



SYDNEY OLYMPIC PARK SITE 53

DEVELOPMENT APPLICATION - ARCHITECTURAL REPORT AND DESIGN VERIFICATION STATEMENT PREPARED BY BVN 17 MARCH 2016





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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

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SITE DESCRIPTION

2 Figtree Drive, Sydney Olympic Park 12,697 m²

The allowable areas with the 10% Design Excellence Bonus are as follows:

	FSR	GFA
ALLOWABLE	2.75:1	34,917

The brief target apartment mix is:

APARTMENT TYPE	PERCENTAGE
l Bed	40%
2 Bed	50%
3 Bed	10%

The proposed scheme has a total GFA of 34,886m², yielding 422 residential apartments.

	FSR	RETAIL GFA	RESIDENTIAL GFA	TOTAL GFA
ACTUAL	2.7:1	1,500	33,386	34,886
The mix bei	ng:			
l Bed	158		37.4%	
2 Bed	220		52.1%	
3 Bed	44		10.4%	
TOTAL	422			

PROCESS

Mirvac held a Limited Design Excellence Competition between: 03/12/2014 to 30/01/2015

With the competitors: PTW Tony Caro Architecture Mirvac Design BVN

• BVN submitted a conforming and non-conforming scheme. The non-conformance related to height non-conformance in 1 of 4 buildings.

• Jury supported non-conforming scheme with clarifications.

• BVN developed the scheme taking into consideration the jury's comments.

• BVN presented an amended scheme to SOPA design review panel on 25/03/15

• The design review panel generally supported the design development since the competition stage with clarification.

• BVN developed the scheme taking into consideration the design review panels comments.

• This design report accompanies the Development Application of the scheme.



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CONTEXT

CONTEXT

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SITE 53, 2 FIGTREE DRIVE •••• FIGTREE DRIVE AUSTRALIA AVENUE SYDNEY OLYMPIC PARK RAILWAY STATION LOCATION

ISSUE C

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MASTERPLAN Sydney Olympic Park Authority Masterplan 2030 showing proposed developments



CURRENT ARIEL VIEW Image courtesy of Google Earth

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SITE PHOTOS



SITE 53 FROM FIGTREE DRIVE Looking East onto Site 53, 2 Figtree Drive, with Australia Towers in the background



LOOKING NORTH UP AUSTRALIA AVENUE Site 53 on the left obscured by trees, with the rail and pedestrian overpass crossing Australia Avenue.



EXISTING FIG TREES ON SITE The two existing fig trees on the North-East corner of the site.



LOOKING WEST INTO LINEAR PARK Existing landscaping and footpath of the linear park along the southern boundary of the site.





4 FIGTREE DRIVE

The existing Fujitsu Australia building neighbouring to the west of the site





SITE ANALYSIS

SITE ANALYSIS

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SITE ANALYSIS

Plan demonstrating solar paths, view corridor and surrounding infrastructure

ISSUE C

MASSING STUDIES

Below are massing study options based on SEPP 65 and SOPA masterplan 2030 controls showing the variations of built form considered during the design process. The design studies try to balance a built form that complies with the relevant controls while responding to the future streetscape character of the area and creating a sense of place for the residents.



SITE ANALYSIS



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COMPETITION SCHEME

COMPETITION SCHEME

ISSUE C







- CONNECTING GREEN SPACE 1 Creating a courtyard public space around the existing fig tree along Australia Avenue 2 Landscaped view corridor runs through the site and connects to the linear park to the south 3 Providing a north facing communal space linking the public space with the view corridor

MAINTAINING EXISTING FIG TREES AND REPOSITIONING EXISTING WESTERN FIG TREE



LEVEL 1 FLOOR PLAN

RETAIL

21



BASEMENT PLAN



COMPETITION SCHEME

BUILDING HEIGHTS - COMPLIANT









COMPLYING BUILDING HEIGHTS 10 Storey blocks in accordance with SOPA Masterplan 2030

BUILDING HEIGHTS - NONCOMPLIANT





VIEW FROM ACROSS FIG TREE DRIVE

ALTERNATIVE BUILDING HEIGHTS Varied building heights to achieve better solar access and amenity into the communal open space and apartments. This also creates a varied streetscape built form, and the setback tow-er element responds to the nearby Australia Towers and the approved Opal Tower.

SUCCESSEUL COMPETITION PROPOSAL

Jury List:

Peter Poulet (Chair) - NSW Government Architect Caroline Pidcock - Pidcock Architecture + Sustainability John Carfi - Mirvac Nick Hubble - Sydney Olympic Park Authority Paolo Razza - Mirvac **Richard Francis-Jones - FJMT**

DESIGN PROPOSAL

- The BVN competition proposal proposed both a complying and non-complying scheme. Both schemes proposed 3 buildings on the site and met the allowable GFA. The complying scheme met the height limit of 10 storeys on all the buildings, however the non-complying scheme proposed redistributing the GFA by increasing the height of the southern building to 16 storeys, and reducing the height of the northern-most building to 5 storeys. BVN recommended the non-complying approach.
- - The intention of this redistribution was to achieve a better urban outcome, with the variation in height providing visual relief from the otherwise relentless form of a consistent 10 storeys. In addition, the reduction of the northernmost building to 5 storeys provided access to sunlight into the garden courtyard of the development. The smaller northern form provided a building that met the scale of the large fig trees on the corner of Australia Avenue and Figtree Drive, and enabled a gentle approach to the corner of the site.
 - The taller building on the south eastern corner by contrast, had a scale more appropriate to a site gateway at the Australia Avenue approach - with the proposed Opal Tower(33 storeys) and existing Australia Towers(25 storeys) to the East. The increase of height had no reduction in amenity or overshadowing impact as the rail line and road is located to its south.
 - The proposed external materiality was proposed to be strong and simple, eschewing the elemental, multi material and haphazard nature of many modern residential developments. The smaller 5 storey building was proposed to be in a face brick, with vertically proportioned windows and openings, and elements such as recessed brickwork and perforated brickwork providing subtle detail. The remainder of the buildings were proposed in a roughcast white rendered masonry, resting on a face brick base, with staggered proportioned windows and balconies to create variety and patterning on the facade in a subtractive manner.

DESIGN JURY COMMENTS

HFIGHT

• The Design Jury supported the intention and urban design merit associated with the redistribution of floor space from the northern building to the southern building, However, the Jury considered the scale of the proposed 16-storey southern building to be too imposing and asked that consideration should be given to the height and massing of each building in order to achieve a successful balance.

GROUND PLANE

• The Design Jury also asked that consideration should be given to the design of the ground plane and communal open space, in particular the size and proportions of the space, the form and definition of the open space, the separation of public and private spaces, the level of solar access achieved and the usability of the spaces.

COMMUNAL FACILITIES

• The Design Jury asked that consideration be given to the inclusion of a community space within the development.

MATERIAL PALLETTE

• The Design Jury asked that consideration should be given to the treatment of the facade on the buildings to the south and west as they believed the sole use of rough cast white render was considered severe, particularly on the taller southern building, and the lack of articulation resulted in a flat and imposing structure. They suggested that consideration should be given to the diversity of materials and articulation across the site.

INCORPORATION OF JURY COMMENTS

COMMUNAL FACILITIES

functions and gatherings.

MATERIAL PALLETTE

• Comments of the Design Jury were taken into consideration and presented to and endorsed by the Design Review Panel as the selected competition proposal was developed.

HEIGHT, SCALE & GROUND PLANE

• The northern building remained at 5 storeys and the southern building was reduced to 15 storeys. In reducing the height to 15 storeys, the building was also moved further south toward the rail line, which had a significant impact on the central garden courtyard by increasing the sunlight in the middle of winter substantially. The 10 storey building which bordered the western side of the view corridor through the site was separated into 2 forms, which broke down the scale and provided visual and physical access to the garden at the west, thereby significantly increasing the size of connected landscaped space.

• A community space was located on the ground floor of the west building with immediate access to the external courtyard, providing internal and external areas for residents'

• A large degree of detail and resolution was added to the white masonry buildings to provide a greater degree of diversity and articulation, without losing the strength and simplicity of form. The podium brick was drawn up into the south-eastern corners of the South and East Buildings to provide a striking visual marker along Australia Avenue and the View Corridor. In addition, the window frames are dark metal, northern corners are articulated with a keystoning detail, and the parapets are livened in parts with brick frames that provide height adjustment and relief whilst connecting back to the south-eastern corners and podium.



VIEW 01 - COMPLIANT





VIEW 01 - NON COMPLIANT

VIEW 02 - NON - COMPLIANT

COMPETITION SCHEME



SOPA DESIGN REVIEW PANE PRESENTATION

SOPA DESIGN REVIEW PANEL PRESENTATION

ISSUE C

BUILDING HEIGHT AND FORM

ISSUE C





BUILDING HEIGHT RESPONSE 16 storey alternative competition scheme reduced to respond to the jury comments PERSPECTIVE VIEW FROM CORNER OF AUSTRALIA AND FIGTREE DRIVE The built form is broken down using vertical articulation, recessed corner balconies and castellations along the building parapets

BUILDING FOOTPRINT AND GROUND PLANE



FOOTPRINT RECONFIGURATION

The western building was split and realigned to improve solar access to communal open spaecs, cross ventilation, reduce the scale of the built form and allow for a unified communal open space

GROUND PLANE AND COMMUNAL FACILITIES The communal open spaces have been widened and connected, and a communal room added that pro-vides greater amenity for the residents

COMPETITION SCHEME VS ADJUSTED SCHEME



COMPETITION SCHEME The red dashed building outlines show the proposed changes in response to jury comments ADJUSTED SCHEME The resultant scheme with adjusted heights and split western building beyond

ISSUE



RESULTANT ADJUSTED SCHEME



MASSING STUDY 3D floor plate view of adjusted scheme TYPICAL FLOOR PLAN Reconfigured floor layouts showing western building split into 2 buildings, West and South building 1 Bed



SHADOW DIAGRAMS

8.00AM

June 21 shadow diagrams indicating Australia owers and their overshadowing impacts to the subject site.

11.00AM



2.00PM



9.00AM



12.00PM



10.00AM











BUILT FORM ARTICULATION AND MATERIALITY







VIEW FROM SOUTH WEST ALONG AUSTRALIA AVENUE

VIEW FROM SOUTH CORNER LINEAR PARK AND NEW STREET

MATERIALITY AND DETAILING

Proposed materiality for East, South and West buildings.



PERSPECTIVE VIEW FROM CORNER OF AUSTRALIA AVENUE AND FIGTREE DRIVE The built form is broken down using vertical articulation, recessed corner balconies and castellations along the building parapets



BVN RENDER Demonstrating facade articulation and warm coloured soffits



Possible pop out elements within the facade

WALLNER

53 -

SITE

SOPA

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CITY HALL IN BROCKHORST BY ATELIER PRO External vertical blade elements for sunshading and improved amenity between apartments

MATERIALITY AND DETAILING

Proposed materiality for North Building and podium



LORONG M TELOK KURAU HOUSE BY A D LAB Pty Ltd 'Hit and Miss' brickwork



TONGXIAN GATEHOUSE BY Office dA Articulated brickwork projections



QUARTIER DAMIANUS BY ENGELMAN ARCHITECTEN Textured brickwork



PROPOSED NORTH BUILDING ARTICULATION AND MATERIALITY

SOPA DESIGN REVIEW PANEL PRESENTATION

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DEVELOPMENT APPLICATION SCHEME

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