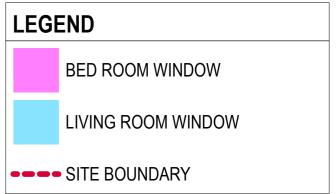
### **Attachment A4**

**Solar Access Study** 





= 14L1 ===

	TOTAL HOURS OF SUN ON JUNE 21 BETWEEN 9AM - 3PM		
WINDOW	<b>EXISTING BUILDING</b>	PROPOSED ENVELOPE	DCP COMPLIANT ENVELOPE
10L1	1.25 hours	0.25 hours	0 hours
10B1	2.5 hours	1 hour	0 hours
12B1	2.25 hours	1.25 hours	1.25 hours
12B2	2.5 hours	2.5 hours	2.5 hours
14L1	2.75 hours	2.75 hours	2.75 hours
14B1	2.75 hours	2.75 hours	2.75 hours
14B2	2.75 hours	2.75 hours	2.75 hours

10 Caldwell Street - The proposed building envelope reduces solar access from 2.5 hours to 1 hour. The DCP compliant envelope reduces solar access to 0.

12 Caldwell Street - The proposed development reduces solar access to one bedroom window (12B1) however does not reduce overall existing solar access of 2.5 hours. This is consistent with DCP compliant envelope.

14 Caldwell Street - The proposed development does not reduce overall solar access. This is consistent with DCP compliant envelope.

10-12 Nimrod Street, Darlinghurst

**NOTE:** Windows 10B2 and 10B3 of number 10 Caldwell st are not included in calculations as they are along site side boundary and are not windows to primary living areas. Refer excerpt from City of Sydney DCP 2012 below:

#### 4.1.3.1 Solar access

SITE BOUNDARY

- Overshadowing of windows along side boundaries by new development is permissible, except in the circumstances within provision (6) below.
- Daylight access is to be addressed where:
  - the side windows of an adjoining dwelling are facing and/or perpendicular to the boundary and are less than 1.5m from the side boundary; and
  - the side windows in (a) are the only windows to the primary living area of a neighbouring dwelling;

#### **CONCLUSION:**

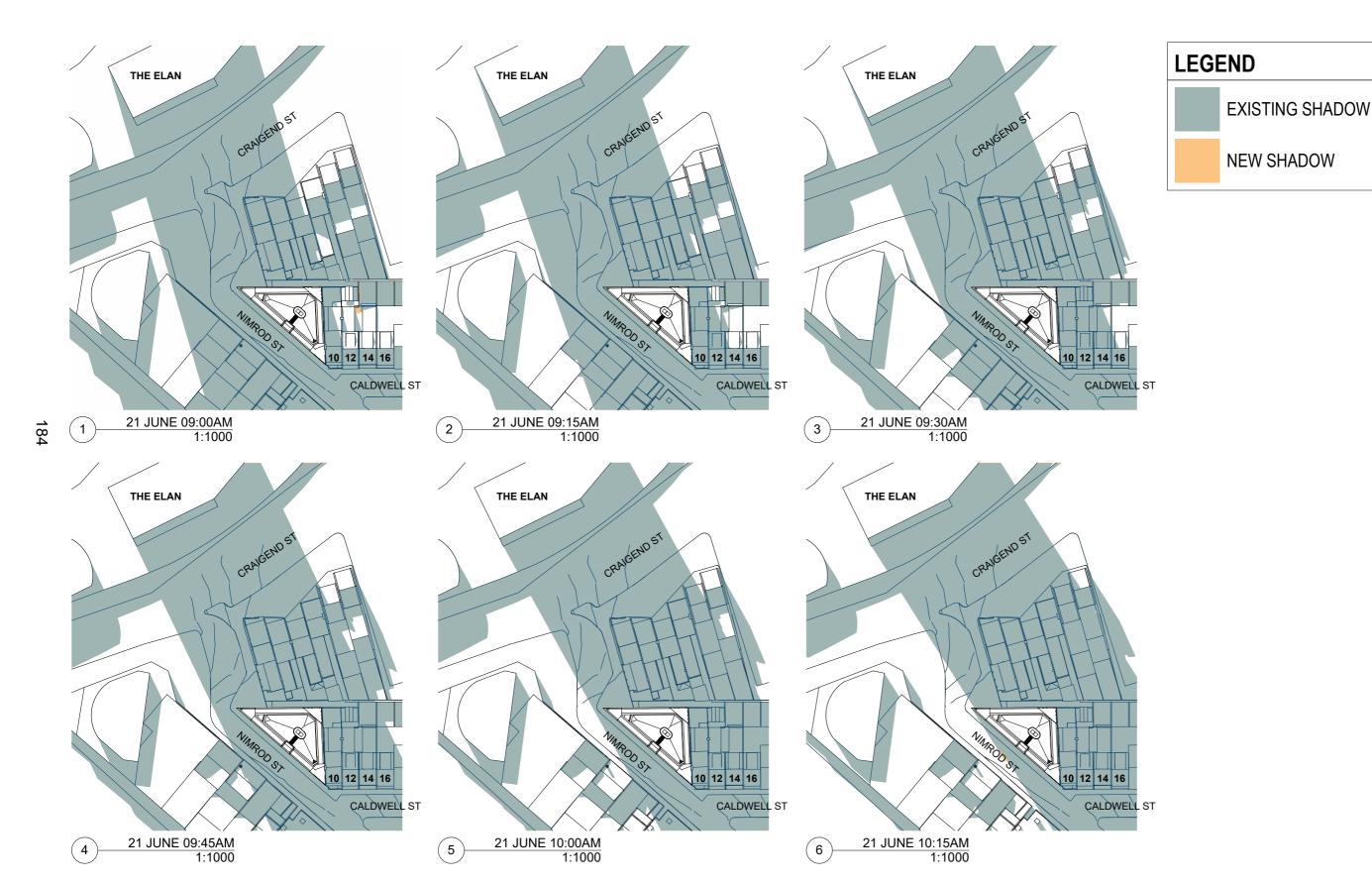
Proposal with a shaped roof form will mitigate overshadowing to neighbouring residences better than the DCP envelope

SBW STABLES THEATRE REDEVELOPMENT I PLANNING PROPOSAL

**URBAN CONTEXT REPORT** 

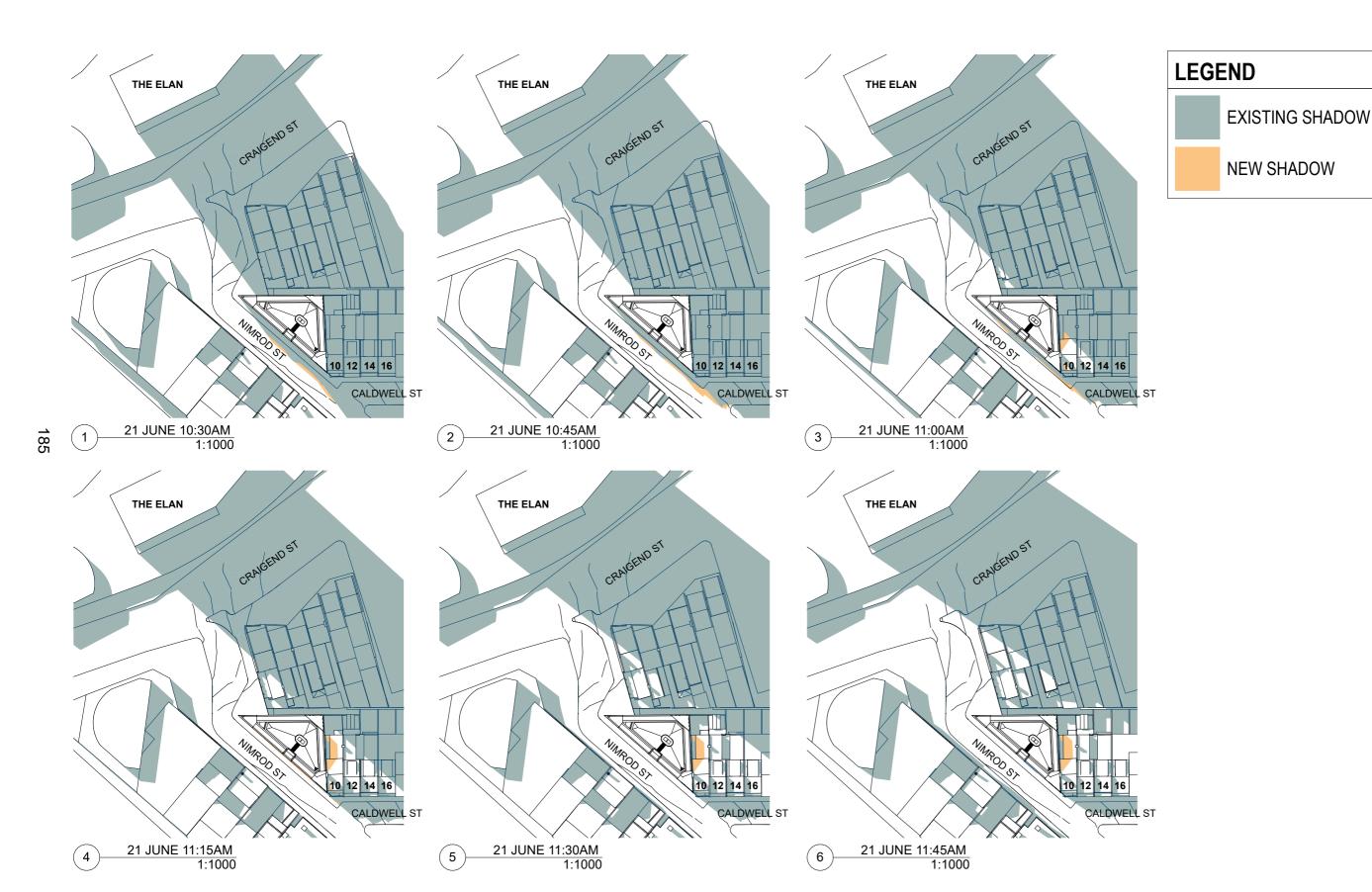
5/8/22

### AERIAL SHADOW DIAGRAMS 21 JUNE 09:00am - 10:15am





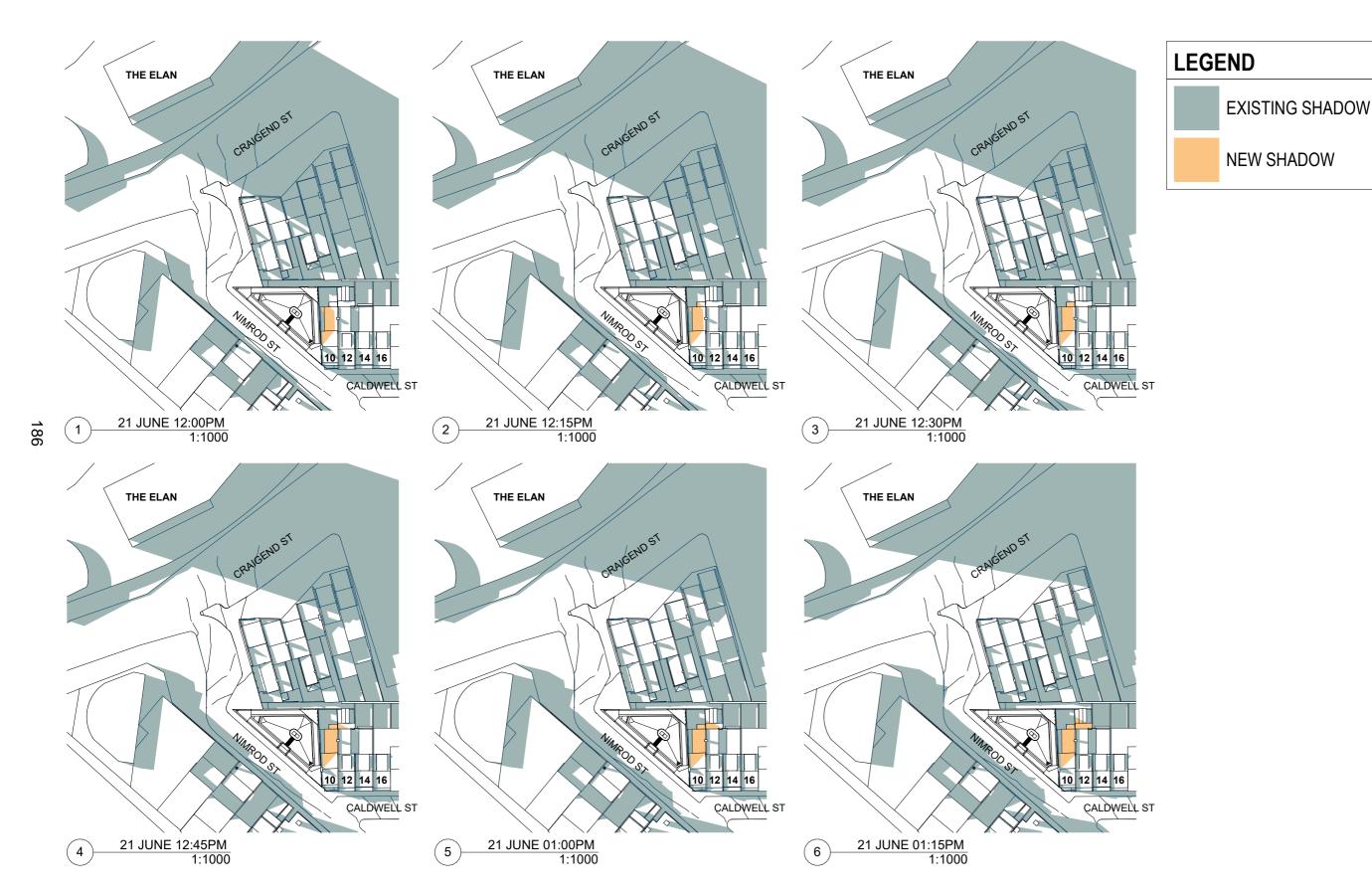
### **AERIAL SHADOW DIAGRAMS 21 JUNE 10:30am - 11:45am**





10-12 Nimrod Street, Darlinghurst

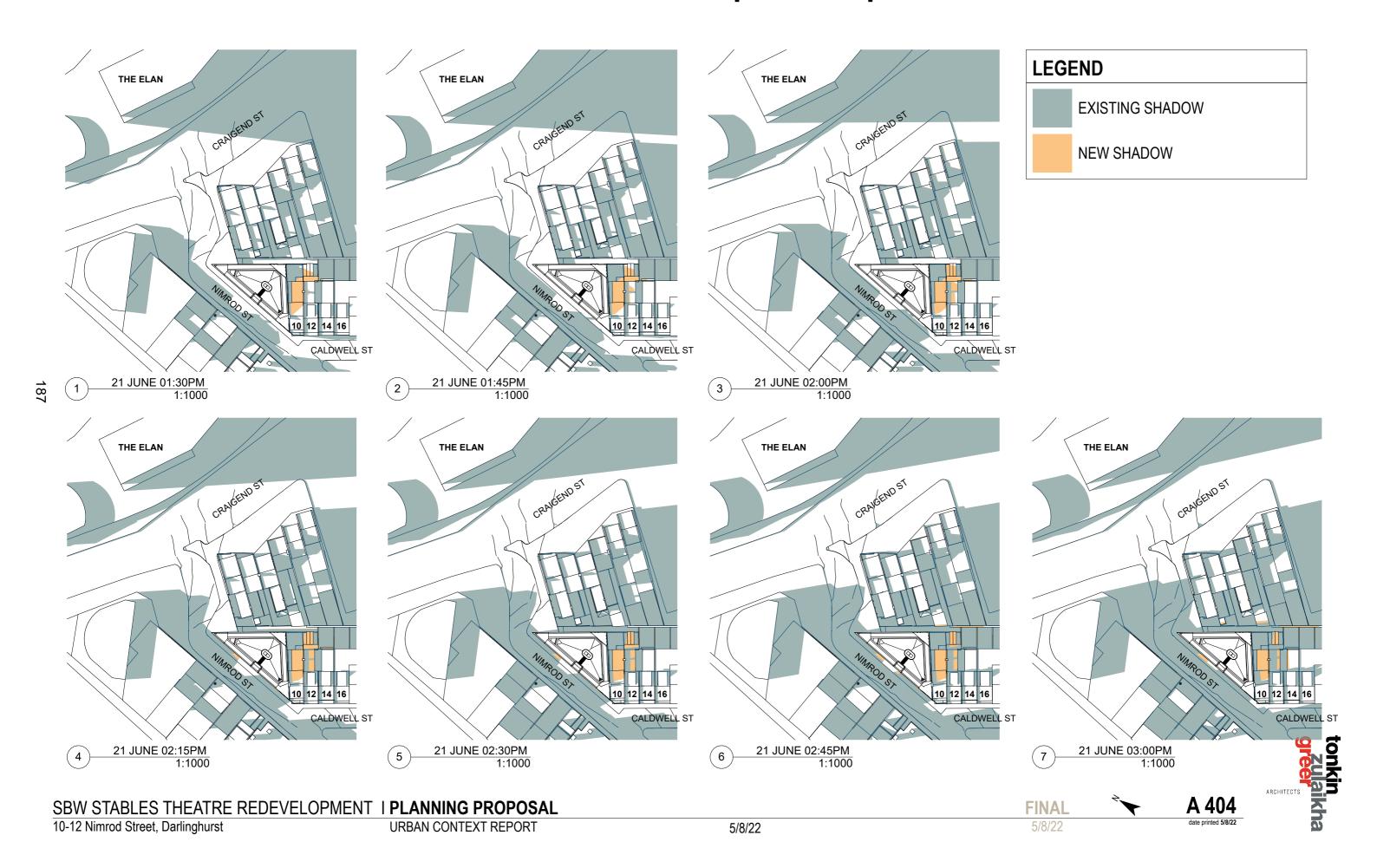
# AERIAL SHADOW DIAGRAMS 21 JUNE 12:00pm - 1:15pm





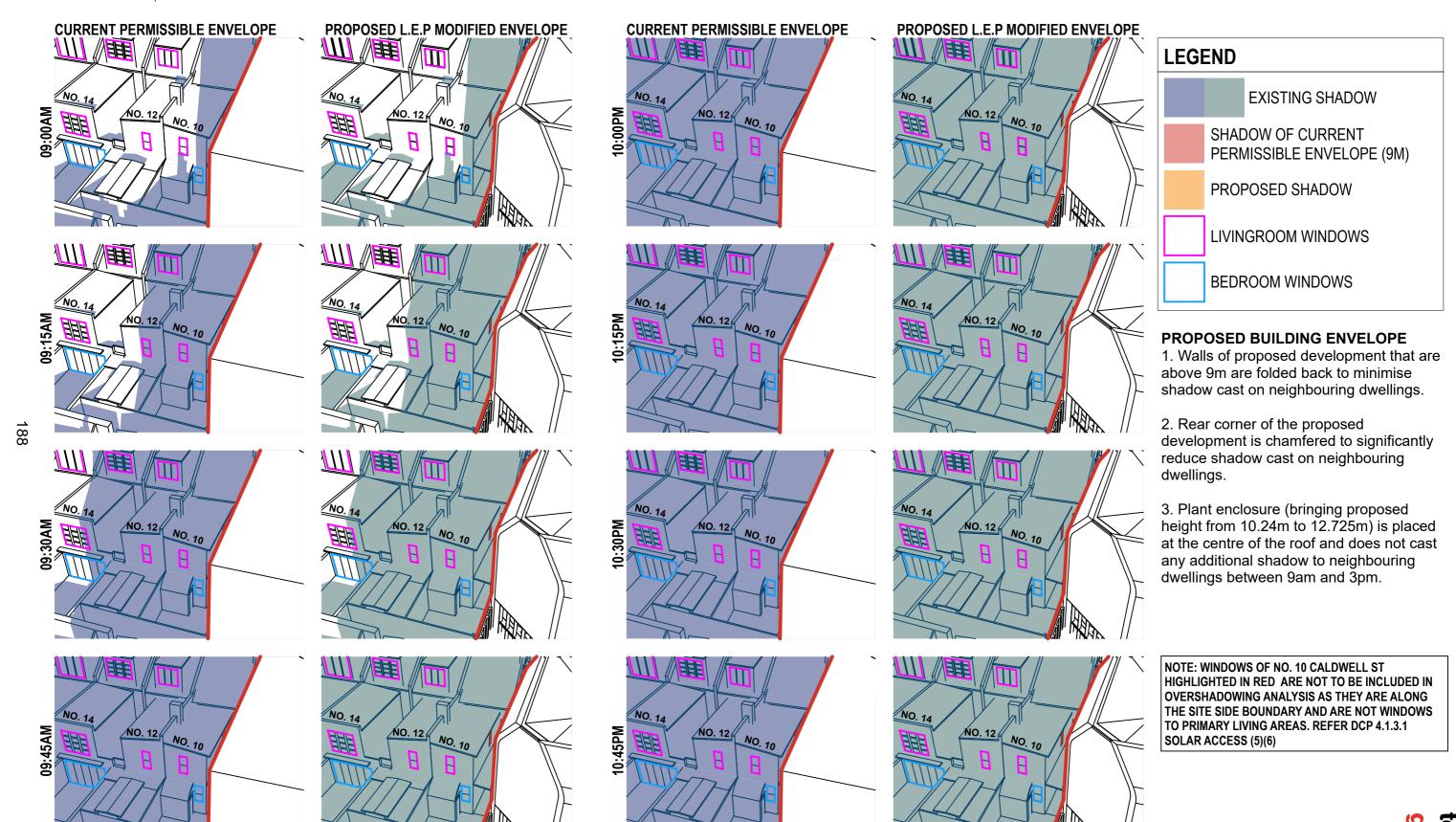


## AERIAL SHADOW DIAGRAMS 21 JUNE 01:30pm - 3:00pm



### 3D SHADOW DIAGRAMS 21 JUNE 9AM - 10:45AM

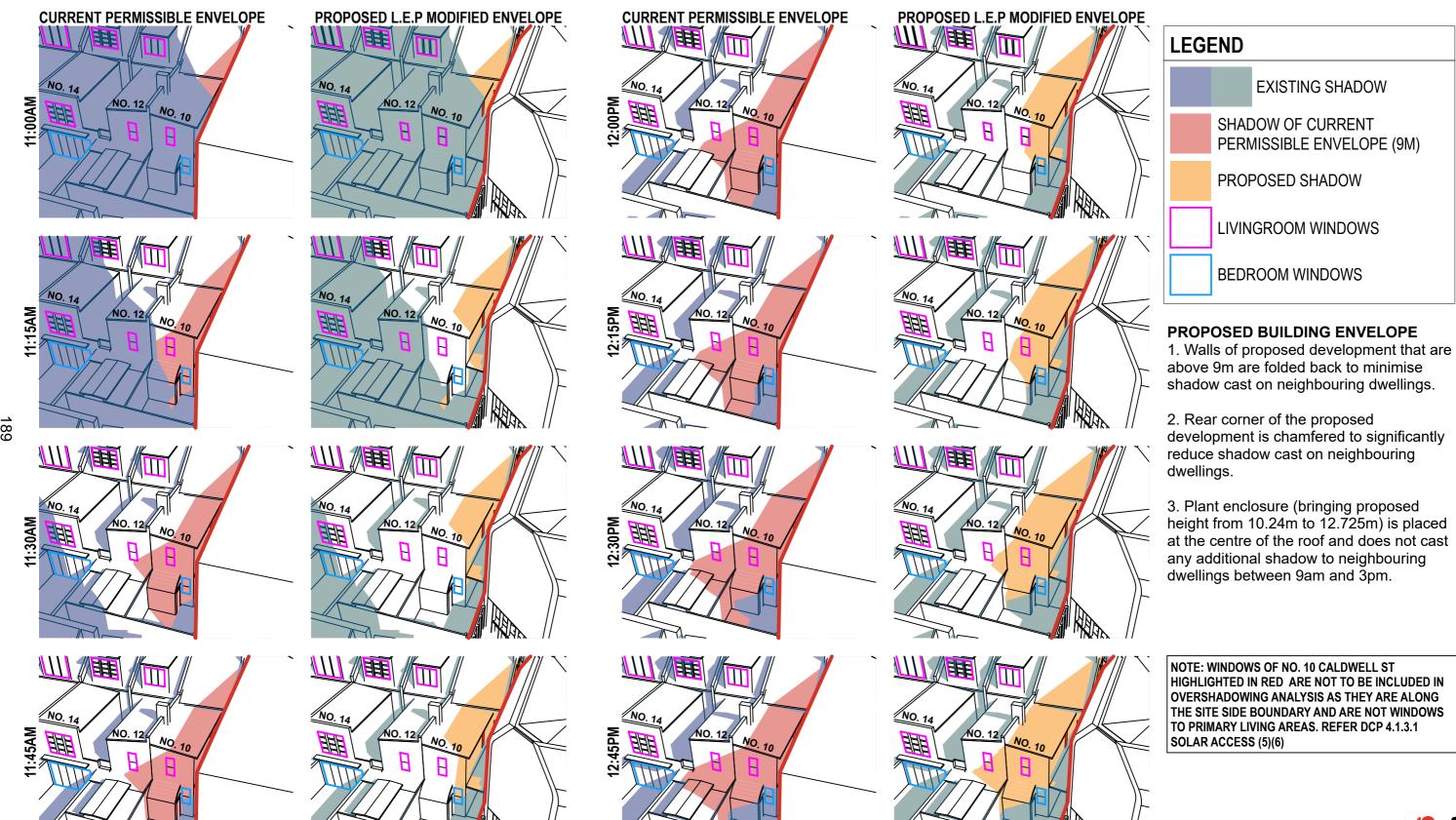
REAR OF NO. 10, 12 & 14 CALDWELL STREET



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### 3D SHADOW DIAGRAMS 21 JUNE 11AM-12:45PM

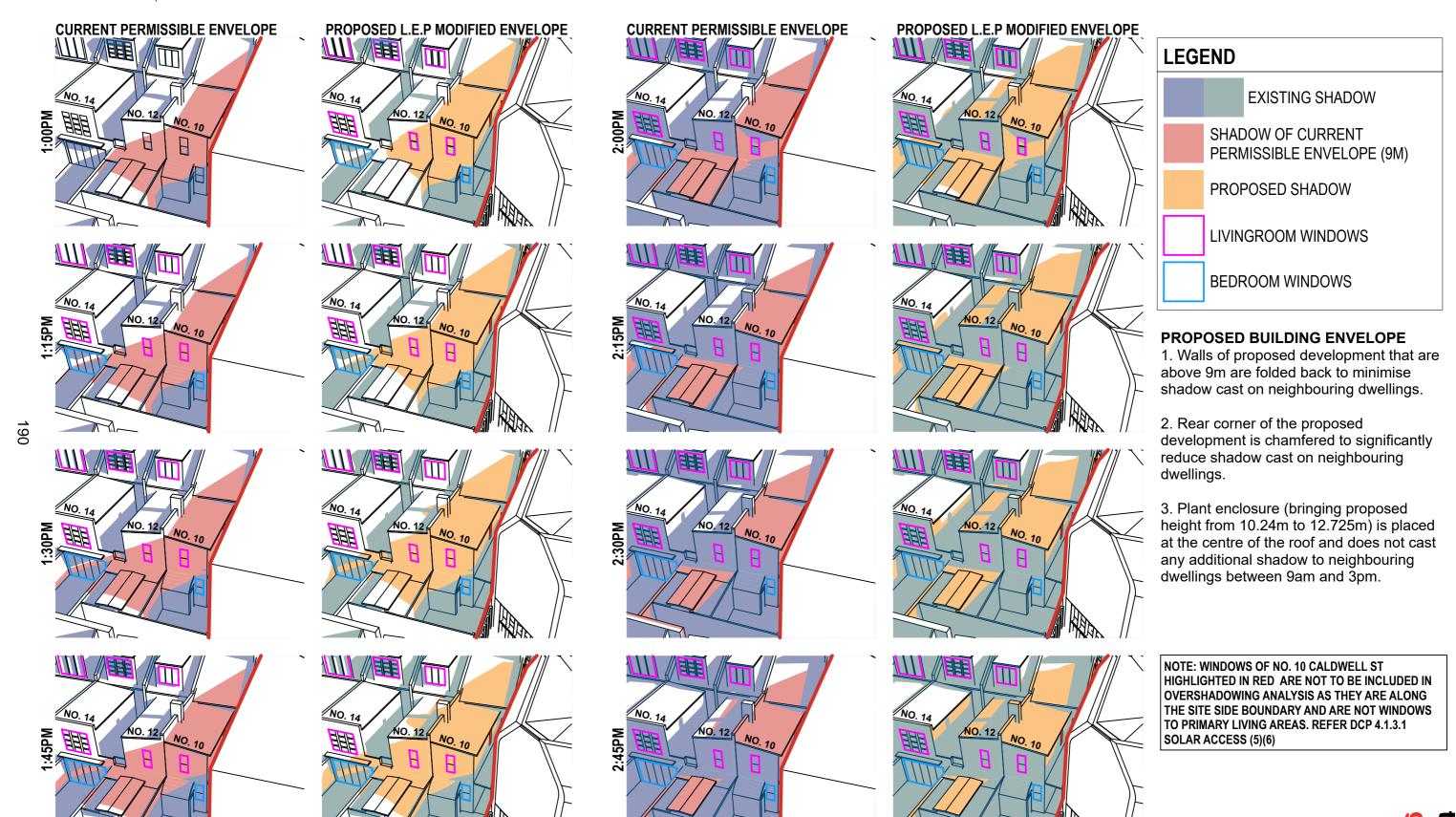
REAR OF NO. 10, 12 & 14 CALDWELL STREET



CHITECTS CHITECTS

### 3D SHADOW DIAGRAMS JUNE 21 1PM-2:45PM

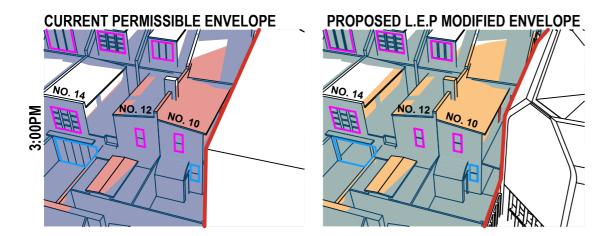
REAR OF NO. 10, 12 & 14 CALDWELL STREET

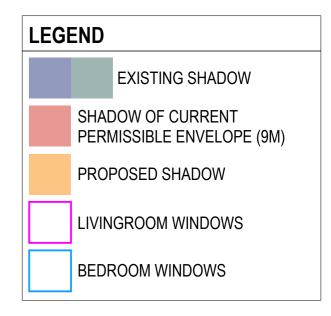


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### **3D SHADOW DIAGRAMS 21 JUNE 3PM**

REAR OF NO. 10, 12 & 14 CALDWELL STREET





#### PROPOSED BUILDING ENVELOPE

- 1. Walls of proposed development that are above 9m are folded back to minimise shadow cast on neighbouring dwellings.
- 2. Rear corner of the proposed development is chamfered to significantly reduce shadow cast on neighbouring dwellings.
- 3. Plant enclosure (bringing proposed height from 10.24m to 12.725m) is placed at the centre of the roof and does not cast any additional shadow to neighbouring dwellings between 9am and 3pm.

NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)





neighbouring dwellings. 2. Rear corner of the proposed development is chamfered to significantly reduce shadow cast on

1. Walls of proposed development that are above 9m are folded back to minimise shadow cast on

**BED ROOM WINDOW** 

LIVING ROOM WINDOW

PRIVATE OPEN SPACE

PROPOSED BUILDING ENVELOPE

neighbouring dwellings.

COMMUNAL OPEN SPACE

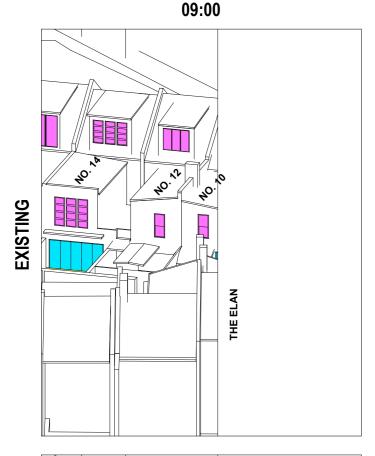
**LEGEND** 

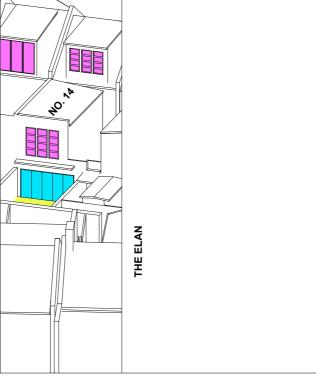
3. Plant enclosure (bringing proposed height from 10.24m to 12.725m) is placed at the centre of the roof and does not cast any additional shadow to

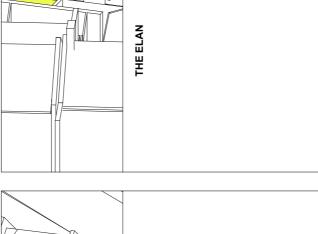
NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE **BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING** 

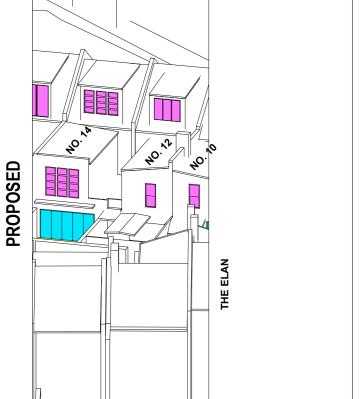
AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)

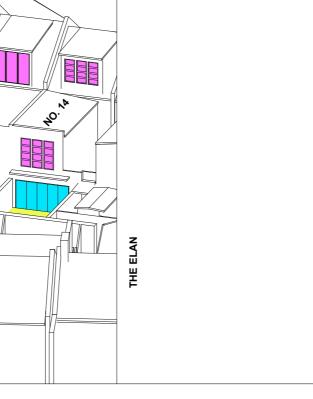
neighbouring dwellings between 9am and 3pm.

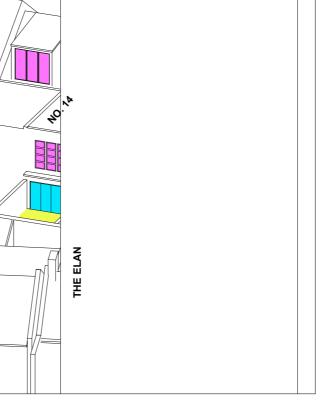


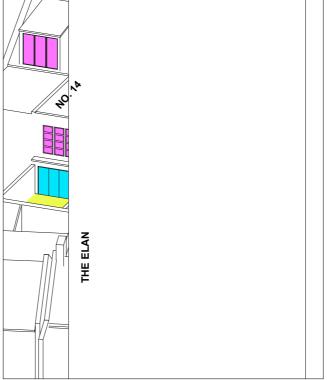






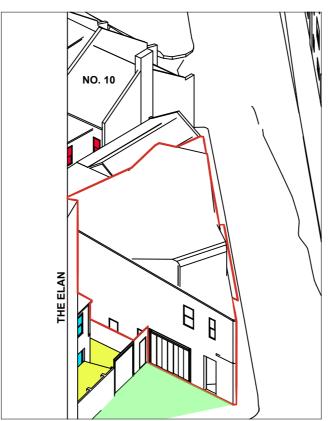


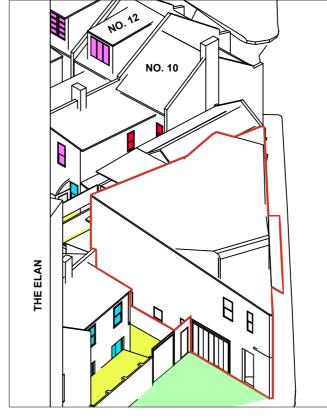




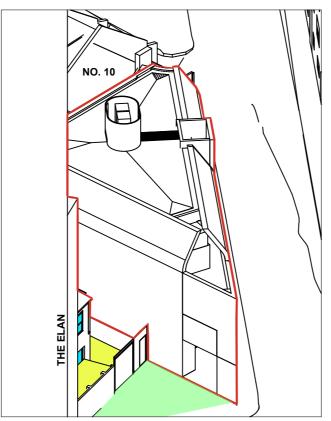
**EXISTING** 

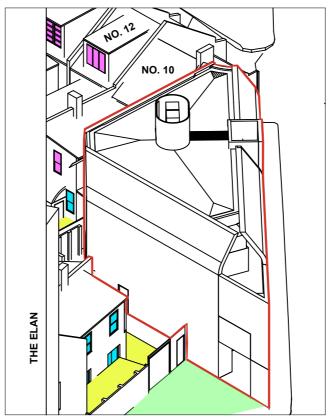
**PROPOSED** 





EYE OF THE SUN OBSCURED BY THE ELAN





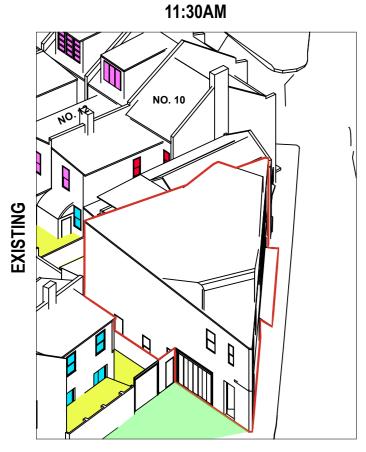
#### PROPOSED BUILDING ENVELOPE

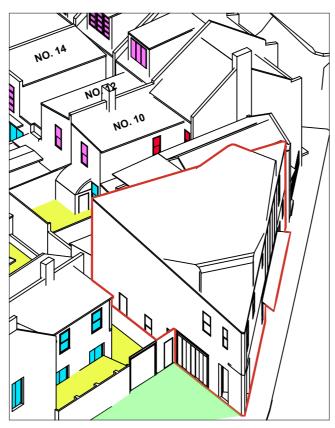
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NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE **BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING** AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)

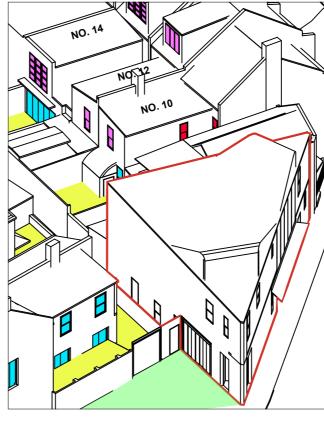
5/8/22

### **EYE OF THE SUN DIAGRAMS 21 JUNE 11:30AM-12:00PM**

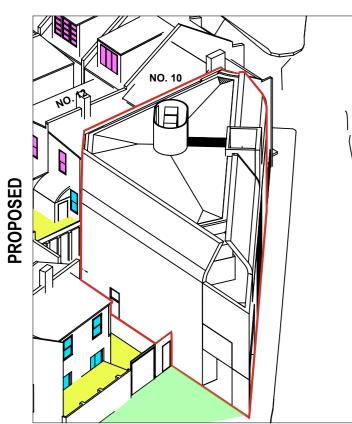


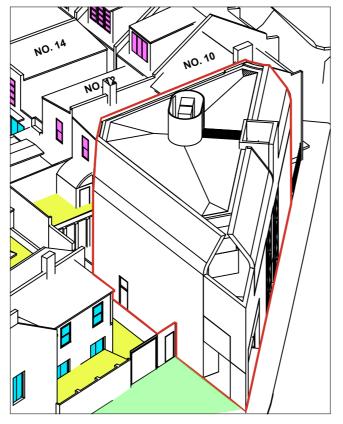


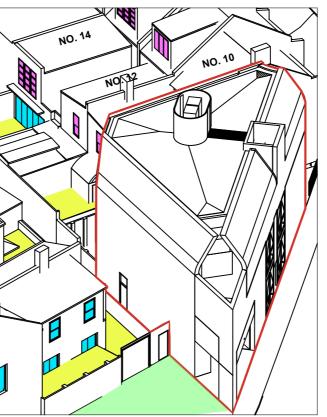
11:45AM



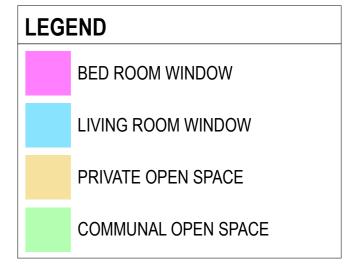
12:00PM







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#### PROPOSED BUILDING ENVELOPE

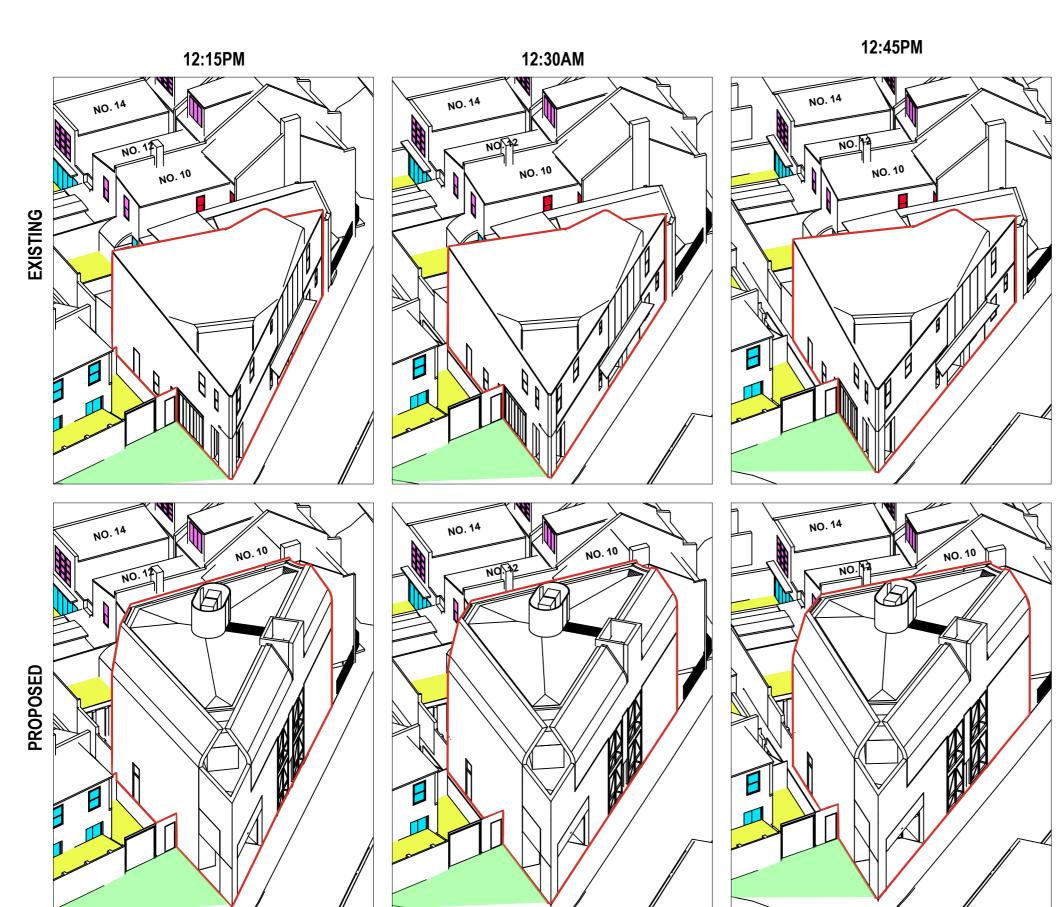
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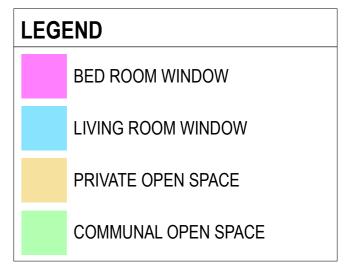
NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)





## **EYE OF THE SUN DIAGRAMS 21 JUNE 12:15AM-1:00PM**





#### PROPOSED BUILDING ENVELOPE

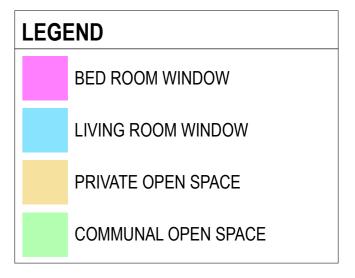
- 1. Walls of proposed development that are above 9m are folded back to minimise shadow cast on neighbouring dwellings.
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- 3. Plant enclosure (bringing proposed height from 10.24m to 12.725m) is placed at the centre of the roof and does not cast any additional shadow to neighbouring dwellings between 9am and 3pm.

NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)



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URBAN CONTEXT REPORT



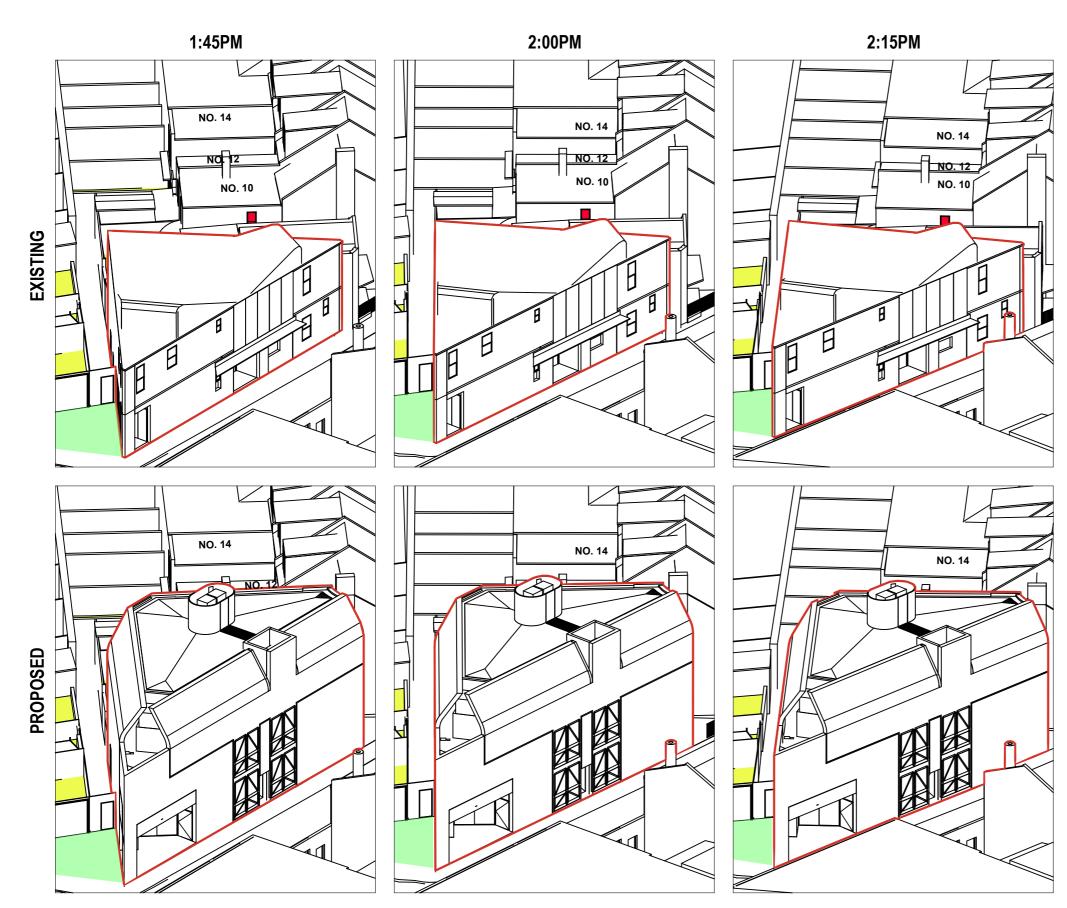
#### PROPOSED BUILDING ENVELOPE

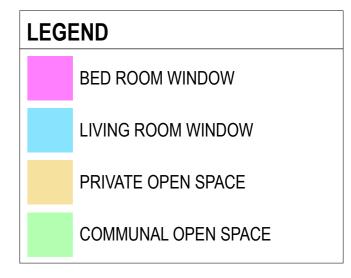
- 1. Walls of proposed development that are above 9m are folded back to minimise shadow cast on neighbouring dwellings.
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### **EYE OF THE SUN DIAGRAMS 21 JUNE 1:45PM-2:15PM**





#### PROPOSED BUILDING ENVELOPE

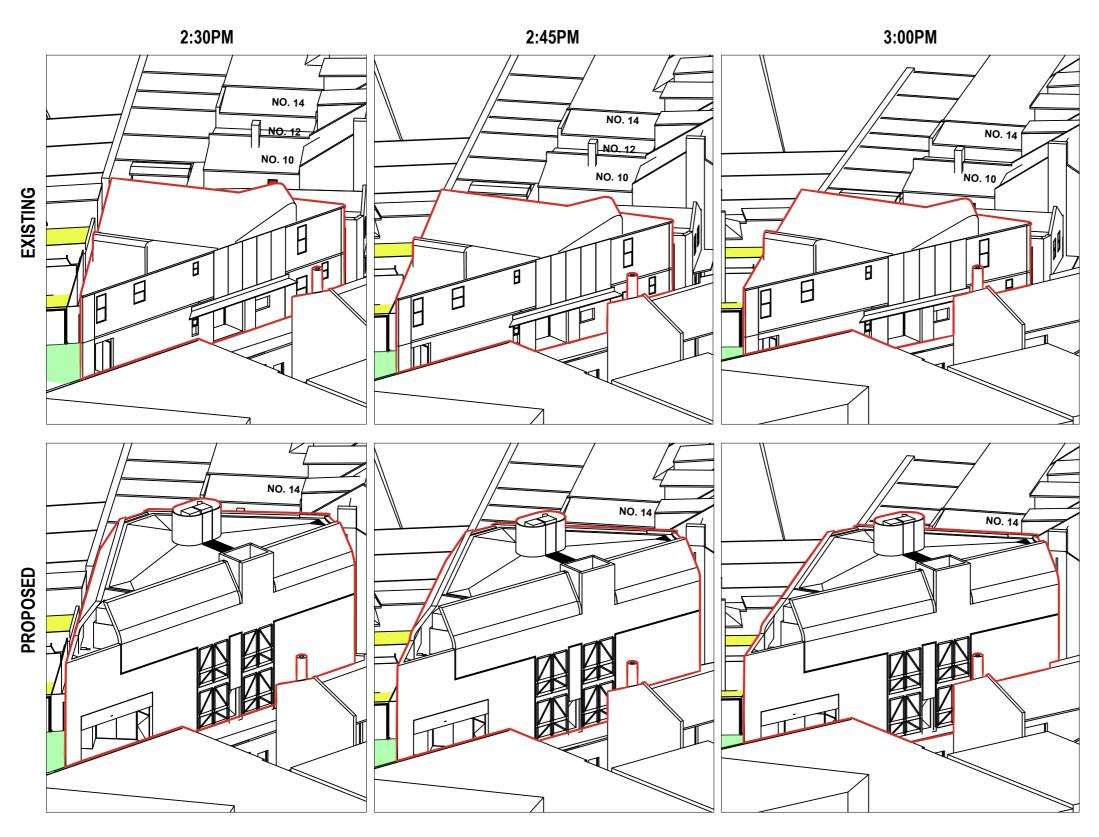
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- 3. Plant enclosure (bringing proposed height from 10.24m to 12.725m) is placed at the centre of the roof and does not cast any additional shadow to neighbouring dwellings between 9am and 3pm.

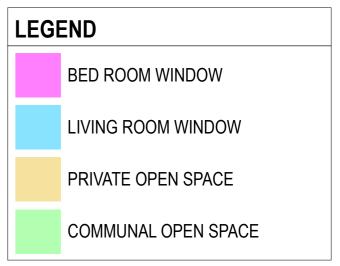
NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE **BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING** AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)



5/8/22

### **EYE OF THE SUN DIAGRAMS 21 JUNE 2:30PM-3:00PM**





#### PROPOSED BUILDING ENVELOPE

- 1. Walls of proposed development that are above 9m are folded back to minimise shadow cast on neighbouring dwellings.
- 2. Rear corner of the proposed development is chamfered to significantly reduce shadow cast on neighbouring dwellings.
- 3. Plant enclosure (bringing proposed height from 10.24m to 12.725m) is placed at the centre of the roof and does not cast any additional shadow to neighbouring dwellings between 9am and 3pm.

NOTE: WINDOWS OF NO. 10 CALDWELL ST HIGHLIGHTED IN RED ARE NOT TO BE INCLUDED IN OVERSHADOWING ANALYSIS AS THEY ARE ALONG THE SITE SIDE BOUNDARY AND ARE NOT WINDOWS TO PRIMARY LIVING AREAS. REFER DCP 4.1.3.1 SOLAR ACCESS (5)(6)

