Affordable Housing Joint Demonstration Project For The City of Sydney + Housing NSW

Site + Housing Design

ESD Assessment against SEPP65+RFDC Criteria

Issue	Objective/ Control	Design response	notes	Issue	Objective/ Control	Design response	notes
Apartment layout	maximise environmental performance of apartments	High targets set for demonstration project through Sustainable Sydney 2030 targets. Kinesis work rates design at 44% reduction in energy against 24.4% BASIX target	reliance on mechanical systems reduced. May result in cost savings. Possible shared laundries etc improve perfomance/cost through sharing	Parking	Minimise dependency on car	0.49 market rate. 0 provision for other. Equates to cost saving and ongoing resource usage for lighting and ventillation. Eliminates initial embedded energy	close proximity to city and public transport + extensive services. Legible street network
	provide high standards of residential amenity	single orientation apartments are at minimum and where located are north facing. >80% receive cross vent (via plenum or common spaces) or corner ventillation to north			Integrate location and design of parking with site and building	basements consolidated to building footprint. Entries, minimised 1 per block	promotes consolidated deep soil zones
	Single aspect limited depth from window	35sqm studios receive uninterrupted northern exposure to bedroom and living space	Minimal number in the mix of single orientation. All units should achieve 8-9m maximum depth from external openings	Energy efficiency	reduce consumption of energy, water, resources	Basix requirements exceeded through preliminary Kinesis assessment of design. Initiatives include:	further ESD components to be additional to these reductions
	standard affordable sizes	Rigorous testing of 35sqm studio, 50sqm 1 bed, and <70sqm 2 bed affordable units achieving amenity listed above	seeking variation from SEPP65 and DCP minimum sizes based on achieving affordability			fluorescent lighting and variable fans to basements	
	Back of the kitchen no more than 8m from window	Dasign complies in all conditions for accessible , affordable, and market modules	internal amenity maintained between living and dining. Ventillation of food spaces.			maximum natural daylighting	achieved through design
Internal circulation		Maximum loading for HT modules is 6 minimal internal circulation. 5 entries per core typical	reduces commonly airconditioned spaces. Isolated ore promotes openings to the circulation space. All common circulation located adjacent to external wall for ventillation + natural light			maximum cross ventiliation	achieved through design:
	consolidted core	lift and stair access consolidated and legibly located	most fire escapes located adjacent to external walls wit daylight +fresh air minimising idle energy use			gas instantaneous water heating	or alternate central gas boiler
Daylight access	Living and private open spaces minimum 3 hours direct light in winter to 70% of apartments	Approx 90% apartments receive in excess of 3 hours winter direct sun exposure	shading and structural configuration to reflect solar protection to exposed tower elements in summer			thermal performance through mass/glazing	initial cost offset by limited or no use of mechanical
	limit the number of single aspect dwellings to south	No single aspect dwellings facing south				shared laundry	efficiency through common facility
	optimise to north	all blocks and apartments where possible are oriented to north or dual aspect	maximum winter sunlight. Minimal reliance on mechanical systems			solar hot water	initial cost, lower ongoing electr usage
Natural Ventillation	Building depth between 10 and 18m maximum	HT building depths range between 13 and 15m glass to glass. Optimal	optimal for cross and corner ventillation			photovoltaics	configured to provide year round addition to the grid. Multiple locations. Initial upfront cost
	60% units naturally cross ventillated	>80% HT units are cross or dual ventiliated.	where single orientation units occur primary orientation is to north	Deep Soil	Min 25% of open space to be deep soil zone	>75% of open space as deep soil achieved	limited basements, or efficient basement configuration below building footprint
	25% kitchens should have access to ventillation	Accessible, market comply almost 100%	Affordable modules combined living/dining/kitchen open directly to primary private space	Stormwater Treatment	integtrated to design	water sensitive urban design employed	capacity exists for rooftop harvest and stormwater mining on site + in wentworth park
	Optimise solar access	Block configuration and heights calibrated for maximum solar access	further design development post feasibility	rainwater harvesting	reduce potable consumption	minimum 2sqm per dwelling required. Storage on roof to provide gravity feed for toilet flushing	further to the 3-4 star fixtures recommended in initial water use savings
	support landscape design	consolidated courtyards provide microclimatic and amenity provision	existing significant plantings retained where possible	roof design		green roofs provided to all buildings	provides common green space, shared passive clothes drying, communal garden, water
	Contribute to Street character	Street wall buildings with active edges. Eliminated blank walls. Height responsive to street reservation and context.					
	thermal efficiency	shallow building depth with preference to north orientation. Emphasis on quality glazing and sun shading to key orientations.	mass in concrete construction.				

25 May 2009 scale:

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4.2b ESD Achievement

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Sustainable Sydney 2030 target achievements

Sustainable	Sydney 2030 target ac	chievements						
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10 TARGETS FOR 2030	1 By 2030, the city will reduce greenhouse gas emmissions by 50% compared to 1990 levels, and by 70% compared to 1990 levels by 2050	Preliminary Basix measurements provide a 44% reduction (20% gbove the benchmark of 24% purely through design). This enables massive reductions in dependence on mechanical forms of cooling + heating by conventional methods	A Leading Environmental Performer	2.1 Increase the capacity for local energy generation and water supply within city boundaries	allocation of a "green transformer" to connect the site + surrounding areas. Large capacity for water harvest and recycling associated with Wentworth Park from Blackwattle Lane	Housing for a diverse population	8.1 Facilitate the supply of housing by the private market	The project achieves a strong n of market housing with affordat + social components:
	2 By 2030, the city will have the capacity to meet up to 100% of its energy demand and 10% of its water	allocation of a "green transformer" to connect the site + surrounding areas. Large capacity for water harvest and recycling associated with Wentworth Park from Blackwattle Lane		2.2 Reduce waste generation and stormwater pollutant loads to the catchment	Provisions for green roofs, stormwater harvest, and sewer mining throughout design. Site offers ample harvest of water, with particular interest for any renewal of Wentworth Park		8:2 Ensure that housing development provide a diversity of housing opportunities for different lifestyle choices + household types	The combination of social, affordable, and market housing targets a wide range of housing choices more broadly suited to typical apartment development Apartment mixes have been ca considered in the feasibility
	3 By 2030, there will be atleast 132,000 dwellings (48,000 additional dwellings) in the city catering for an increased diversity of household types, including a greater share of families	Key aims of the project -expanded further in later targets		2.3 Improve the environmental performance of existing buildings	Several key buildings remain on the CoS Site that offer great reuse opportunities allowing better performance than current usage allows		8.3 Ensure that a substantial proportion of housing is aimed at the lower end of the market	The Social and Affordable components are rigorously test to minimise size + efficiency wil maintaining amenity to allow a lower end price
	4 By 2030, of all housing in-the City, 7.5% will be social housing, and 7.5% affordable housing delivered by not-for-profit or other providers.	Key objective throughout project. Maximum affordable housing yield will increase chances of meeting and exceeding this objective	A City for Walking + Cycling	4.1 Develop a network of safe, linked pedestrian and cycle paths integrated with green spaces throughout both the City + Inner Sydney	All 4 streets bordering the project are highlighted as part of the liveable green network with Harris Street + Glebe Point Road chosen as Green Corridors of focus. Bay Street Links park-lo-park			Project has potential to be divid into many stages/lots within sta to allow a multiplicity of provide of varying sizes to construct individual components
	5 By 2030, the city will contain atleast 465,000 jobs with an increased share in sectors that reflect the City's specialisations, namely finance, advanced business services, education, creative industries, and tourism.	opportunities to maximise catchment of workers in key industries through selection process	A lively, engaging City Centre	5.1 Strengthen the City's Puble Domain identity + create more places for meeting, rest + leisure	Wide pedestrian zones, pocket parks, and shared zones feature fo- create unique and local features of new and existing streets within the project boundaries		8.5 facilitate + promote growth in the social housing sector to provide housing opportunities for those with very low incomes	A prediced number of 160 socia homes are expectedreplacing existing 134.
	6 By 2030, the use of public transport for travel to work by	Well served by public transport. Evental numbers underpinned by complementary measures of 2030.		5.4 Increase the supply of small scale spaces for retail + small businesses on streets + lanes	retail + small business opportunities exist at ground level and in limited commercial premises along Bay Street + wentworth Park Roads	Sustainable development, renewal, + design	9.1 Ensure renewal areas make major contributions to the sustainability of the City	This key site has green transformer, water harvest + recycling strategies in place abi not only increase sustainability the site, but the greater area of Glebe
	7 By 2030, at least 10% of trips made in the City will be by cycling, and 50% by walking	Location well suited to walking and cycling. Higher levels should be desired from this development	Vibrant local communities + economies	6.1 Maintain + enhance the role + character of villages	Significant adjoinging Streets offer existing character improved and highlighted through public domain improvements to footpaths, plantings, and proposed built form. A new network of streets further enhances the finegrain, walkability, and character of the place		9.2 Define + improve the City's streets, squares, parks, and open space, and enhance their role for pedestrians and in public life	A highly considered design pale has been used to create a Publi Domain Plan which provides retention of on-street parking, levels of Street-tree planting, a well as pedestrian priority throu minimal cariageway widths.
	within a 10 minute walk (800m)	Harris St + Glebe Point Roads are existing main streets further focussed for 2030. Each posess key services within 800m expected to be greatly improved under 2030		6.2 Create a network of Activity Hubs as places for meeting, shopping, creating, learning and working for local communites	Activity hbs located at Harris Street + Glebe: Bay St offers a secondary activity centre to these hubs, all within 800m walking distance		9.3 Plan for a beautiful City + Promote design excellence	Maximum amenity with appropri block structure + massing has been achieved through initial passive design to be further enhanced in later stages. Stree are celebrated as the ultimate public asset, with key park and shared zones, and plazas creat
	city will be within a 3 minute (250m) walk of continuous green links that connect the harbour foreshore, harbour parklands,	All 4 streets bordering the project are highlighted as part of the liveable green network with Harris Street + Glebe Point Road chosen as Green Corridors of focus. Key links are achieved to the harbour + Centennial/Moore Parklands		6.3 Provide a rich layer of accessible community level social infrastructure, services, and programs across the city	Wentworth Park + potential upgrades offer huge potential for supportive social infrastrucutre. Existing assets include fan Thorpe Pool, Broadway Supermarkets, the like		9.5 Ensure new development is integrated with the diversity + grain of the surrounding City	
	10 By 2030, the level of community cohesion and social capital will have increased as measured by more than 45% of people	Diversity of housing promoted in the project between affordable,		6.4 Develop + support local economies and employment	Lower rents offered in Glebe and surrounds are in contrast to the City Centre offering opportunity for grass-roots industry and local emerging economies to propser with a greater demand from increased local residents and the increase in retail and office space associated with this project		9.6 Plan for the longer term structure of the City	New Streets will endure long af buildings have reached their lift cycle and beyond. New streets associated with the project are gift to the City's lasting legacy anticipate the next wave of development

25 May 2009 scale:





4.3 Sydney 2030 Assessment

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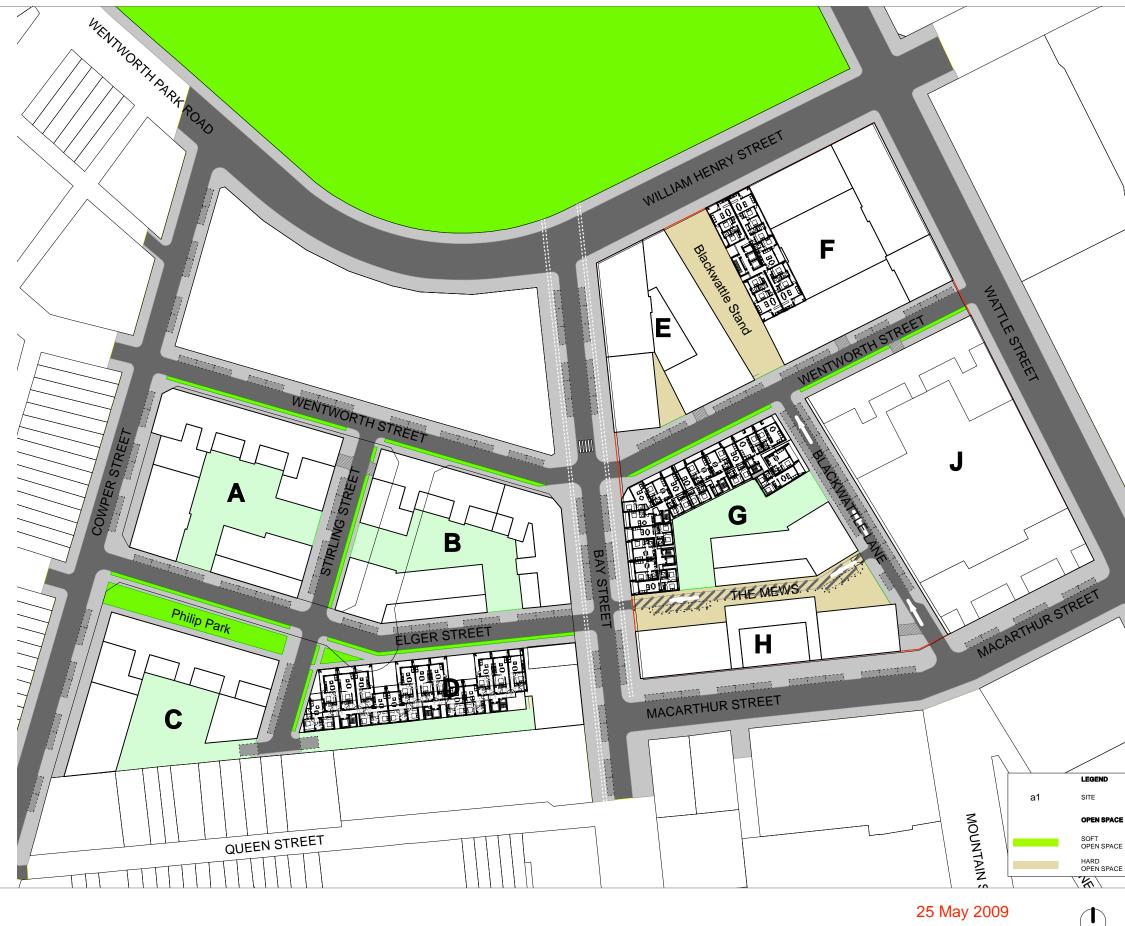


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25 May 2009

scale: 1:1250



4.4 **Representative Housing**

This drawing shows three potential building layouts that can occupy the building envelopes proposed for the site.

Three building types are proposed, specific to the site and program. Block D1 is social housing and complies with Housing NSW mix and brief (refer 5.4 + 5.5).

Block G1 and G2 is affordable housing and demonstrates a layout for the typical 16.2m deep envelope (including balcony zones) across the site (refer 6.5 + 6.6).

Block F1 is market housing demonstrating a layout suitable for the proposed towers. All layouts satisfy the intent of SEPP65 and often exceed the Residential Flat Design Code (refer 6.7).

These layouts have been measured and used to generate the envelope to unit efficiencies used in the brief and yield spreadsheets (5.2, 5.3a+b, 6.2, 6.3a+b)



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25 May 2009 scale: 1:400 / 1:1500



4.5 Street Level Interface

The ground floor condition assumes a free-board level of 1.2m above the lowest RL on the depot site. This aims to reduce the risks associated with a 1 in 100 year flood. It is hoped that further investigation into flood levels, velocity, and methods of aleviation will enable this free-board level to be reduced.

It is essential to maximise the communication of active uses as well as private entries to the street edge. Open collonades, strategic placement of entries, as well as careful planning of disabled access should be employed to enable this.

Areas noted are indicative retail yields given the conditions at the time of consideration.



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4.6 Green Roof Potential

Green roofs are important environmental initiatives as well as being a sensible use of often under utilised space. This plan shows indicatively that a proportion of roof space can be given over to drying spaces, gardens and communal entertaining areas.

The most accessible parts of the roof are those immediately adjacent or between lift cores and stair wells, particularly where the building has a step in height at its topmost floor. These spaces are suitable for low shrubs, grasses, potted trees and clothes lines.

Top floor apartments with extended balconies can be separated from communal areas by a combination of level change and fencing. Corner conditions are suitable for larger spaces and could support small planted trees and shade structures.

Built courtyards over lower levels, such as those on Blocks E and F could consider larger scale trees, more substantial planting and more extensive paved areas able to be looked over by many upper floor apartments.

The roof of Block J, the depot, is of an even larger scale and is shown supporting communal productive fields of fruit, vegetables and flowers. Alternatively, the size of this space could support a recreation function such as two full tennis courts. Roofs that have the potential to face towards north have been shown with extensive solar panels.

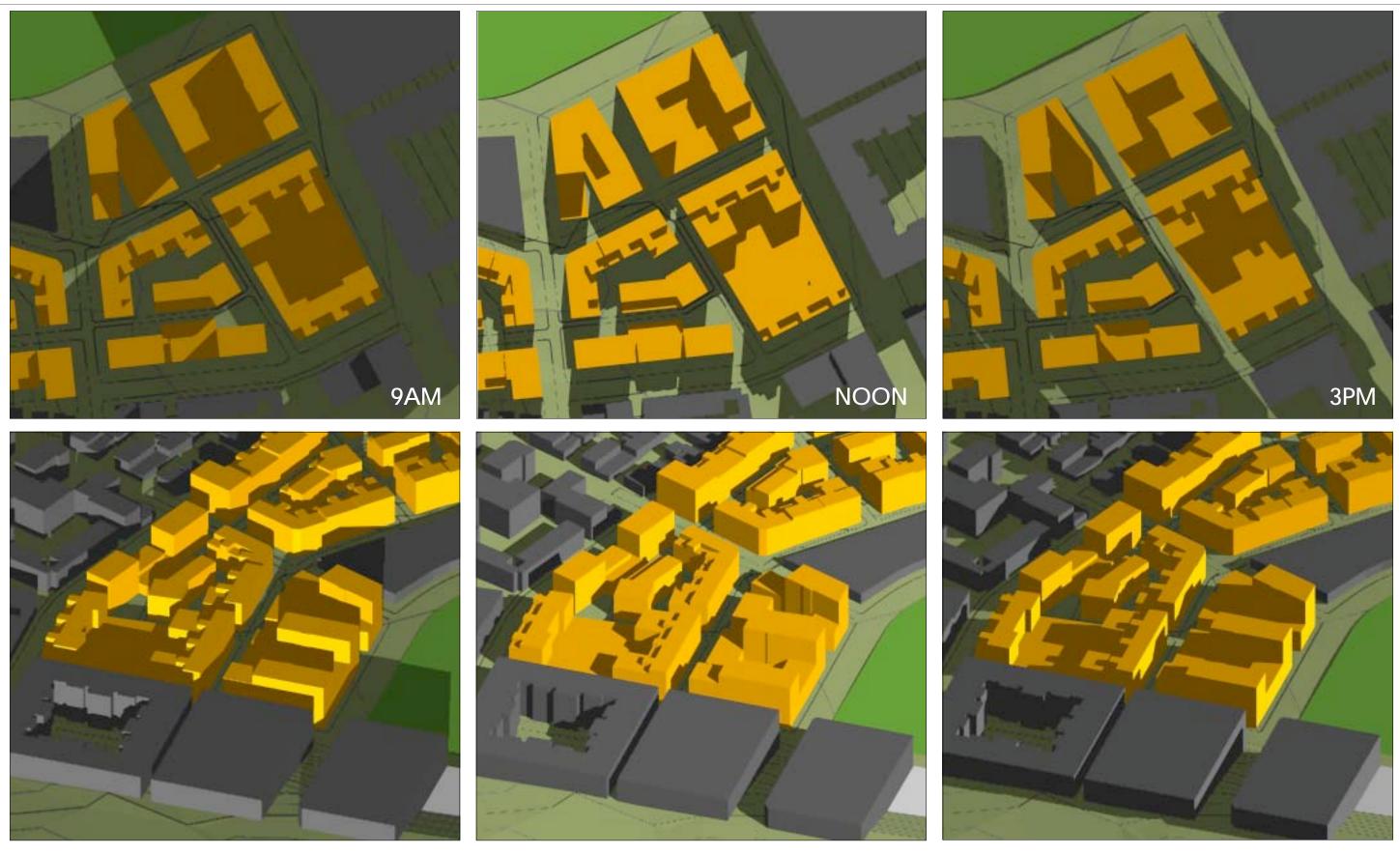


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CoS Site Sun Angles



25 May 2009 scale: 1:2000

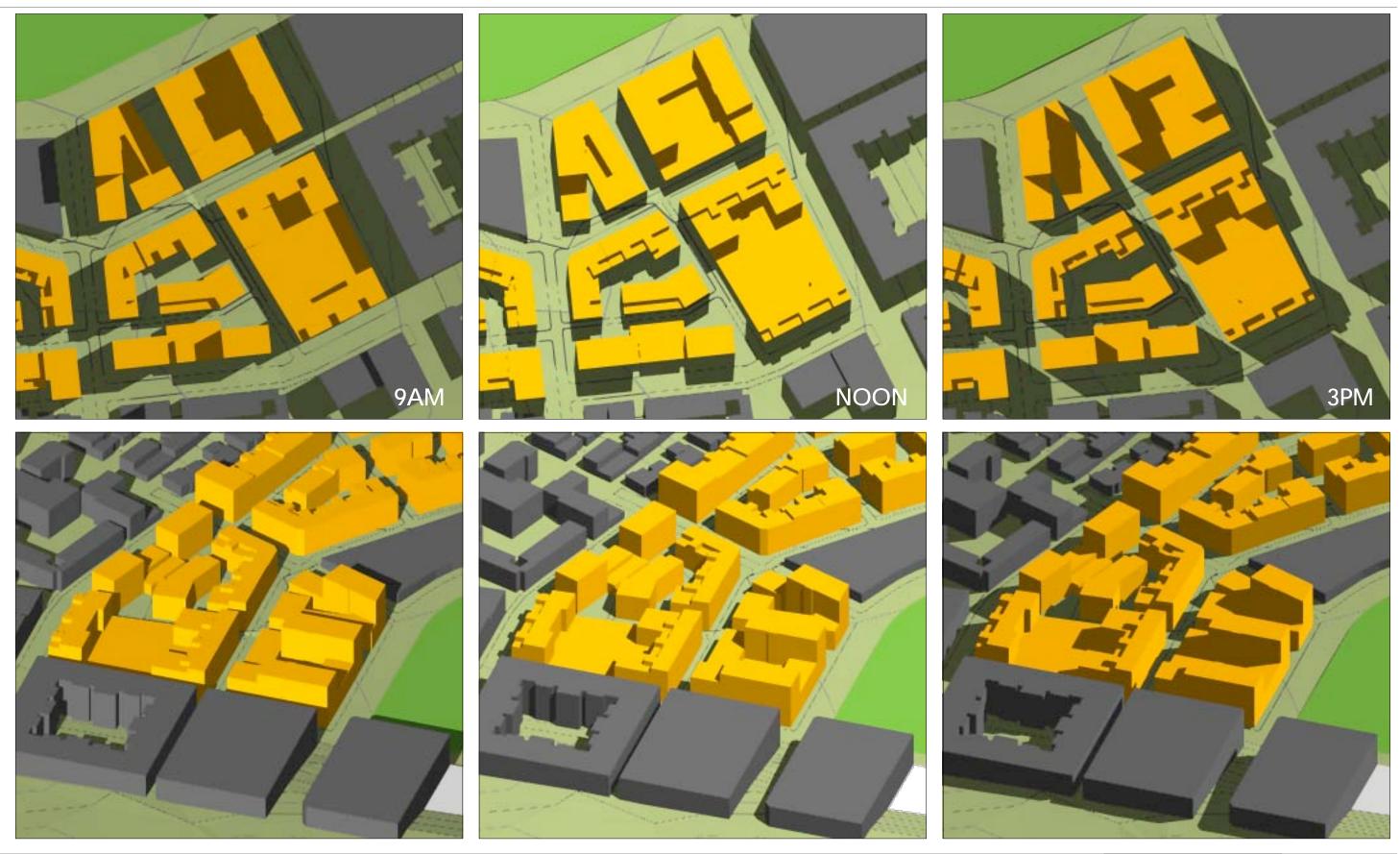






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CoS Site Sun Angles 4.8 Sep / March 21



25 May 2009 scale: 1:2000







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Affordable Housing Joint Demonstration Project

For The City of Sydney + Housing NSW

HNSW Site



25 May 2009

scale: 1:1000



5.1 **HNSW Site in Context**

The Housing NSW site has been divided into four blocks by the introduction of two new streets. The layout of these streets relates to the alignment of neighbouring streets and is guided by the position of previous historical streets. The blocks are square or longer east-west in order to increase north facing orientation for new apartment buildings.

Envelopes for perimeter block housing have been designed for each block and modulated in height to balance relating to existing neighbouring conditions and the desired future character. These envelopes are a generic 16.2 metres deep allowing for thin section SEPP65 compliant buildings with good cross ventilation. Along Cowper Street, new built form steps up from four storeys at the south to seven storeys closer to Wentworth Park.

Building alignment / Setback

From Cowper Street the form on Blocks A and C is set back three metres to consolidate landscape area along this residential street. A six metre setback between Blocks C and D and neighbours to the south assists sunlight access and reinforces the landscape zone to aid in privacy.

Height

Most blocks are five and six storeys in height and have landscaped, deep soil courtyards. On Wentworth and Bay Streets, an additional half seventh storey is appropriate as this has no additional impact on shadows or amenity. However, other blocks necessitate a reduction in height to the south side of buildings to allow sunlight access to narrower courtyards and east-west streets.

Envelopes show indicative lift cores continuing to the uppermost level allowing the possibility of communal roof top gardens and clothes drying spaces.

Mixed Use

Commercial space is located at the base of Buildings B2 and D2 in order to strengthen Bay Street as a primary pedestrian street. Blocks A, B and D lend themselves to being developed in several parts by multiple parties.



BUILDING HEIGHT

Affordable Housing Joint Demonstration Project

For The City of Sydney + Housing NSW

HNSW Site

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25 May 2009





5.2 Brief

The brief spreadsheet takes the briefed apartment mix and net sizes for market housing, affordable housing and social housing, and applies efficiencies for circulation, party walls, external walls, balconies and articulation space to calculate a gross floor area, the gross size of each apartment, an average apartment size, the building efficiency and amount of car parking required. The results of this spreadsheet can then be applied to envelope measurements to determine a theoretical yield (5.3). The building efficiencies have been derived through the design of typical units types specifically suited to the building envelope depths.



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Affordable Housing Joint Demonstration Project

For The City of Sydney + Housing NSW

HNSW Site

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Individual block FSR calculations added Blocks H and J have revised building break ups reflecting design changes Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commercial GFA factor reduced to reduced to reduced to reflect freeboard (plock e3 and J remain 0.85) Image: Commerc						n2 (Except for	DOH)							buildings					1]	ļ	r	-
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25 May 2009 scale:



CAR (m2) 36

27

1340 40

44 1643

2295

653 2161 146

690 1142

7237

115

3632

27



5.3a Yield

The yield spreadsheet measures the area of each site, each block within the site and each building envelope within the block as described on the urban design layout drawing (5.1). The Housing NSW site is comprised of Blocks A, B, C and D. Each building envelope is measured in plan and multiplied by the number of floors to give the total envelope area. Efficiencies for commercial and residential (the latter from the brief spreadsheet 5.2) are applied to derive the theoretical yield of each envelope. These are expressed as commercial GFA, residential GFA, and number of units. Car parking required is calculated and compared to what can be accommodated on site through design. The total yield for each site is captured at the bottom of the spreadsheet. These totals then inform the FSR calculations for the individual blocks and entire site.



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HNSW Site

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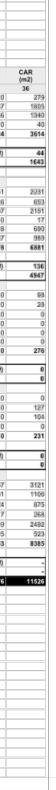
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5.3b Yield





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Affordable Housing Joint Demonstration Project

For The City of Sydney + Housing NSW

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25 May 2009

HNSW Site

scale: 1:100



5.4 Block D Module Plan

This module has been developed for the envelope of Block D1 of the Housing NSW site. This envelope has an atypical depth of 20.1m. The designed layout provides deep courtyards that increase the length of the perimeter wall, number of windows, sunlight and air and effectively reduce the building depth to protect amenity.

40% of bathrooms are naturally lit and ventillated. 80% of apartments have dual orientation. 20% have single orientation to north.

Each core has five units per floor (4 x 1 bedroom and 1 x 2 bedroom) which reflect the Housing NSW brief for unit mix. All units have north facing living rooms and balconies. All units can be cross ventilated, either through north and south facing windows, or through a highlight window above the entry door. The foyer is unenclosed and has access to natural daylight and air. All service rooms can be naturally ventilated through a window or via a plenum above the foyer ceiling. The accessibility requirements (AS1428) are indicated in grey.

SPACE ALLOCATION

Apartments	282.7m2	55.2%
TOTAL SALEABLE	282.7m2	55.2%
Horizontal Circulation	19.4m2	3.8%
Party Walls	13.8m2	2.7%
TOTAL GFA	315.9m2	61.7%
External Wall	32.6m2	6.3%
Vertical Circulation	15.4m2	3.0%
Balconies	66.6m2	13.0%
Articulation	82.1m2	16.0%
TOTAL FOOTPRINT	512.6m2	100%

UNIT SIZES

53.7m2
14.7m2
68.4m2

TOTAL	75.6m2
2 Bed Balcony	7.9m2
2 Bed Internal	67.7m2

External walls shown as 300mm Internal walls sown as 150mm Laundries 1200mm wide Hallways 1200mm wide



EVEL 5, 68-72 Wentworth Ave urry Hills NSW 2010 Australia 02 9211 6276 F 02 9281 3171 admini@hilthalis.com.au

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scale: 1:400



5.5 Block D in Context

The typical module (5.4) is applied to the building envelope. Small adjustments are made to cater for end conditions. The module is mirrored across its party wall creating courtyards to the street to the north which can contribute to street landscaping. The entire building is set six metres off the southern boundary to retain a landscape zone providing privacy to and from the neighbours. Off street car parking is shown at the south west corner of the site which can have an undercover connection to a community room and lift core at ground floor.



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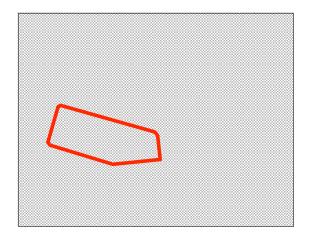
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5.6a **HNSW Basement Option 1**









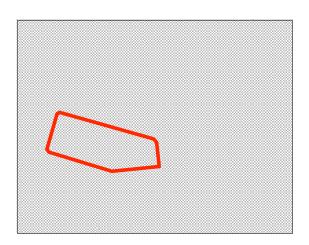
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5.6b HNSW Basement Option 2

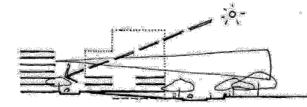




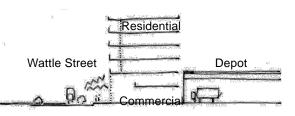
Affordable Housing Joint Demonstration Project For The City of Sydney + Housing NSW



MIXED USE Housing over existing commerical and church Architect Tonkin Zulaikha Greer York Street, Sydney



SUNLIGHT AND VIEWS Tower forms on park allow north sun to southern blocks and views from southern blocks to Wentworth Park



COMMERCIAL SPACE Commercial space at the ground two floors can act as a mediator between the heavy traffic of Wattle Street and noise of the operational Council Depot to residential use above



MIXED USE Housing over police station Amsterdam

Built precedents around the world exist where service oriented uses are coulped with commerial and residential occupation.

Sydney examples include the coexistene of firestation and apartments in the busy Castlereagh Street. Apartments are also located adjacent to group and community uses such as the Scott's Church Hall.

Overseas examples also make the most of valuable urban land by combining the use of public infrastructure with housing. In Amsterdam (pictured left) the municipal police station houses residents above the working station.

In Paris the municipal government operates many depots over the expansive and denseley populated metro area. Examples of co-locations with depots include garbage collection and processing in Rue Du Meaux (Apartments and private court by Renzo Piano 7.2).

On Boulevarde Jourdan Housing attaches to a metropolitan bus depot servicing vehicles across the city. This housing is directly attached but buffered from the operations at ground level.







