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Capital Corporation
Suite 705, 12 Century Circuit
BAULKHAM HILLS NSW 2153

AXIS DEVELOPMENT – STAGE 1A 6 AUSTRALIA AVE & STAGE 2 – 2 HERB ELLIOT AVE, SYDNEY OLYMPIC PARK – PROJECT REPORT

Structural Engineering

The proposed development consists of two commercial buildings within the site allotment, and are separated by Road 16. The development will be constructed in three stages. Stage 1 will consist of the basements and podium level for stages 1 and 1A being bounded by Road 16, Australia Ave, Road 10 and Herb Elliot Ave. The largest of the two buildings will be built in two stages.

The proposed commercial buildings will be a framed multi-level building, consisting of post-tensioned floor slabs and beams. The floor slabs will be laterally braced by a combination of lift and stair shafts and frame action between concrete columns and floor slab beams.

A post-tensioned podium slab constructed over the basement carpark will support a variety of uses. Retail floor space and ancillary services will be located under the footprint of the buildings. The podium slab will also incorporate deep soil planters, a new Road 10 and Road 16 and large open areas for pedestrian and social gatherings.

The basement car park will be surrounded by a permanent perimeter shoring/retaining wall. A temporary earth batter will occur at the demarcation between Stages 1 and 2.

The lowest basement car park level floor slabs will be poured directly onto the ground.

The concrete columns and lift/stair shafts will be supported on bored piers and/or concrete pad footings founded on a rock.

The existing adjoining building is proposed to be demolished during Stage 1.

The majority of the façades to the building will be lightweight framing, relying on the concrete floor slabs for support. Additional secondary structural steel framing will be introduced for any sun-shading and access for window cleaning.

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.



The relevant design codes used were documented on our structural drawings listed below.

AS 1170.0 – 2002	SAA Loading Code Part 0 General Principles
AS 1170.1 – 2002	SAA Loading Code Part 1 Dead and Live Loads
AS 1170.2 – 2002	SAA Loading Code Part 2 Wind Loads
AS 1170.4 – 2002	SAA Loading Code Part 4 Earthquake Loads
AS 4100 – 1998	Steel Structures
AS 3600 – 2009	Concrete Structures
AS 3700 – 2001	Masonry Structures

Yours faithfully
SCP CONSULTING PTY LTD

A handwritten signature in black ink, appearing to read 'Peter Trickett', with a stylized flourish at the end.

Peter Trickett
Director