

CPP Project 7093

25 January 2016

Urbanest Pty Ltd  
Suite 102, Level 1  
Australia Square, Plaza Building  
95 Pitt Street  
Sydney  
NSW 2000

Attn: Mr. Andy Stubbs

Subject: Wind Engineering – Central Courtyard W1 Darling Drive Student Accommodation North (SSDA12)

Ref: (1) CPP Report '7093 SICEEP W2 Student Accommodation Wind Report\_Final - rev3', dated 5 June 2013.  
(2) ASPECT Studios Drawings "State Significant Development Application (SSDA12) W1 – Darling Drive Student Accommodation North' dated January 2016.

Dear Mr. Stubbs,

Cermak Peterka Petersen Pty. Ltd. (CPP) was previously engaged to assess the proposed Sydney International Convention Centre, Exhibition and Entertainment Precinct (SICEEP), West Plot of Darling Square in terms of Wind Engineering.

This letter supports an application made under Section 96 of the Environmental Planning and Assessment Act 1979 (EP&A Act) seeking approval in relation to the use of the Central Courtyard. Comments received from the Department of Planning in relation to the Building W1 (Urbanest DS2) DA Submission:

*Further information & justification is required for the proposed use of the central courtyard:*

- Provide confirmation of mitigation measures to address the likely wind impacts on the central courtyard (currently noted as comfortable for 'walking').

CPP recently re-tested the same model of the Central Courtyard (1) with a link bridge included. Wind speeds just to the east of the bridge were at the Lawson Pedestrian Standing criteria. Winds just to the west of the bridge were at Lawson 'Walking' and passed the Lawson distress rating for public safety.

Hence the area will be generally suitable for pedestrian thoroughfare, but too frequently windy for longer term stationary activities such as outdoor dining or cinema viewing.

CPP provided advice to Aspect Studios as to likely comfort levels to the tiered seating and principles that could be employed to ameliorate potential wind impacts to this area. This has been implemented by modifying the design to incorporate a 1.8 m high solid timber balustrade to upper levels and sides of the amphitheatre (>1 m high) in order to provide some local wind protection to patrons using the amphitheatre. The top 600mm will include 25% porosity to assist disperse stronger flows and provide amelioration. Within the amphitheatre wind conditions will likely be in the range of Pedestrian Standing and Pedestrian Sitting under

Lawson and could be quantified through further numerical simulation or wind tunnel testing. This local wind protection is unlikely to extend far beyond the amphitheatre space enclosed by the screening.

I hope this is of assistance, please do not hesitate to contact me on 9551 2000 if you would like to discuss any aspect of this report.

Yours sincerely,



Matt Glanville  
Director

cc G. S. Wood

Drawings:

*ASPECT Studios Drawings "State Significant Development Application (SSDA12) W1 – Darling Drive Student Accommodation North" dated January 2016.*

**DRAWING LIST**

Number	Title	Scale @ A1	Issue
15076-LA-SSDA12-01	Context Plan	1:5000	B
15076-LA-SSDA12-02	Site Plan	1:250	B
15076-LA-SSDA12-02	Courtyard Landscape Plan	1:50	B
15076-LA-SSDA12-04	Courtyard Section 01	1:50	B
15076-LA-SSDA12-05	Courtyard Section 02	1:50	B
15076-LA-SSDA12-06	Courtyard Section 03 Detail of fence	1:20	B
15076-LA-SSDA12-07	Courtyard Perspective 01	NTS	B
15076-LA-SSDA12-08	Courtyard Perspective 02	NTS	B
15076-LA-SSDA12-09	Northern park Landscape Plan	1:50	B
15076-LA-SSDA12-10	Northern park Section 03	1:50	B
15076-LA-SSDA12-11	Northern park Section 04	1:50	B
15076-LA-SSDA12-12	Northern park Perspective 03	NTS	B
15076-LA-SSDA12-13	Site wide planting plan	1:250	B