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Children's Hospital Westmead, Paediatric Services Building, Design Changes

Dear Ky,

Further to recent correspondence, please find herein a brief letter detailing the expected impact of the minor geometric change on the local wind conditions in and around the site, and on the balcony compared with those modelled in our Environmental Wind Assessment report dated 17 June 2021.

The architectural drawings of the current scheme were compared with the reference scheme and the relevant changes to wind conditions. The change has been reviewed from a pedestrian-level environmental wind perspective. The overall massing of the model has not been changed significantly from a wind perspective and hence the expected wind conditions around the site on the pedestrian level would be similar to the previous CFD assessment report.

The comparison is also made in relation to balconies. It is understood that the accessible terraces are annotated in the drawings. There are two new accessible terraces on Level 6 shown in Figure 1. The triangular notch created in the revised design would improve wind conditions in the terraces. In the previous design, L6 and L7 terraces were assessed, Figure 2. These wind conditions shown in Figure 2 would be similar or improved for the current design and therefore suitable for standing type activities.

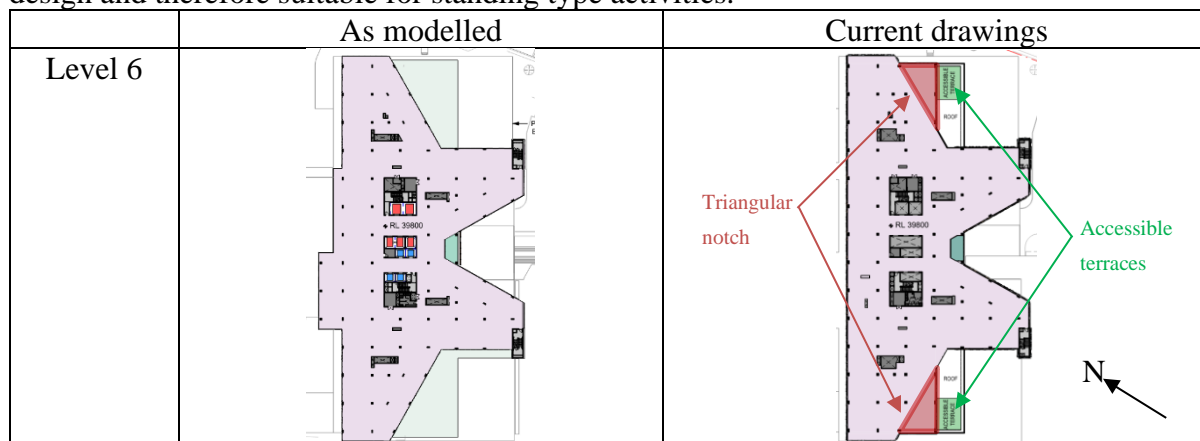


Figure 1: Plan comparison between modelled and current designs

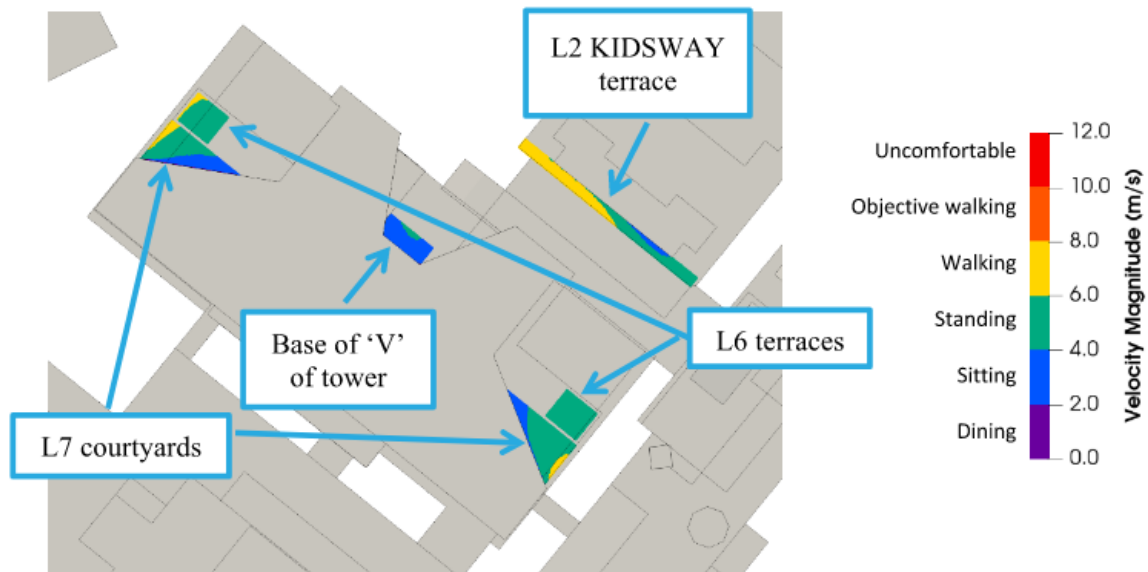


Figure 2. Classification of wind comfort on terraces based on the previous CFD assessment.

I hope this is of assistance, please do not hesitate to contact me on (02) 9320 9559, if you have any questions regarding any aspect of this report.

Yours sincerely,

Sina Hassanli
Senior Wind and CFD engineer