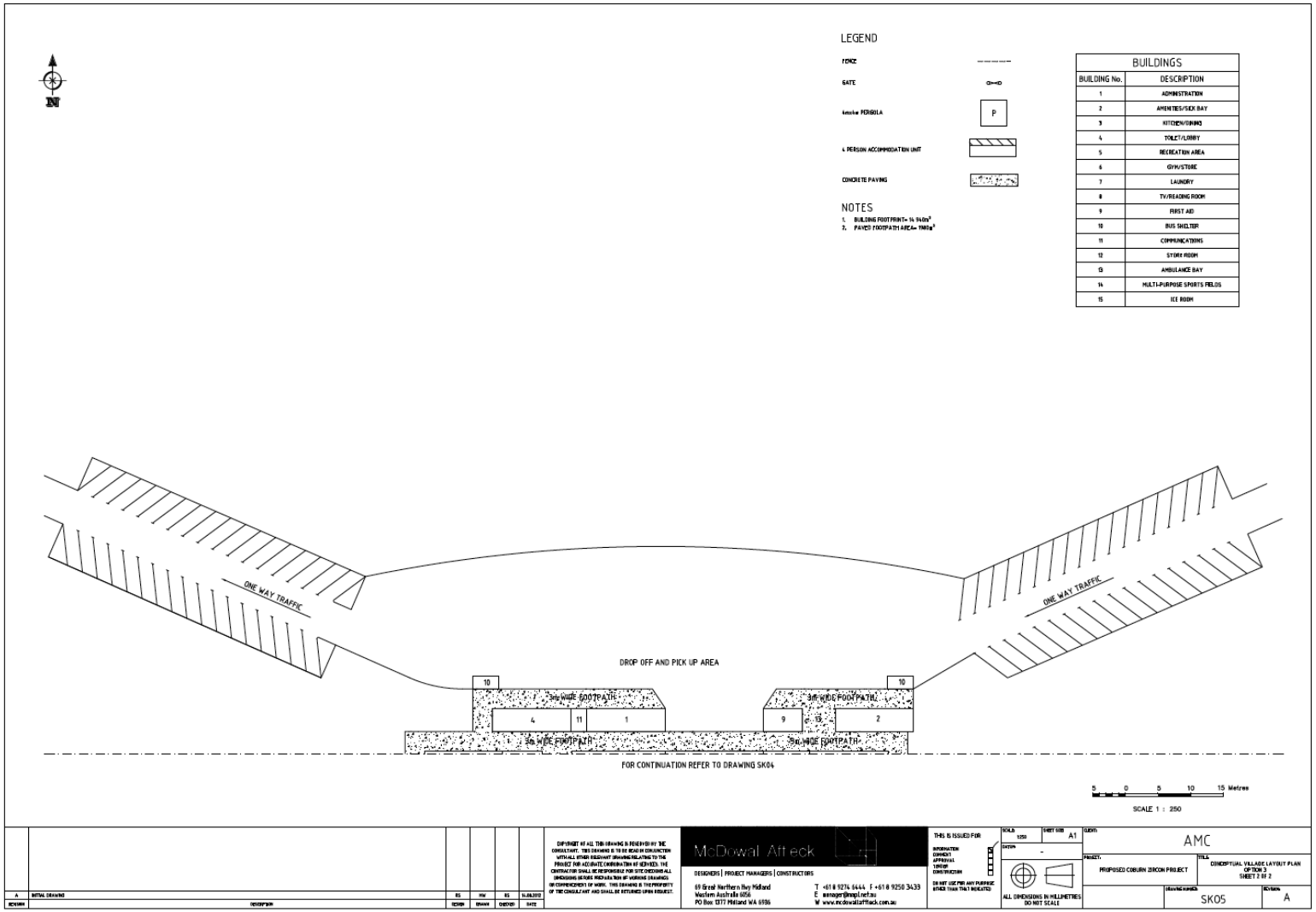
Wide double foot paths for ease of access and tree planting for calming/cooling effect

Calming surroundings

Camp Architecture-Typical layout



DIRECTIONAL ONE WAY TRAFFIC-REVERSE PARKING FEEDS TO ADMINISTRATION CHECK IN



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THE ULTIMATE VILLAGE DESIGN CONCEPT

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INDOOR FACILITIES

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Environmentally sustainable communities with minimal footprint

- Recyclable cutlery made of 100 per cent corn starch.
- Compostable cups
- Low flow faucets
- Solar Passive Design
- Source Local Products
- Complete Waste Management Removal System
- Allow for more vegetation, native flora and vertical gardens, to reduce overall temperature at camp sites and reduce worker's anxiety.
- A vegetable garden would provide post-work activities to encourage participation, which decreases social isolation and depression.
- Public open spaces may reduce the effects of Sick Building Syndrome, which increases productivity of workers

Waste Disposal and Recycling Examples

FROM THIS

TO THIS

MOSTLY **FREE** FREIGHT OF RECYCLABLE MATERIAL BACK TO RECYCLING DEPOTS

ALL MONEY GENERATED BEING DONATED TO CHARITIES SUCH AS;

PRINCESS MARGARET HOSPITAL foundation

Royal Flying Doctor Service
The furthest corner. The finest care.

Over $750,000 Raised for charity to date

Technical Data – GB200 Multi-chamber Baler

GB200 MULTI CHAMBER BALER SYSTEM

Model	GB200 Multi (Empty Chamber)	
Chamber Qty	4	
Load	200 kg	
Coordinates	X= 815 mm	Z= 401.5 mm
Width	1630	
Depth	798	
Z-CG	368.140169 kg	46.13%

Total Weight	3406.46 kg
Rear area	91505.3 mm²
Front area	91505.3 mm²

Average	Weight	Area	Pressure
Rear	1571.49719 kg	3660.21 cm²	0.429 kg/cm²
Front	1834.96281 kg	3660.21 cm²	0.501 kg/cm²

Single Chamber Foot Print

Technical Data – GB200 Multi-chamber Baler

GB200 MULTI CHAMBER BALER SYSTEM

Load	564.75 kg	337.97 kg	337.97 kg	337.97 kg
Area	915.1 cm²	915.1 cm²	915.1 cm²	915.1 cm²
Pressure	0.617 kg/cm²	0.369 kg/cm²	0.369 kg/cm²	0.369 kg/cm²

	Rear Contact Area	Rear Contact Area	Rear Contact Area	Rear Contact Area
	Chamber 1 With 200kg Load	**Chamber 2 With 200kg Load**	**Chamber 3 With 200kg Load**	**Chamber 4 With 200kg Load**
	Front Contact Area	Front Contact Area	Front Contact Area	Front Contact Area

Load	613.55 kg	404.75 kg	404.75 kg	404.75 kg
Area	915.1 cm²	915.1 cm²	915.1 cm²	915.1 cm²
Pressure	0.671 kg/cm²	0.442 kg/cm²	0.442 kg/cm²	0.442 kg/cm²

Volume Reduction
up to 90%

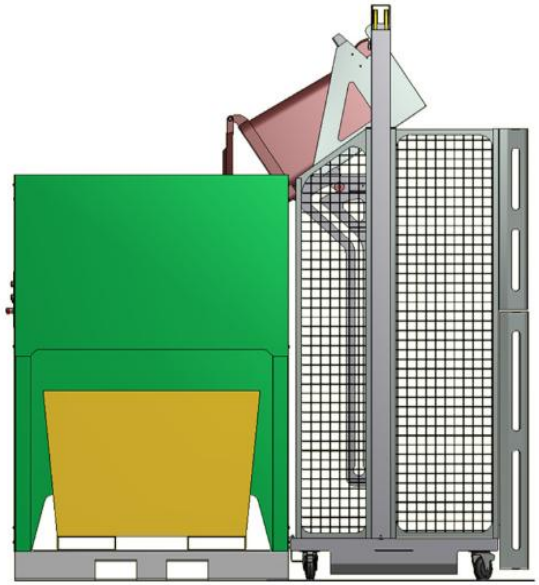
		Max Output Cardboard - Manual Loading	Max Output Shrinkwrap/Plastics - Manual loading	Max Output Aluminium Cans - Auto load with Bin Lifter	Max Output PET Bottles - Auto load with Bin Lifter
CYCLE TIME	per bale	Average 30minutes	Average 30minutes	Average 17minutes	Average 17minutes
	per hour	2 - 2 1/2 Bales	2 - 2 1/2 Bales	3 - 4 Bales	3 - 4 Bales
	per 7 hr day	15 Bales	15 Bales	25 Bales	25 Bales

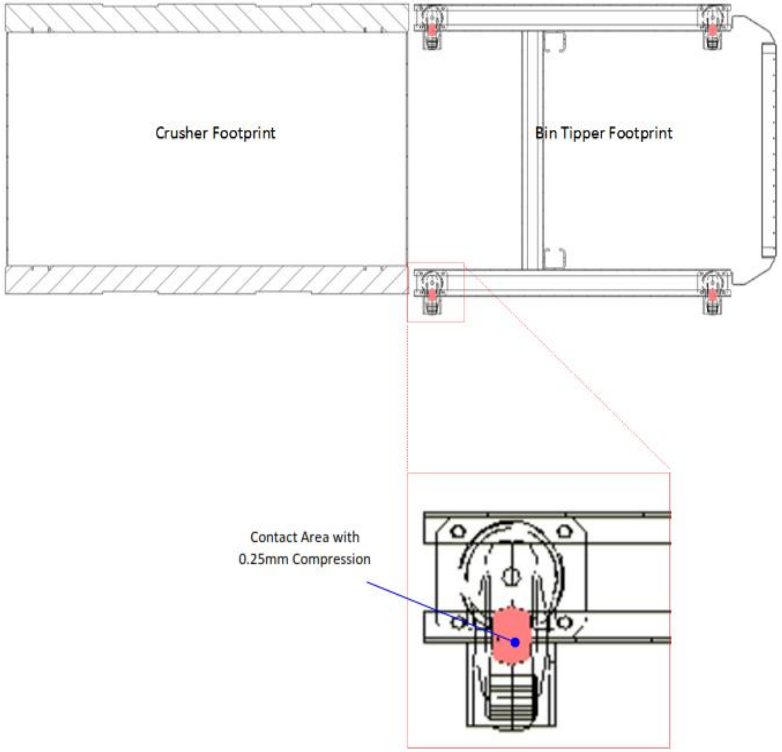
Recommended Area to be provided for Unprocessed Waste material = 8.8m3 or 4.4m2 of Floor area
Recommended Area to be provided for Processed Waste material = 8.8m3 or 4.4m2 of Floor area

Technical Data – Glass Crusher system

GLASS CRUSHER SYSTEM

Model	Auto-Feed Glass Crusher		Bin Tipper	
Load	500 kg		100 kg	
Width	1450 mm		1263 mm	
Depth	1000 mm		925 mm	
X-CG	718.64	49.56%	605.47	47.94%
Z-CG	517.1	51.71%	464.94	50.26%
X_1-CG			695	55.03%
Machine Weight	533.13 kg		375.00 kg	
Total Weight	1033.13 kg		475.00 kg	
Rear area	91505.3 mm²		603.8 mm²	
Front area	91505.3 mm²		603.8 mm²	
Tyre Compression			0.25 mm	





Technical Data – EPS Reducer system

EPS is made up of **98% air** and **2% plastic.**

With such a high volume/weight ratio, the Foam Waste can quickly fill up garbage bins, dumpsters, and landfill space.

Although recycling of plastics and paper is common in Australia, recycling of EPS/EPP/EPE is not.
Why aren't we recycling the Foam materials like USA, Japan, South Korea and European countries?
Many still believe that the Foam materials are not worth recycling.
Those who have tried to recycle the Foam failed to find a feasible method:
Old processes were messy and slow, and lacked the ability to reduce the volume of the material greatly enough for efficient handling.

Now, **Enviroplus Garbex has the solution :** we have the equipment which can process large, medium and small volume of EPS, EPP and EPE **efficiently and safely**.

Enviroplus Garbex offers to retailers and manufacturers a line of equipment that can transform various types of Foam(EPS, EPP, EPE)
scrap into **valuable resource** so they can not only reduce their waste handling costs, but also **generate revenue** through our **material buy-back program**.

Technical Data – Shredder System

FOR RECYCLING WOODEN PALLETS / PLYWOOD / TYRES ETC

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WHY SPENDING MORE MONEY ON A QUALITY CAMP WILL SAVE YOU MONEY IN THE LONG TERM.

WE ALL HAVE A DUTY OF CARE

Magnesium Board FIRE Video
DUTY OF CARE

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HUMAN BEHAVIOUR
Share and Win
Create Culture

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- Even good people make poor decisions
- People today have more opportunity and incentive to leak information
- The area to be protected is expanding
- Culture is a security tool
- ‘Generation-Y’ presents a multifaceted challenge
- Social media is both a threat and an opportunity
- Inconvenience breeds risk
- Cost and speed change the game
- Perimeters are obsolete
- Trust is a social construct

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WHY COMPANIES ARE WILLING TO SPEND 20 MILLION+ ON A KITCHEN?

Dining Facilities

Comparison – Standard Kitchen – Dining Area

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Standard Kitchen Prep Area

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Standard Kitchen Serving Area

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Standard Dry Store

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Standard Freezer

Standard Ceiling Height for kitchen mess.

New Modern $20 Million Kitchen

- Quality Spacious welcoming feeling creates calm
- People are not falling over each other and fighting for space or a seat
- Separate Areas allow WI-FI use to family in peace over breakfast
- Feels like a good restaurant – people can choose to sit with others or by themselves.
- Numerous breakfast bars means people can dine alone if desired.
- Morale boosting with high ceilings, quality nutritional cuisine, very clean modern designed environment
- Creates a culture

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$20 Million Kitchen – High Ceilings – spacious seating

One of many serving areas

Half of main serving area

Other half – main serving area

Safety First and foremost

Breakfast Bar with serving counter

Dry store designed for forklift entry

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Fire Protection Sprays

Steel bollards designed for forklift entry protection

Bollards & Drains at entry to freezers/cool-rooms/dry stores

Cooking - Fire Protection System contained in ceiling roof space

Plant room in the ceiling space provides extended plant life and ease of maintenance all year and increased worker care

Plant in ceiling space provides longer life, protection and ease of maintenance

And increased care of workers

Quality Workmanship throughout the complex

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AMC MULTI LEVEL HOTEL/MOTEL PROJECT IN PLANNING LIGHT STREET FORTITUDE VALLEY- QLD

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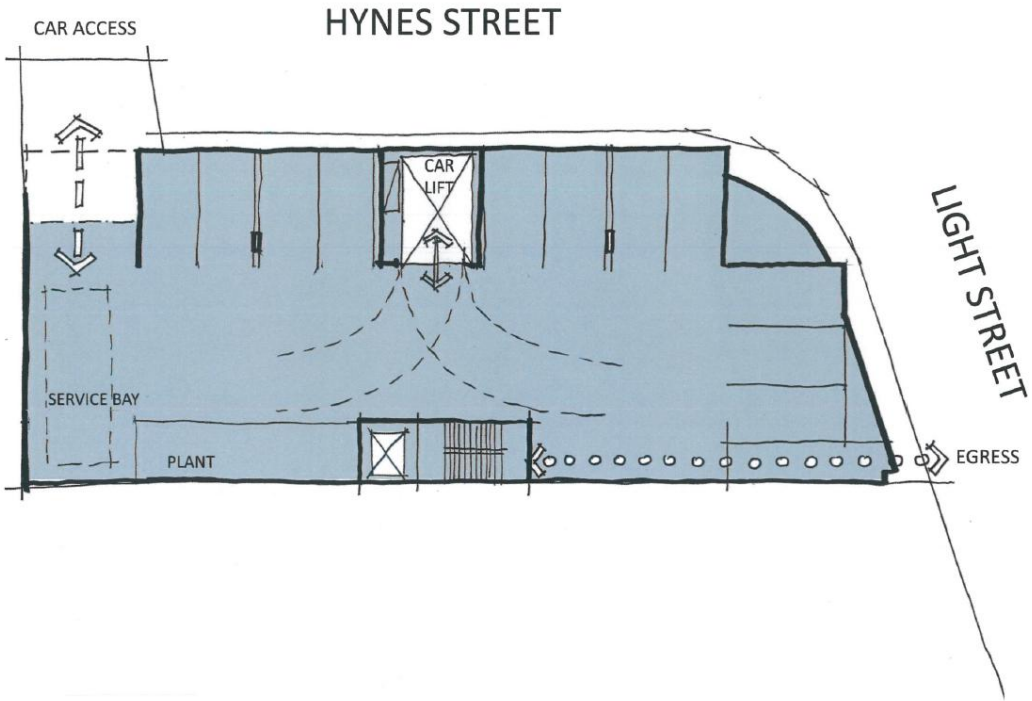

09-0142 LIGHT STREET DEVELOPMENT

CONCEPT SITE PLANNING - TYPICAL BASEMENT LAYOUT

SK02

SCALE 1:200 (A3) - 4 FEBRUARY 2010

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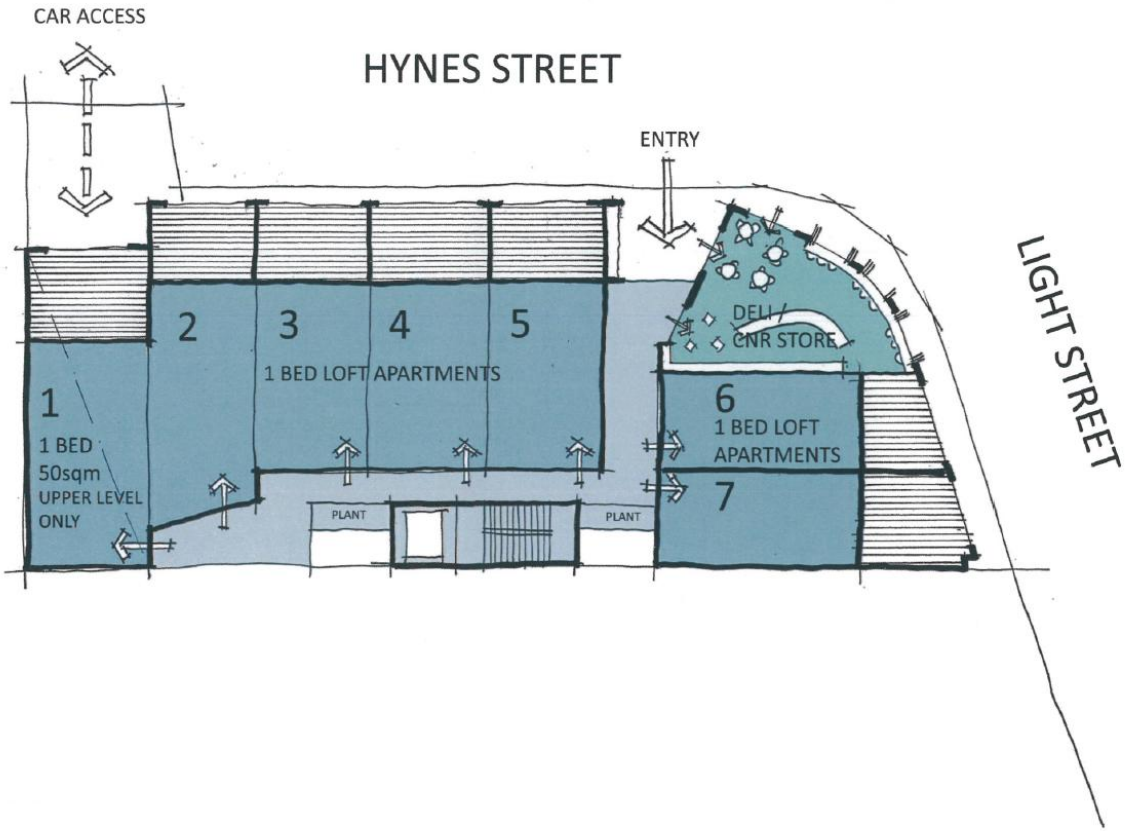

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CONCEPT SITE PLANNING - PODIUM LAYOUT

SK03

SCALE 1:200 (A3) - 4 FEBRUARY 2010

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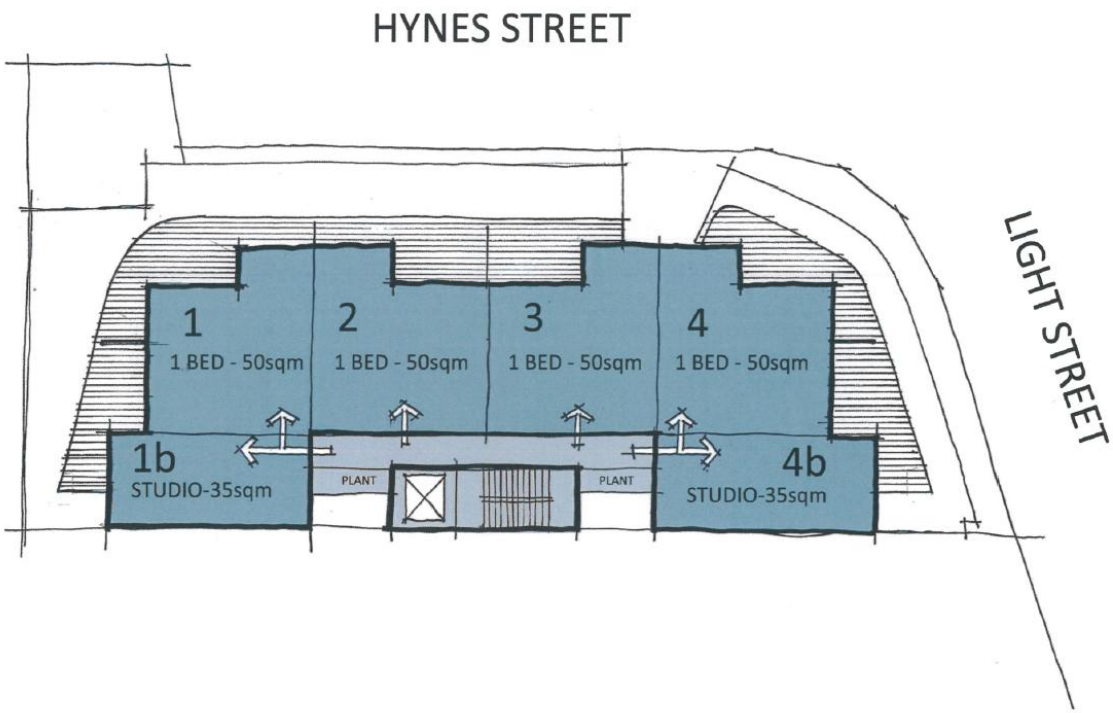

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CONCEPT SITE PLANNING - TYPICAL TOWER LEVEL LAYOUT

SK04

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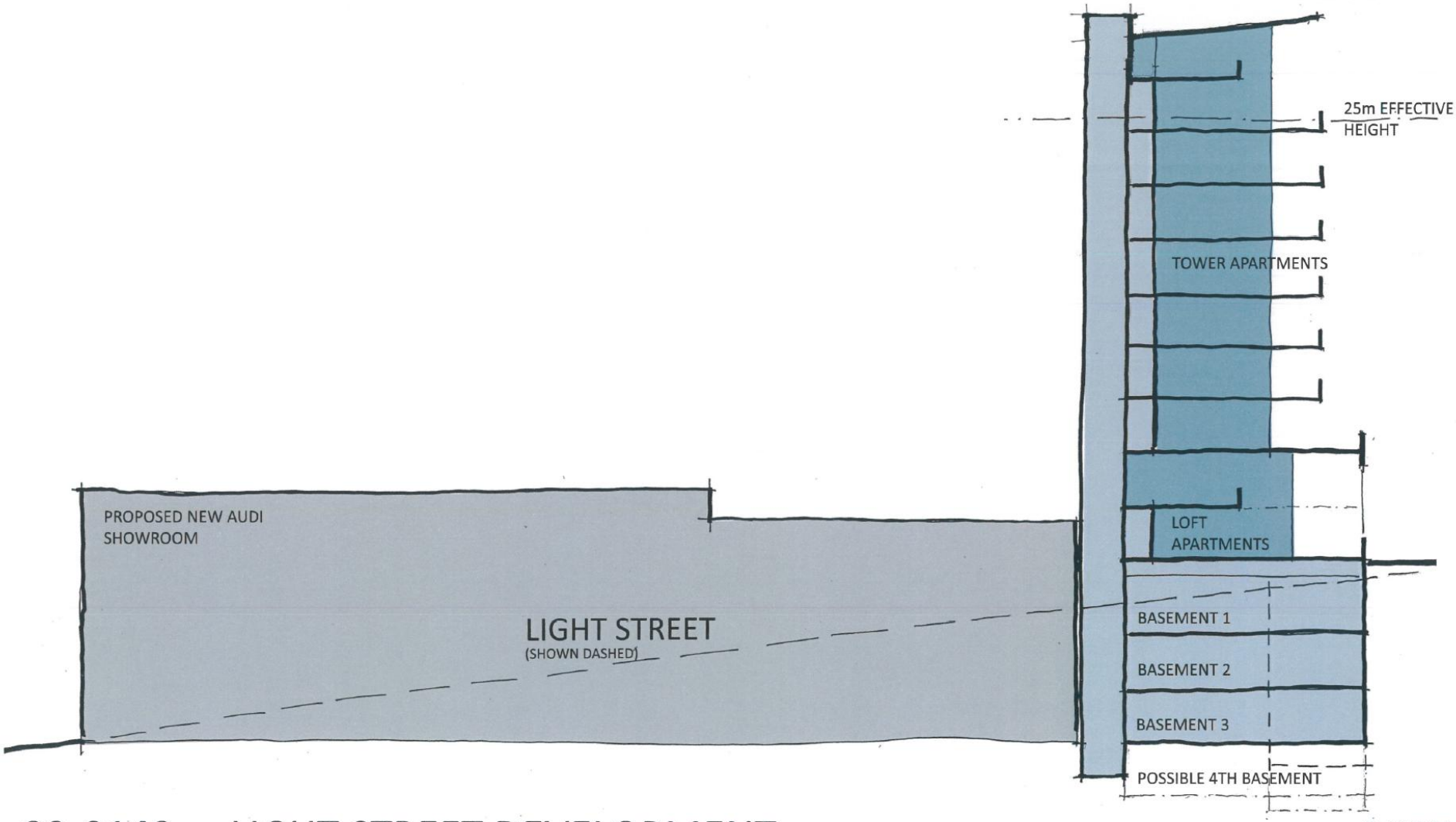

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CONCEPT SITE PLANNING - SITE SECTION

SK05

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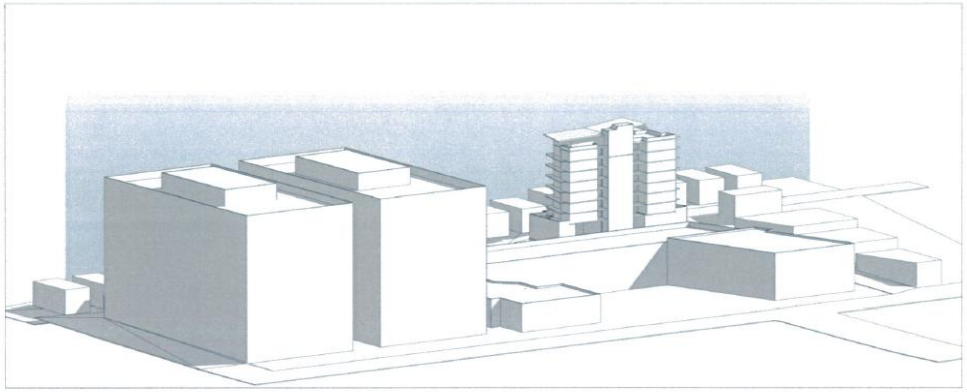

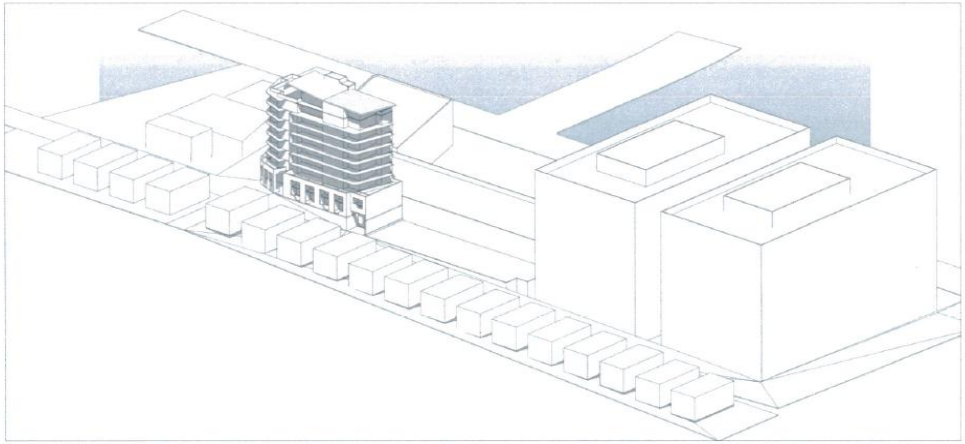

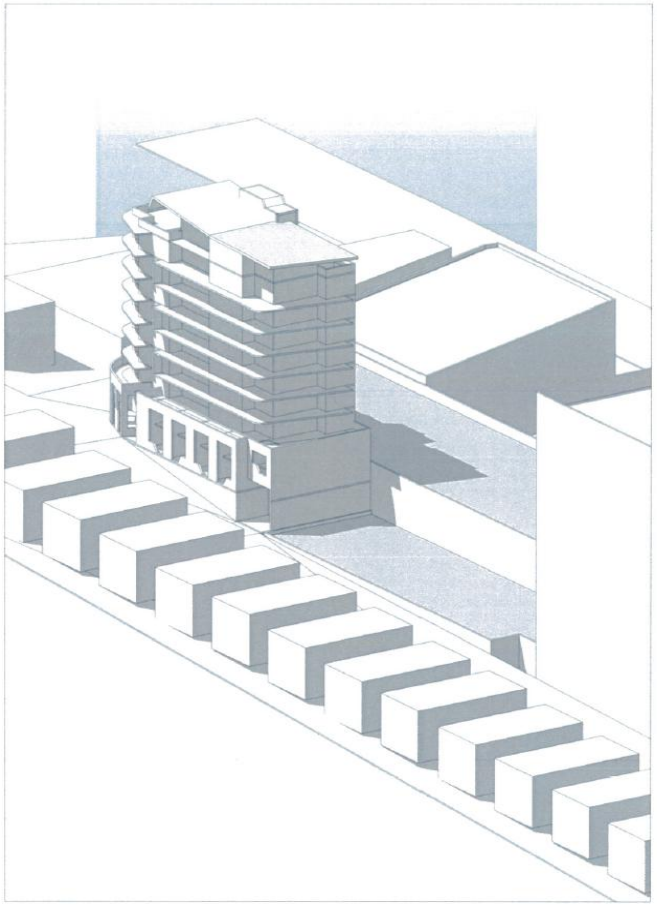

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CONCEPT SITE PLANNING - BUILDING FORM STUDIES

SK06

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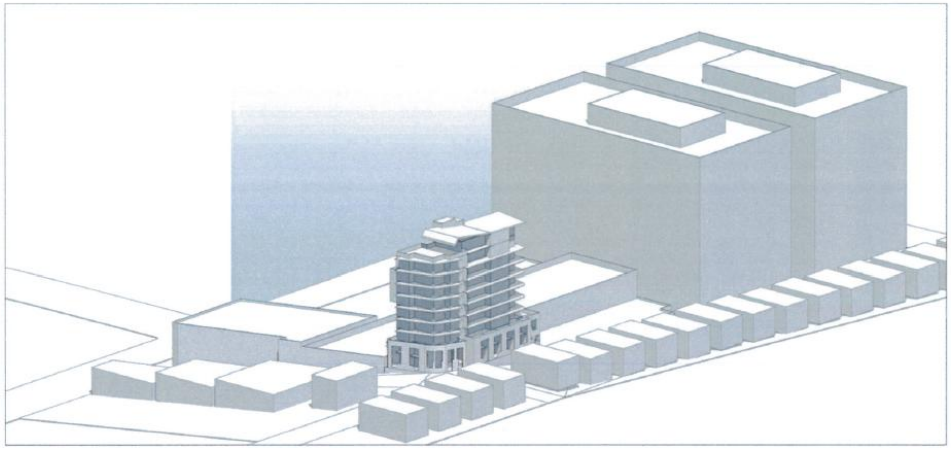

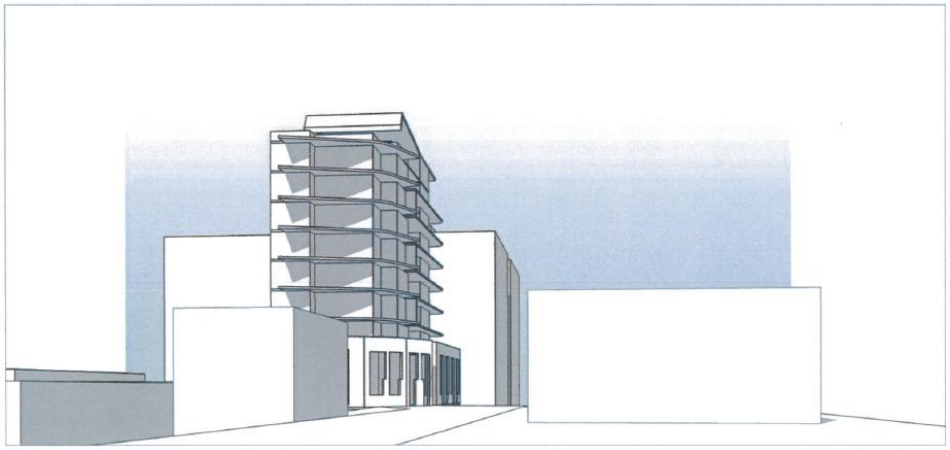

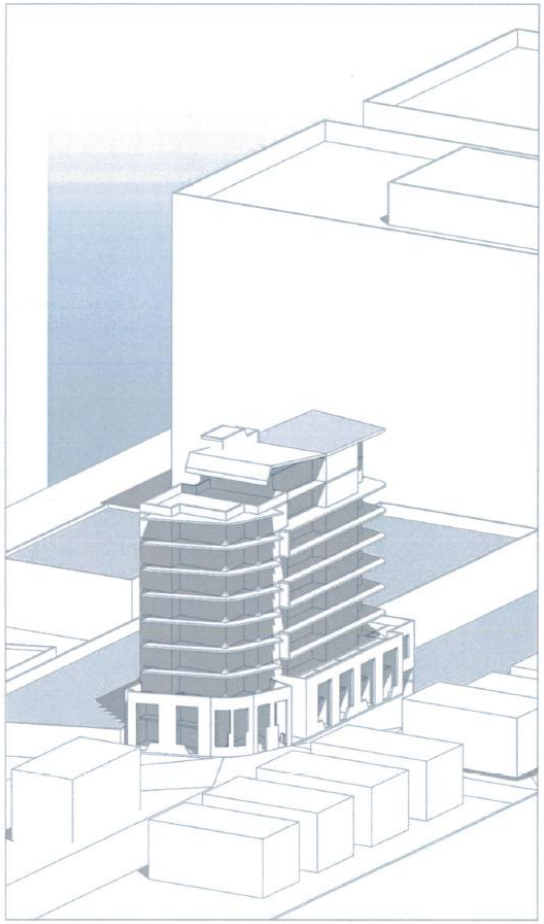

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CONCEPT SITE PLANNING - BUILDING FORM STUDIES

SK07

SCALE 1:200 (A3) - 4 FEBRUARY 2010

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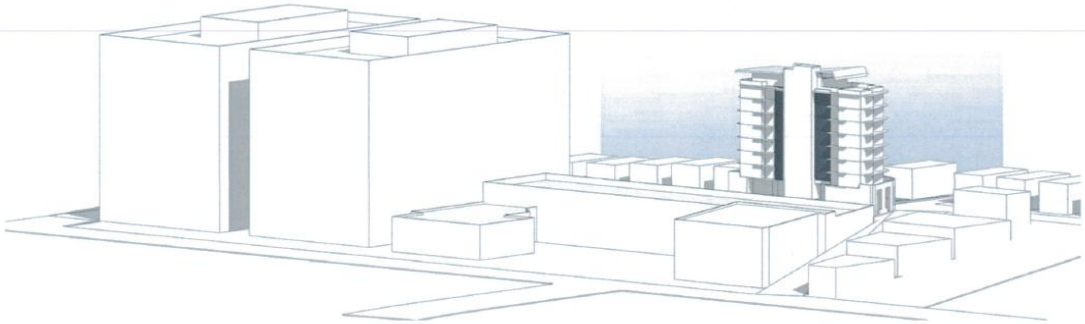
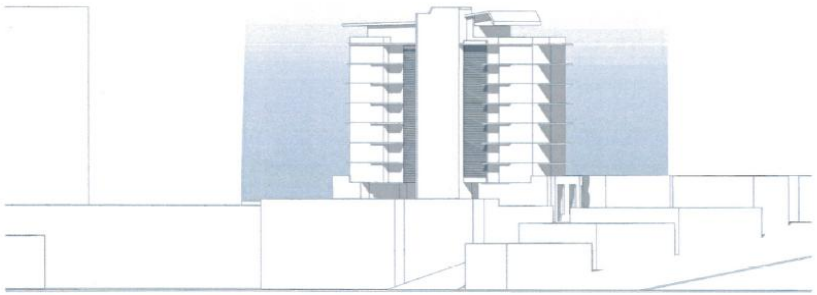
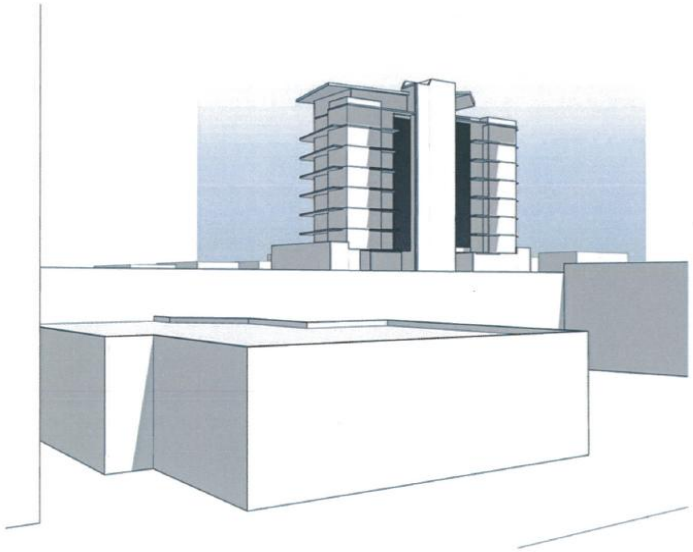
Integrated perspective







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CONCEPT SITE PLANNING - BUILDING FORM STUDIES

SK08

SCALE 1:200 (A3) - 8 FEBRUARY 2010

Acknowledgements

- Alison McIntosh – Queensland University- Faculty of Law
- Rio Tinto – (invite to tour facilities)
- WA Chambers of Minerals and Energy

OUR DUTY OF CARE – Bradford Fire video

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Questions & Answers

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Let AMC help you with your Remote Housing Solutions today.

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