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MEMORANDUM

DATE:	2020-09-21	RWDI REFERENCE #: 2003956
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FROM:	Andrew Proud Aimee Crook	EMAIL: Andrew.Proud@rwdi.com Aimee.Crook@rwdi.com
RE:	Wind Microclimate Statement on Conformity Pope's Road London, UK	

Introduction

During 2019 and 2020, RWDI undertook a series of wind tunnel tests to assess the wind microclimate at the proposed Pope's Road development (the 'Proposed Development') in Brixton, London and determine the suitability of the wind environment for the intended pedestrian uses. Initial wind tunnel testing identified the requirement for wind mitigation measures, which have been developed through additional testing. With these measures in place, wind conditions at the Proposed Development would be suitable for the intended pedestrian uses.

This statement sets out to provide a qualitative assessment of design amendments that have been proposed following wind tunnel testing with regard to any potential effect on the wind microclimate.

Proposed Amendments

Subsequent to the wind tunnel testing, the following amendments to the design as tested have been proposed:

- Introduction of horizontal trays on the terraces of the western and eastern façade of the west block;
- Reduction in the size of the building crowns (visible on east-west, north-south facades of both west and east block); and
- Introduction of a circular column with integrated seating at ground floor which the west façade structural bracing meets the top of.

These amendments are presented in Figure 1 and Figure 2 alongside the development as tested.



Figure 1: Proposed amendments to terrace levels and crown (left - as tested, right - proposed amendments)



Figure 2: Proposed amendments to ground level (left - as tested, right - proposed amendments)

Amendments to the crown (Figure 1) are located distant from pedestrian areas and are small in scale relative to the overall mass of the Proposed Development. Likewise, the introduction of horizontal trays to terrace levels would be relatively small in scale compared to the surrounding massing and would allow wind to flow around them. As



such neither of these amendments would be expected to significantly change wind conditions from those reported at ground or terrace levels.

The introduction of a circular column at ground level and uplift of the structural columns would not substantially change the massing of the Proposed Development at ground level relative to that as tested. As such, wind conditions would be expected to remain similar to those as tested, where conditions would be suitable for sitting use during the summer season (when amenity space is expected to be most frequently used). These sitting use conditions would be appropriate for the proposed introduction of seating provision.

Conclusions

During 2019 and 2020, an assessment of the wind microclimate at the Proposed Development was undertaken by RWDI using wind tunnel testing methods. Further to this testing, amendments have been proposed that would introduce minor alterations to the detail of the Proposed Development and introduce seating provision at ground floor level. The proposed amendments would not substantially alter the building massing or form and as such, wind conditions would be expected to be similar to those as tested and the results of the July 2020 assessment would remain valid.

A handwritten signature in black ink that reads 'AProud'.

Andrew Proud
Project Engineer

A handwritten signature in black ink that reads 'A Crook'.

Aimee Crook
Project Manager