19 May 2015 111216 X

TTW

TaylorThomsonWhitting

GL Investment Co Pty Ltd Suite 1501, Level 15 14 Martin Place Sydney NSW 2000

Attention: Jenny Watt

161 SUSSEX STREET REDEVELOPMENT ADDITIONAL LEVELS TO EXISTING NORTHERN HOTEL TOWER STRUCTURAL ENGINEERING STATEMENT

The 161 Sussex Street redevelopment consists of the new Convention Centre and new Tower south of the existing hotel. Two additional levels plus roof are proposed to be added to the roof of the existing northern hotel tower for an executive bar and lounge. This Statement describes the proposed structure of the new levels and roof extension as shown on the amended DA drawings prepared by Cox Richardson (Drawing no. A-DA2-0101 to A-DA2-0603).

The site is currently occupied by the existing Four Points hotel. This consists of an 11 storey north wing and 15 storey south wing constructed by Civil & Civic in about 1988.

The two new additional floor levels will be constructed from reinforced concrete on the existing concrete roof, the new roof will be constructed from steelwork, and all will be tied back to the existing structure. The existing structure has been checked and has sufficient capacity to support the extra loads from the proposed structure.

In the original DA the following reports relevant to structure were submitted:

Appendix H – Rail Corridor Impact Assessment

Appendix N - CBD Rail Link Diagram

Appendix Q - Engineering Services Report

In regards to rail (Appendix H & Appendix N) the structure for the additional hotel lift will be outside the zone of influence of the Railcorp proposed alignment. There is no change to the principles described in the Rail Corridor Impact Assessment report resulting from the additional levels.

In regards to existing in-ground services (Appendix Q), additional loads on existing footings for the approved structure will not impose new surcharge loads. There is no change to the principles described in the Engineering Services Report resulting from the additional levels.

Structural

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Traffic

Facade

Engineers

TTW Group

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G Petschack JP

Manager Facade

N McClelland BSc BE Hons MBA MIEAust

All structural framing and structural components will be designed and documented to comply with the provisions and applicable Australian Standards from Section B, Part B1 of the Building Code of Australia 2013. The applicable Australian Standards are listed below:

AS 1170.0 - 2002	Structural design actions – General principles
AS 1170.1-2002	Structural design actions – Permanent, imposed and other
	actions
AS 1170.2 - 2011	Structural design actions – Wind actions
AS 1170.4 - 2007	Structural design actions – Earthquake actions in Australia
AS 3600 - 2009	Concrete Structures
AS 3700 - 2011	Masonry Structures
AS 4100 -1998	Steel Structures

Yours faithfully,

TAYLOR THOMSON WHITTING (NSW) PTY LTD

DAVID CAROLAN

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Director

P:\2011\1112\11112\11112\150519 Additional Bar and Lounge_description of structure.docx