



136-148 NEW SOUTH HEAD ROAD, EDGECLIFF

Indicative Concept Report

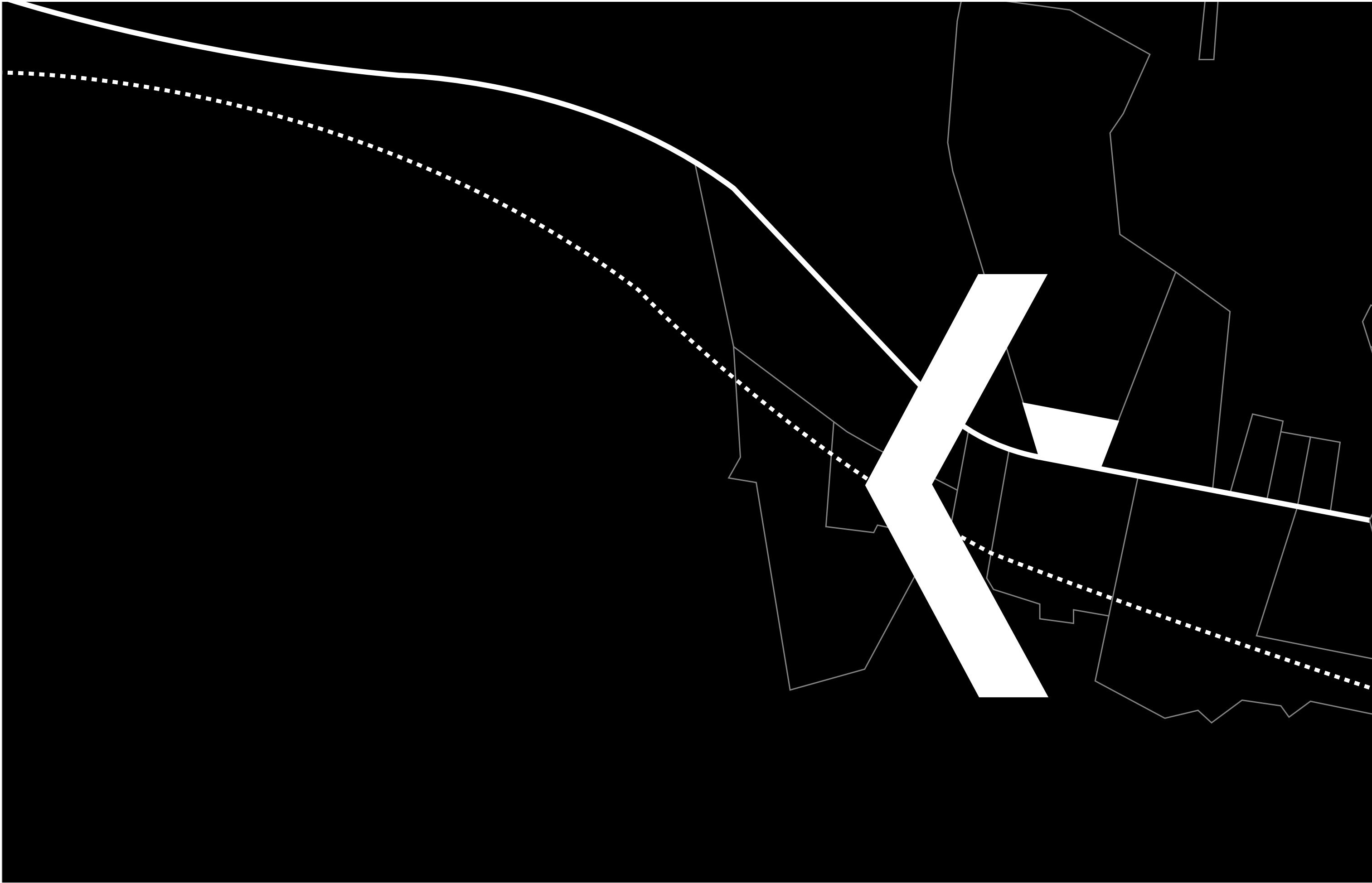
Appendix D

We acknowledge the Gadigal and Birrabirragal people who are traditional custodians of the land, and pay our respects to their elders past present and emerging, recognising their continuing connection to land, waters and culture.

Issue	Title	Date	Prepared	Checked
1	Pre-lodgement Draft Issue	08/02/21	AE/JK/JC/HR/DN	AE/JK
2	Pre-lodgement Issue	10/02/21	AE/JC/DN	JC
3	Draft issue for review	06/08/21	NO/DD/DN	JK
4	Draft issue for review	23/08/21	NO/DD/DN	AE/JK
5	Draft issue for review	30/08/21	NO/DD/DN	AE/JK
6	Draft issue for review	03/09/21	DN	AE/JK
7	Issue for Lodgement	07/09/21	DN	AE/JK
8	Appendix D for Public Exhibition	21/07/23	PL	AE
9	Appendix D for Public Exhibition	24/07/23	PL/JK	AE/JK

CO N TENTS

- 01. 60 NEW SOUTH HEAD ROAD 6-7
- 02. VIEW FROM SUN 8-9
- 03. SHADOW DIAGRAMS 10-13
- 04. TRUMPERPARKOVAL 14



SOLAR ANALYSIS

ADDENDUM A

01

160 NEW SOUTH HEAD ROAD

The following diagrams have been prepared to illustrate the solar access to the adjacent shop-top housing building at 160 New South Head Road.

The below is a summary of testing and compliance to be reviewed in relation to this development.

Woollahra DCP 2015

Chapter D4 Edgecliff Centre, Part D > Business Centres:

Objective O18: To protect the amenity of adjoining residential zoned land.

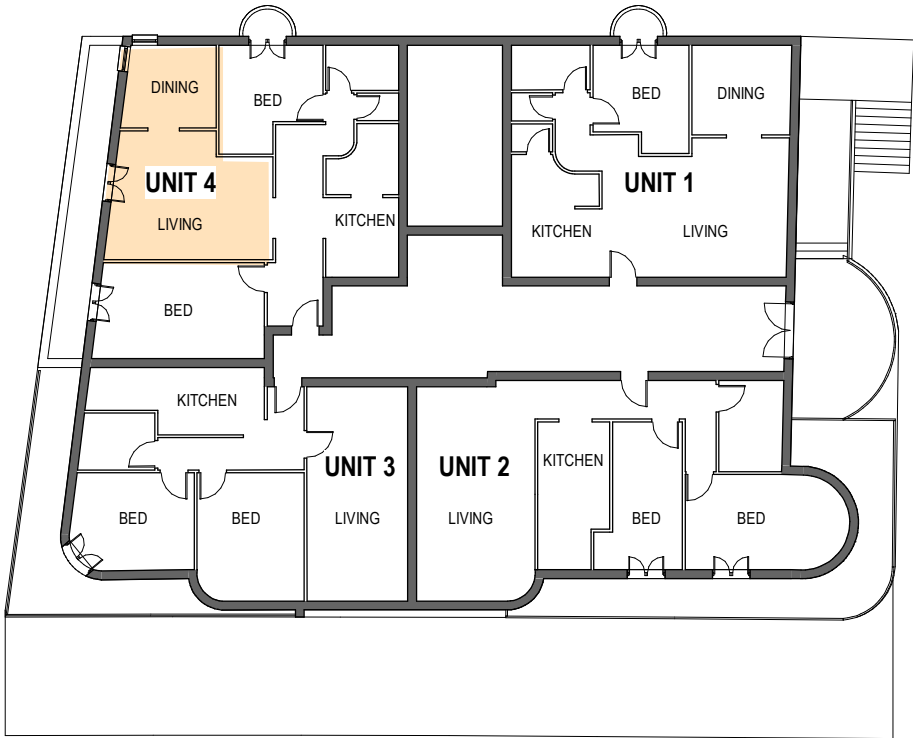
Controls C28: Development maintains solar access to existing adjoining dwellings for a period of two hours between 9am and 3pm on 21 June to existing north facing windows of habitable rooms, and for at least two hours to at least 50% of the private open space. Where existing overshadowing is greater than this, sunlight is not to be further reduced.

SEPP65 ADG

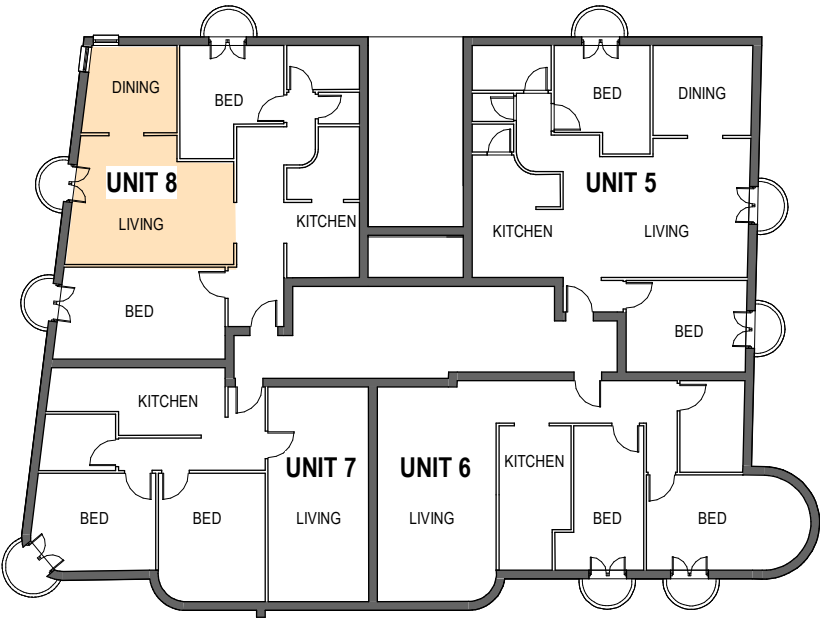
In relation to Objective 3D-1, relating to communal open space. Design Criteria 2 states: Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9 am and 3 pm on 21 June (mid winter).

To Objective 4A-1, relating to direct sunlight to living rooms and private open space. Design Criteria 1 states: Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at midwinter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas.

Comment - as can be seen in the plans for No 160, the only potentially affected apartment with north facing living areas is the dwelling in the NW corner of the building. The dwelling in the SW corner of the building has south facing living areas (and west facing secondary windows) and as such pursuant to the DCP, to solar access requirements do not apply. These apartments also have access to the rooftop communal space. Therefore the following analysis relates only to the communal space and the NW apartment.

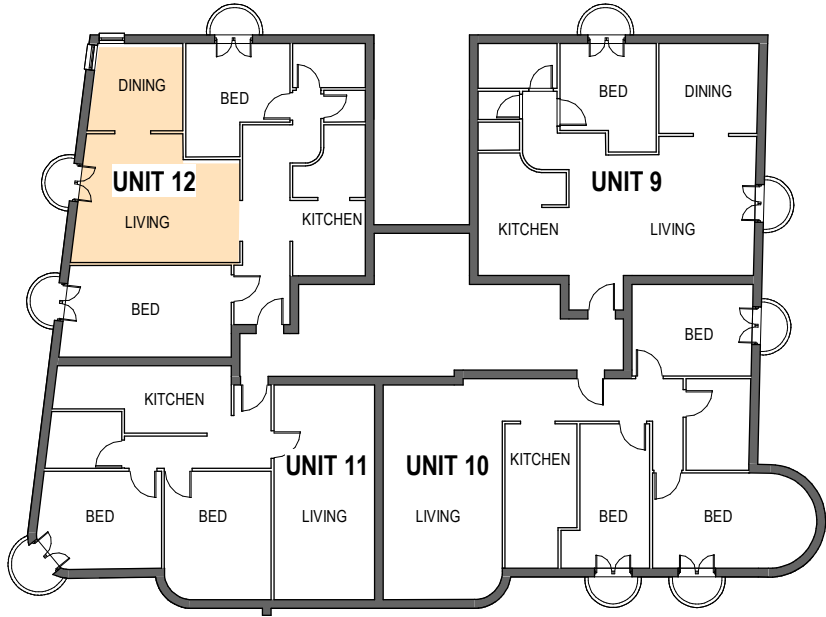


FIRST FLOOR

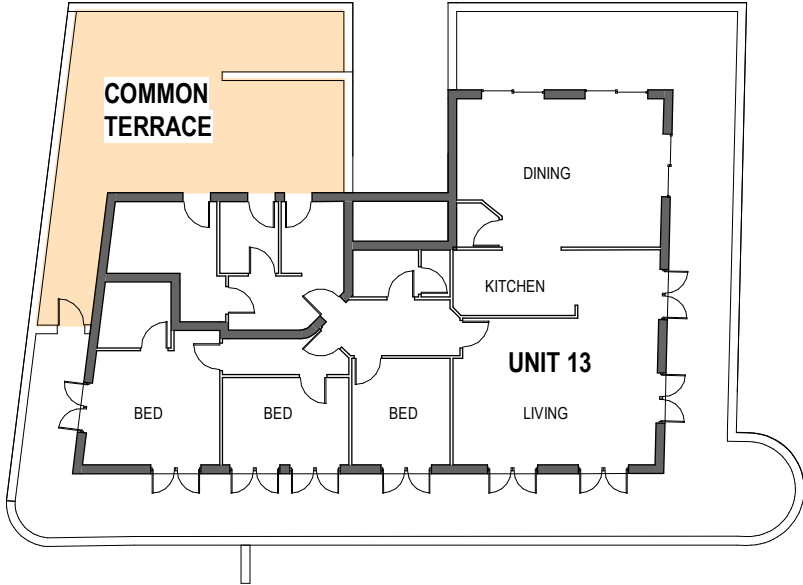


SECOND FLOOR

160 NEW SOUTH HEAD ROAD



THIRD FLOOR



FOURTH FLOOR

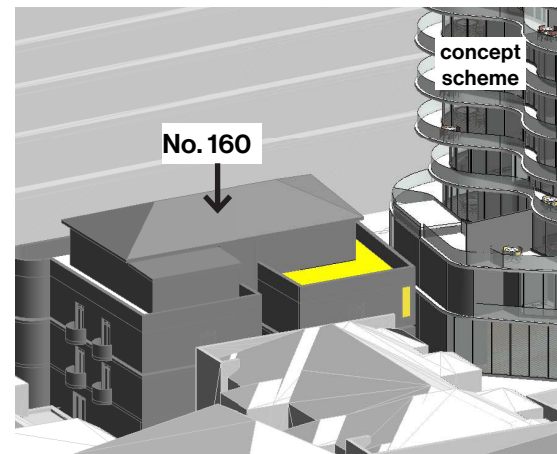
VIEW FROM SUN DIAGRAMMS

160 NEW SOUTH HEAD ROAD

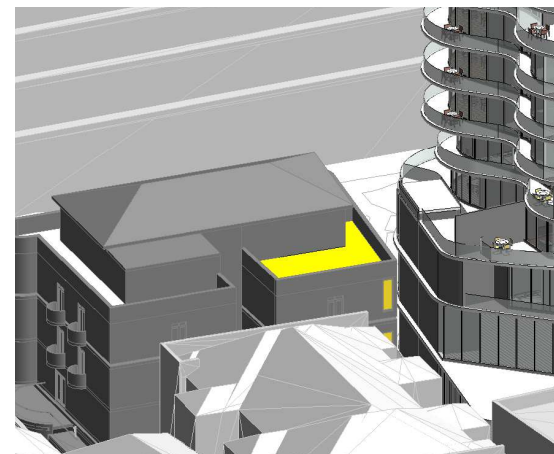
The following diagrams have been prepared to illustrate the solar access to the adjacent shop-top housing building at 160 New South Head Road.

The adjacent digrams test the solar access to the adjoining building, with a particular focus on the living rooms of the north west apartment and the communal space.

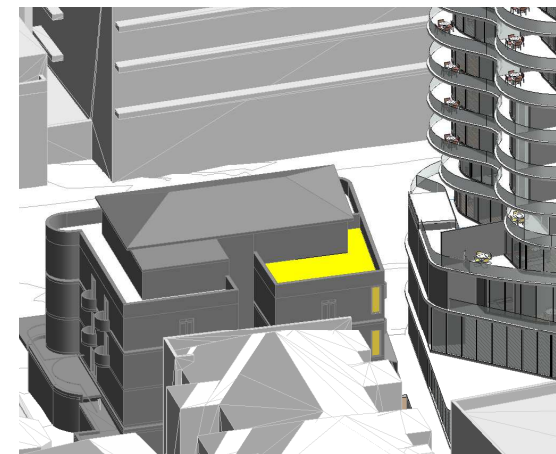
In these diagrams, we have coloured these areas in yellow, to assist the review.



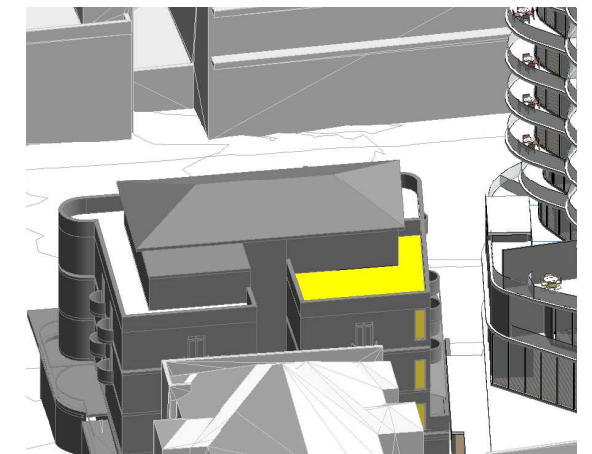
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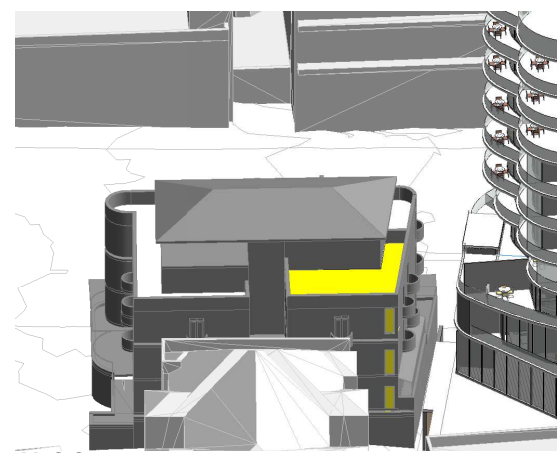
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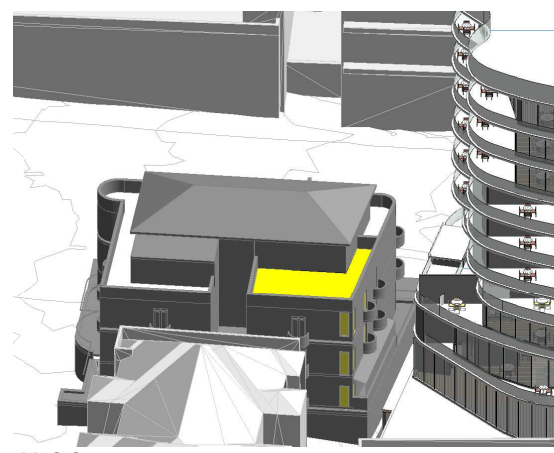
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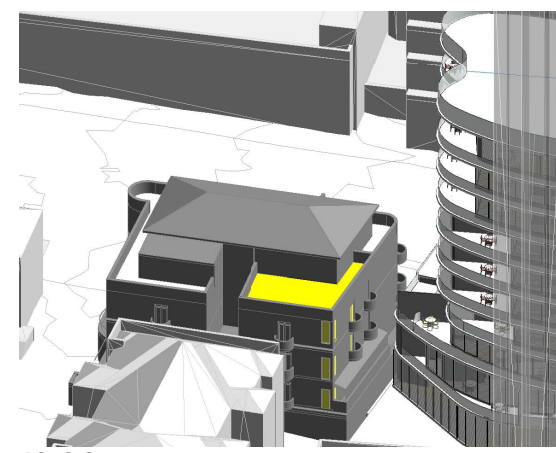
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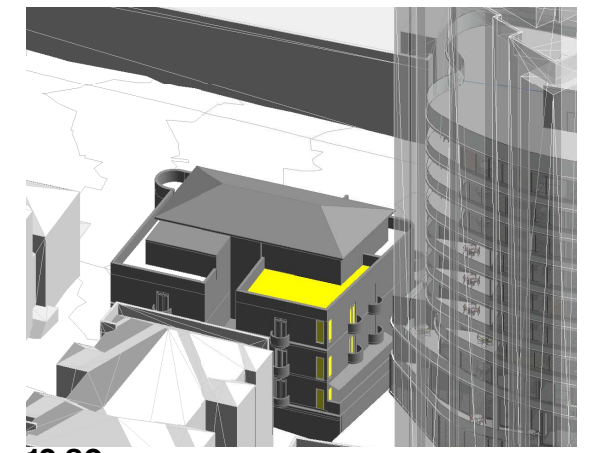
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11:30



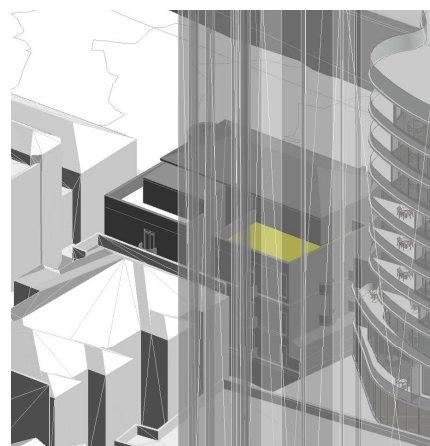
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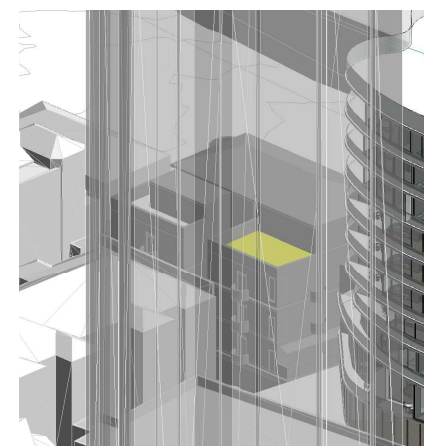
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13:00



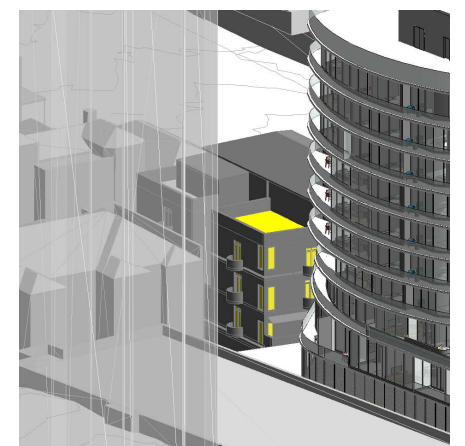
13:30



14:00



14:30



15:00

SOLAR ANALYSIS

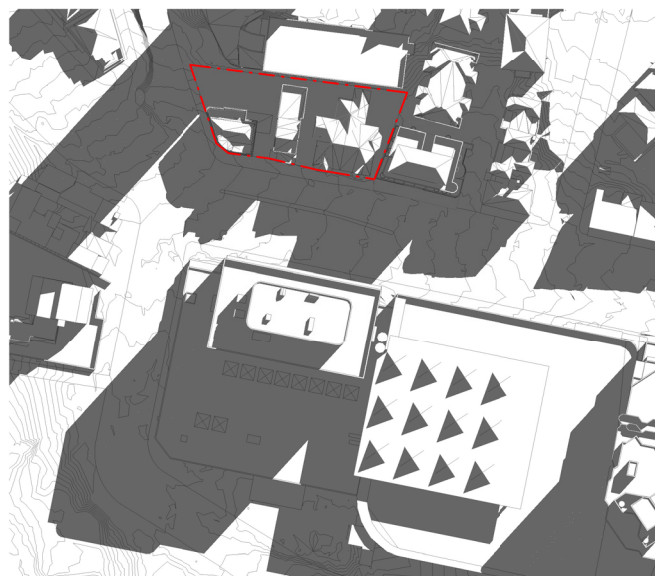
160 NEW SOUTH HEAD ROAD

The following table provides a summary of when the living/dining room of the north west apartments and communal space receives midwinter solar access taking into account the impact of the proposed concept plan.

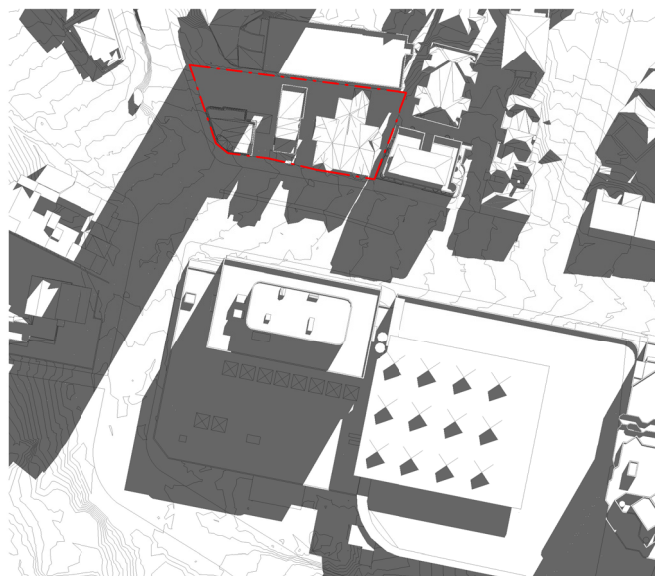
As can be seen, all of the subject apartments and the communal space receive a minimum of 2 hours solar access at midwinter. In fact as can be seen, the vast majority of impact is caused by the existing Ranelagh building with the concept having only limited impact at 3pm.

Subject Unit	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00
UNIT 4 (NW - 1st Floor)	-	-	-	Y	Y	Y	Y	Y	-	-	-	-	Y
UNIT 8 (NW - 2nd Floor)	-	-	Y	Y	Y	Y	Y	Y	-	-	-	-	Y
UNIT 12 (NW - 3rd Floor)	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	Y
COMMUNAL SPACE - 4TH FLOOR	Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	Y

SHADOW DIAGRAMS - EXISTING SHADOW



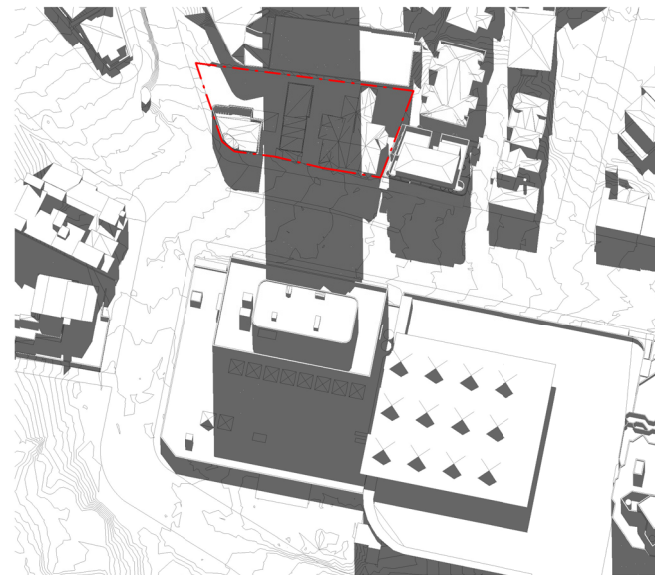
1 SHADOW DIAGRAM - 9AM 21ST JUN - EXISTING CONTEXT
1:1250



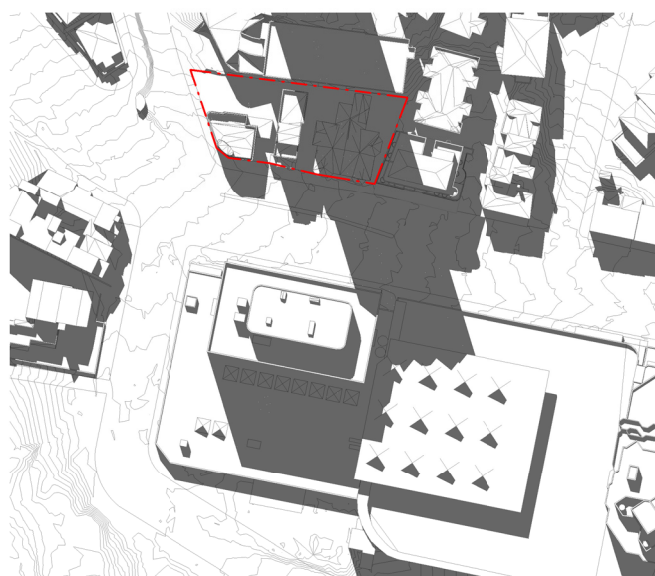
2 SHADOW DIAGRAM - 10AM 21ST JUN - EXISTING CONTEXT
1:1250



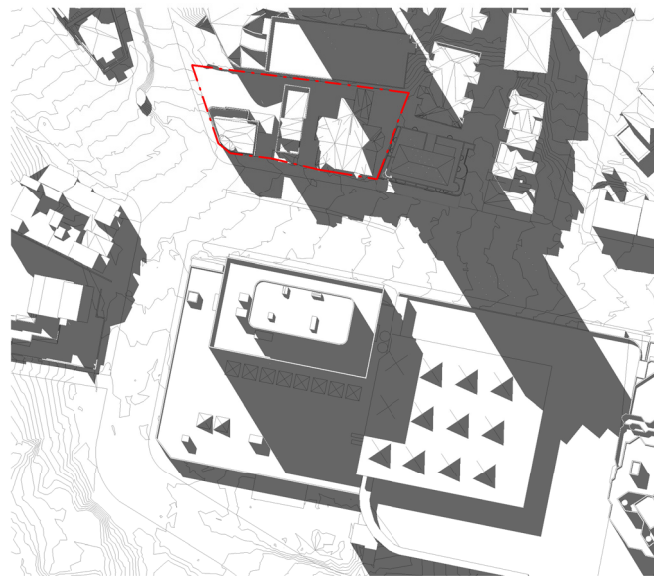
3 SHADOW DIAGRAM - 11AM 21ST JUN - EXISTING CONTEXT
1:1250



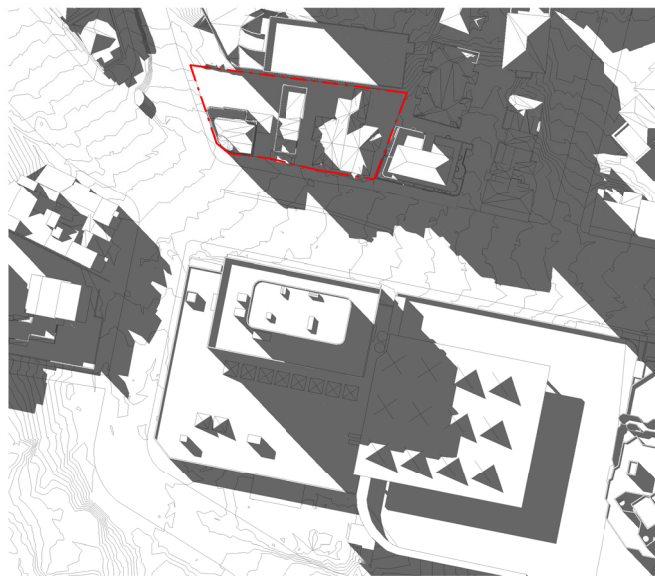
4 SHADOW DIAGRAM - 12PM 21ST JUN - EXISTING CONTEXT
1:1250



5 SHADOW DIAGRAM - 1PM 21ST JUN - EXISTING CONTEXT
1:1250



6 SHADOW DIAGRAM - 2PM 21ST JUN - EXISTING CONTEXT
1:1250

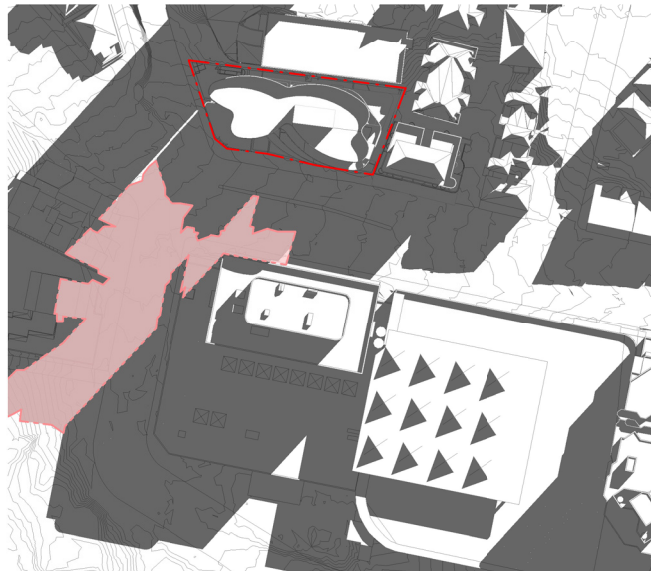


7 SHADOW DIAGRAM - 3PM 21ST JUN - EXISTING CONTEXT
1:1250

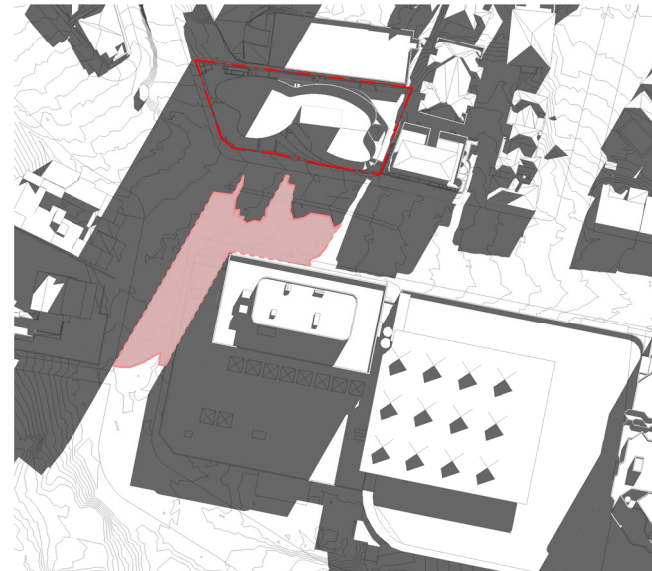
Existing Shadow Diagrams

These diagrams illustrate the shadows created from the existing context and buildings on the subject site.

SHADOW DIAGRAMS - ADDITIONAL- SHADOW



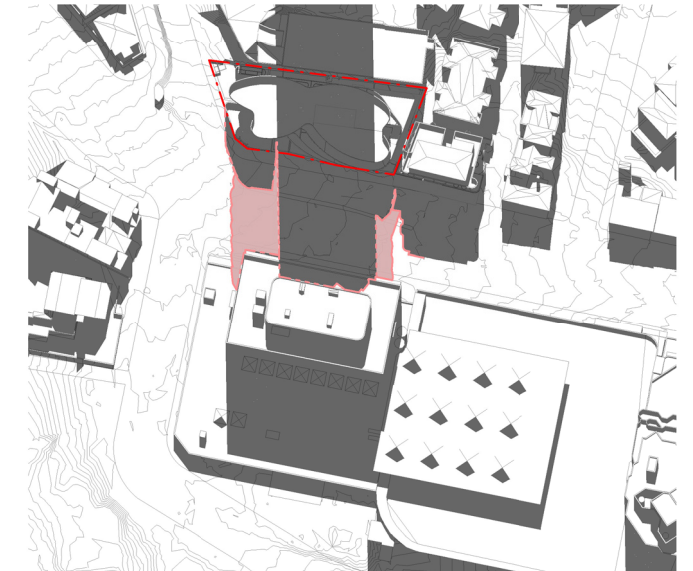
① SHADOW DIAGRAM - 9AM 21ST JUN - PROPOSED SHADOWS
1: 1250



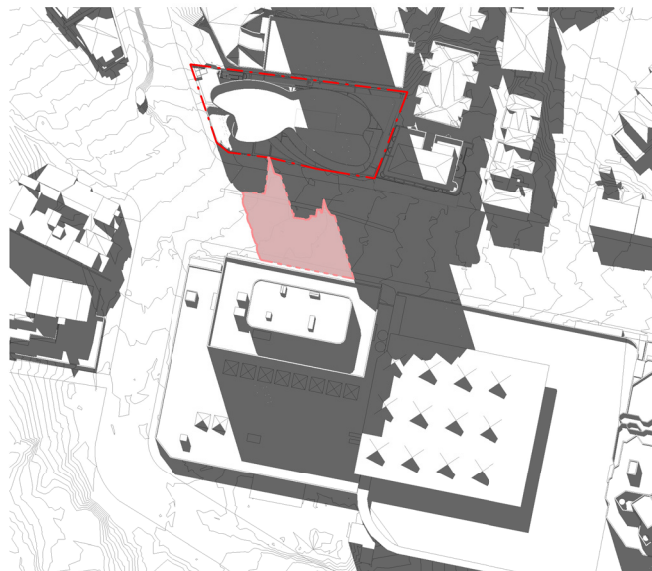
② SHADOW DIAGRAM - 10AM 21ST JUN - PROPOSED SHADOWS
1: 1250



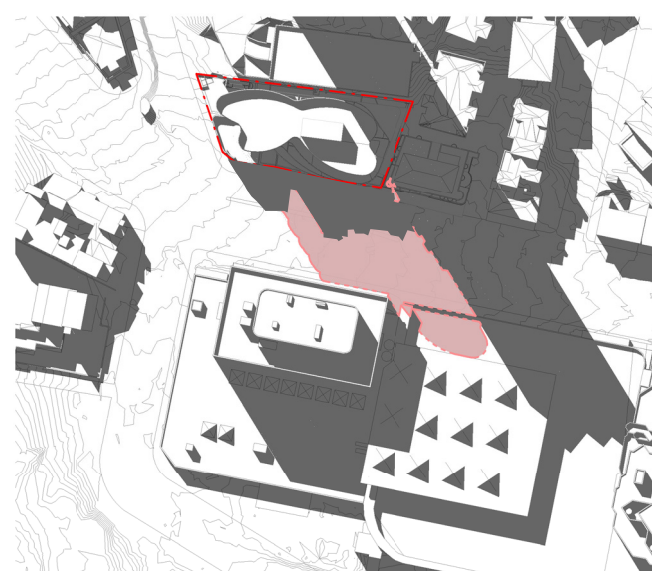
③ SHADOW DIAGRAM - 11AM 21ST JUN - PROPOSED SHADOWS
1: 1250



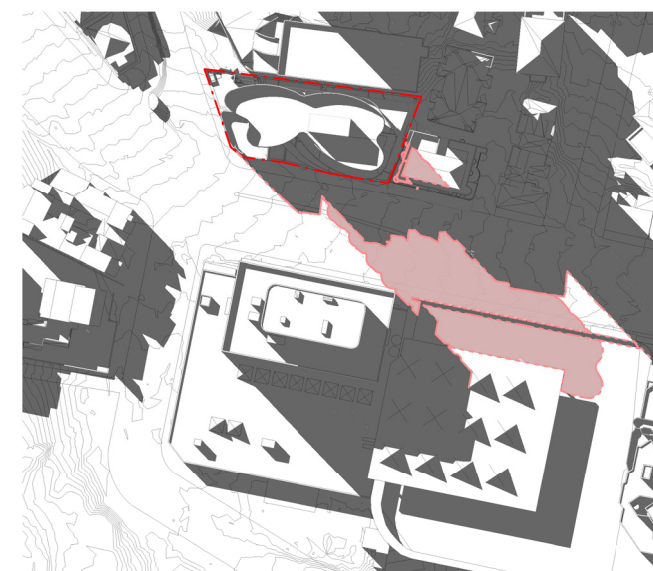
④ SHADOW DIAGRAM - 12PM 21ST JUN - PROPOSED SHADOWS
1: 1250



⑤ SHADOW DIAGRAM - 1PM 21ST JUN - PROPOSED SHADOWS
1: 1250



⑥ SHADOW DIAGRAM - 2PM 21ST JUN - PROPOSED SHADOWS
1: 1250



⑦ SHADOW DIAGRAM - 3PM 21ST JUN - PROPOSED SHADOWS
1: 1250

Proposed Shadow Diagrams

These diagrams illustrate the shadows created from the existing context and the concept design proposed for the subject site, as contained within this section of the report.

Where the proposed building shadow falls outside of the existing Ranelagh Tower shadow, the additional shadows have negligible impacts, with shadows largely falling onto New South Head Road, lower levels of the Edgecliff Centre commercial building, or the hardstand of the bus interchange to the south.

 Additional shadow from
indicative concept design

PUBLIC DOMAIN PLAN STUDY - ‘PREFERRED’

The subject Public Domain Plan and the ‘Preferred’ and ‘Alternate’ location of the Plaza have only been included in the draft Edgecliff Commercial Centre Strategy documentation for its initial public exhibition. This exhibition occurred around September 2021 and it has not yet been reported back to Council almost 2 years later. There are many steps in the process before the plaza location can be enshrined in any planning legislation and for these reasons there is absolutely no certainty that it will ultimately be located where it is presently shown. Therefore, notwithstanding the following analysis, it is the applicants position that such analysis should not be taken into account in the assessment of the subject planning proposal, particularly when the redevelopment of the subject site was not taken into account in the draft Strategy documents.

As can be seen opposite the indicative ‘Preferred’ plaza receives solar access in varying degrees throughout the day from 9am to 3pm at midwinter, even accounting for the proposal. This is also the case for the 10am-2pm period which is noted in the draft Strategy as the period when existing and proposed public spaces should receive a minimum of 2 hours solar access. There are parts of the plaza that would meet this requirement and so a technical compliance with this requirement could be argued.

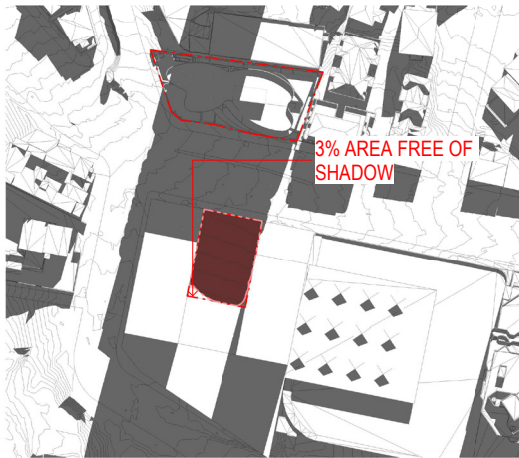
However, the overall level of solar access particularly at the critical core hour of 12-1pm is limited. As can be seen, in this hour, it is not the proposed concept that creates the vast majority of the shadow – it is the Ranelagh building. This indicates that this location is a poor choice in terms of lunchtime amenity for workers in the area. Limiting the height of the proposal would only make a material difference from 11-1130am and 1-130pm, which is insufficient justification to retain the plaza in this location. It would also sterilise the subject site from redevelopment. There are also significant amenity impacts from road noise and pollution that make this location undesirable



1 SHADOW DIAGRAM - 9AM 21ST JUN - 01
1:1250



2 SHADOW DIAGRAM - 10AM 21ST JUN - 01
1:1250



3 SHADOW DIAGRAM - 11AM 21ST JUN - 01
1:1250



4 SHADOW DIAGRAM - 12PM 21ST JUN - 01
1:1250



5 SHADOW DIAGRAM - 1PM 21ST JUN - 01
1:1250



6 SHADOW DIAGRAM - 2PM 21ST JUN - 01
1:1250



7 SHADOW DIAGRAM - 3PM 21ST JUN - 01
1:1250

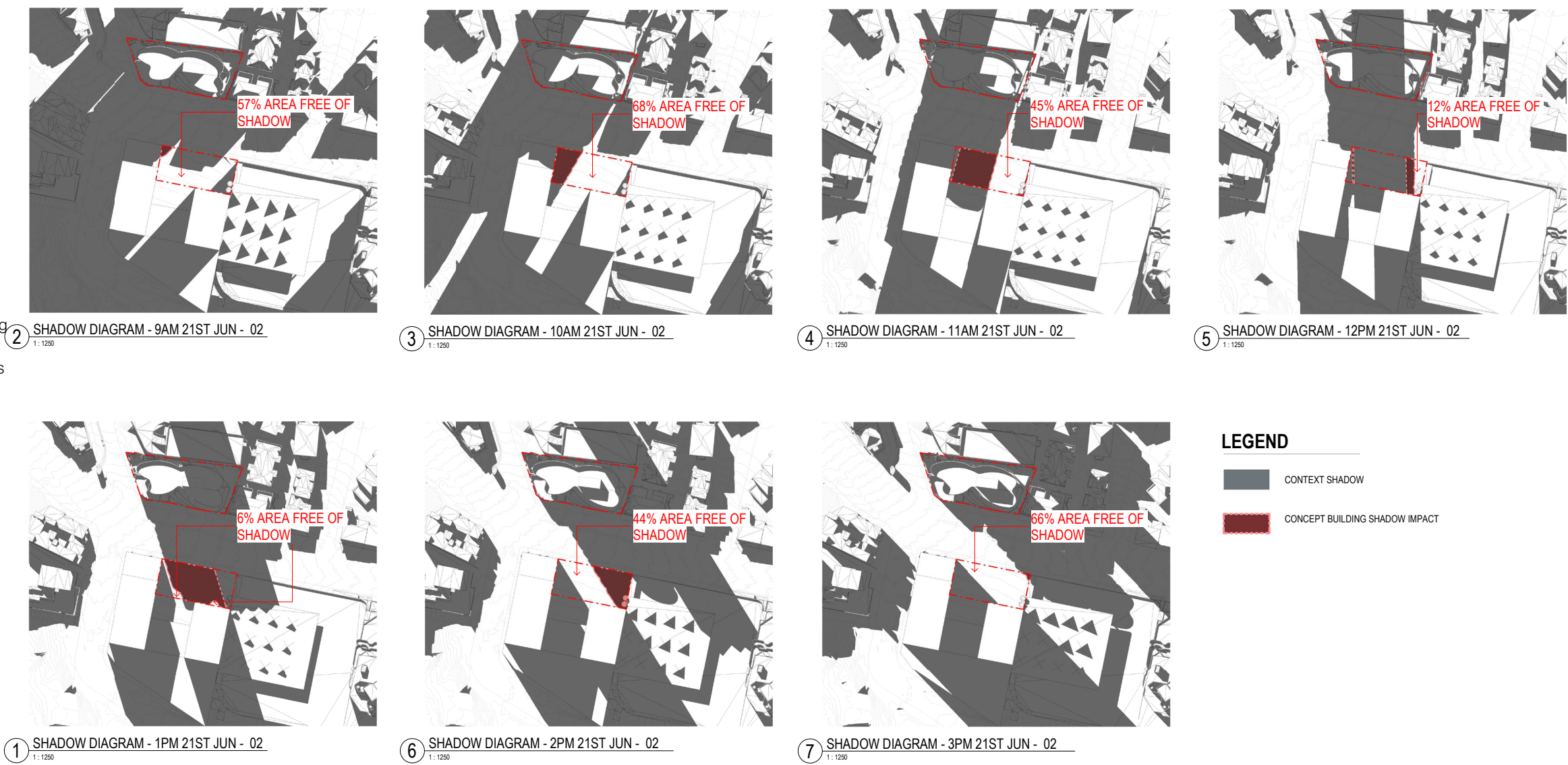
LEGEND

- CONTEXT SHADOW
- CONCEPT BUILDING SHADOW IMPACT

PUBLIC DOMAIN PLAN STUDY - 'ALTERNATE'

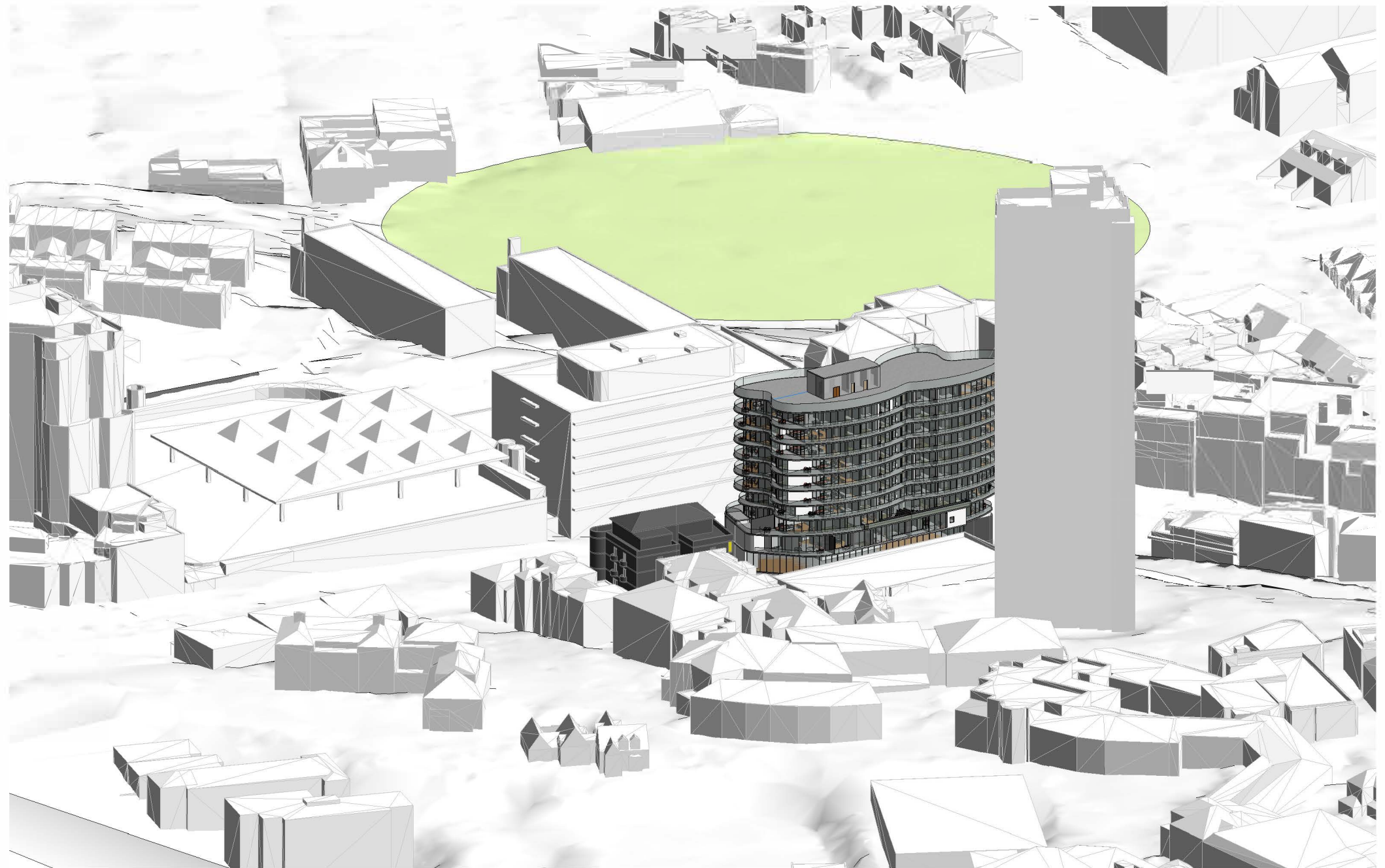
In relation to the 'Alternate' plaza location shown here, whilst the overall level of solar access is better than the 'Preferred' location, it performs even more poorly in the critical 12-1pm period. The proposal has minimal impact at 12 noon (when the impact is predominantly from Ranelagh) but at 1pm it is significant. Again there are parts of the plaza that would meet the 2 hours requirement and so a technical compliance could be argued. However the overall outcome is not ideal and the impact of traffic noise and pollution would be worse than the 'Preferred' Option as it has a longer frontage to New South Head Road.

Limiting the height of the proposal would have only limited benefit and would have the effect of sterilising the redevelopment of the subject site. Given the overall poor amenity achieved from this location, this outcome could not be justified.



TRUMPER PARK OVAL

The greatest potential for overshadowing from the proposal is at 9am at midwinter. As indicated here, the proposal will not affect Trumper Park at this time and shadows would be even less at other times of the day in the 9am-3pm period. This ensures the Woollahra DCP requirement to maintain 2 hours solar access to the park between 10am and 2pm is achieved by the proposal



9AM - VIEW FROM THE SUN

[Redacted]

SYDNEY

Level 7, 80 William Street
East Sydney NSW 2011
Australia

MELBOURNE

Level 1, 104 Exhibition Street
Melbourne VIC 3000
Australia

BRISBANE

Level 14, 100 Edward Street
Brisbane QLD 4000
Australia

PERTH

Level 2, 307 Murray Street
Perth WA 6000
Australia

SHANGHAI

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HO CHI MINH CITY

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Vietnam