November 3, 2011

WB105-01F03(rev3)- Shadow Diagrams

Mirvac Projects Pty Ltd
Level 26, 60 Margaret Street,
Sydney, NSW 2000

Attn: Ms Emma Ellis

RE: 71-79 Macquarie Street, Sydney

Dear Ms Emma Ellis,

This letter is in relation to the shadow diagrams for the proposed development located at 71-79 Macquarie Street, Sydney. Windtech Consultants have prepared and undertaken a detailed model of the existing building and proposed development at 71-79 Macquarie Street, Sydney to determine the effects of the proposed development on the shadows cast on the surrounding areas of the subject site.

Shadow diagrams for the subject site and adjacent areas have been prepared for 9am, 12pm and 3pm for the summer solstice (December 21), winter solstice (June 21) and the equinox (March 21 and September 21) as detailed in the Director General Requirements for the development dated March 4, 2011. These shadow diagrams have been present in Figures 1 to 12 for the existing building and Figure 13 to 24 for the proposed development.

An analysis of the shadow diagrams for the effects of the proposed development on the existing conditions, indicated that the resulting shadows cast on the surrounding areas will be similar to the existing conditions. In particular, no additional overshadowing to the adjoining parkland. This is due to the profile of the building as seen by the sun to generate shadows on the surrounding areas, including the adjoining parkland, being similar to the existing building.

Yours sincerely,

WINDTECH Consultants Pty Ltd

Kevin Peddie

Supervising Engineer

Existing Building

Figure 1: Existing Building –March 21 (0900hrs)

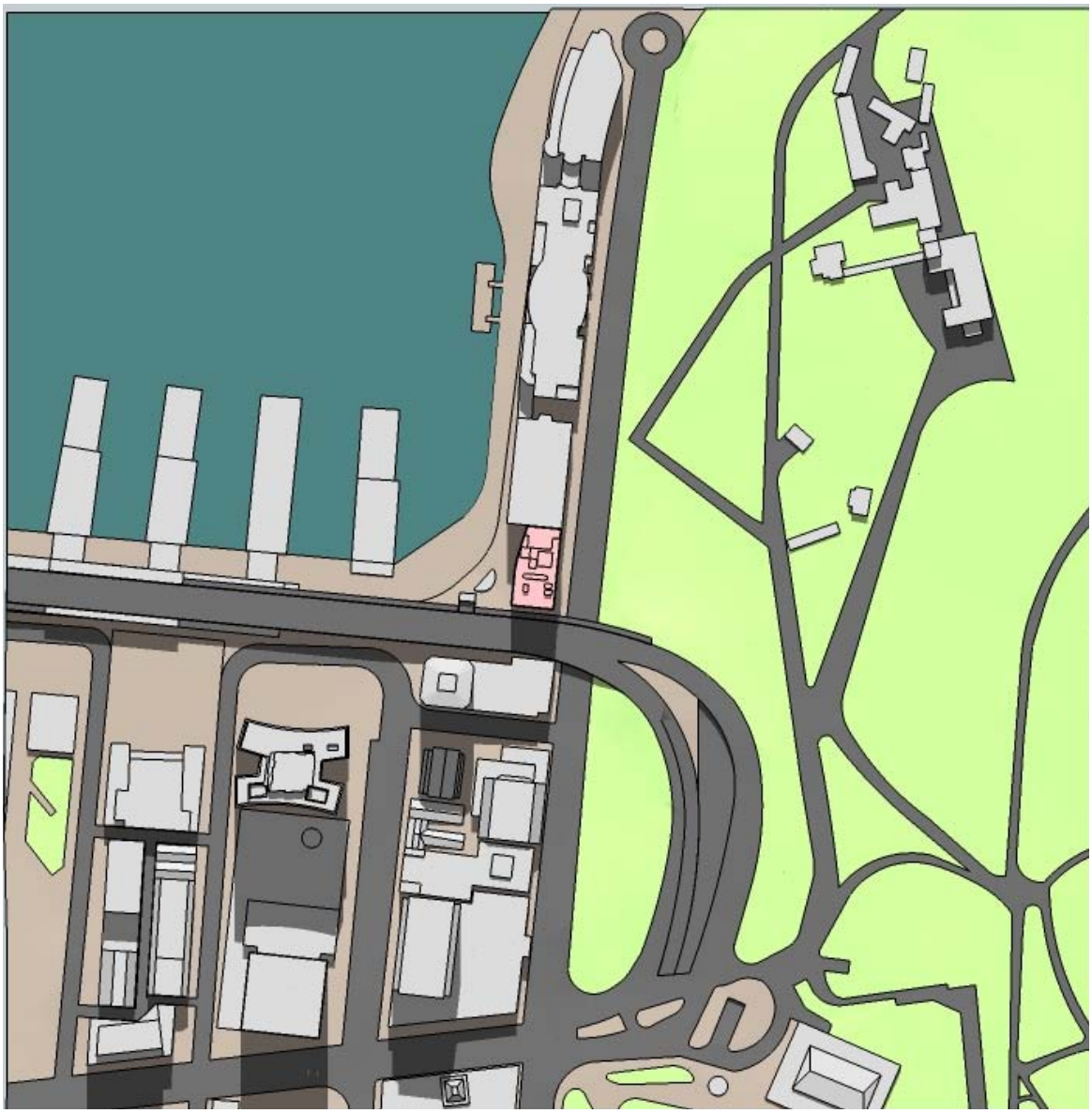

Figure 2: Existing Building – March 21 (1200hrs)

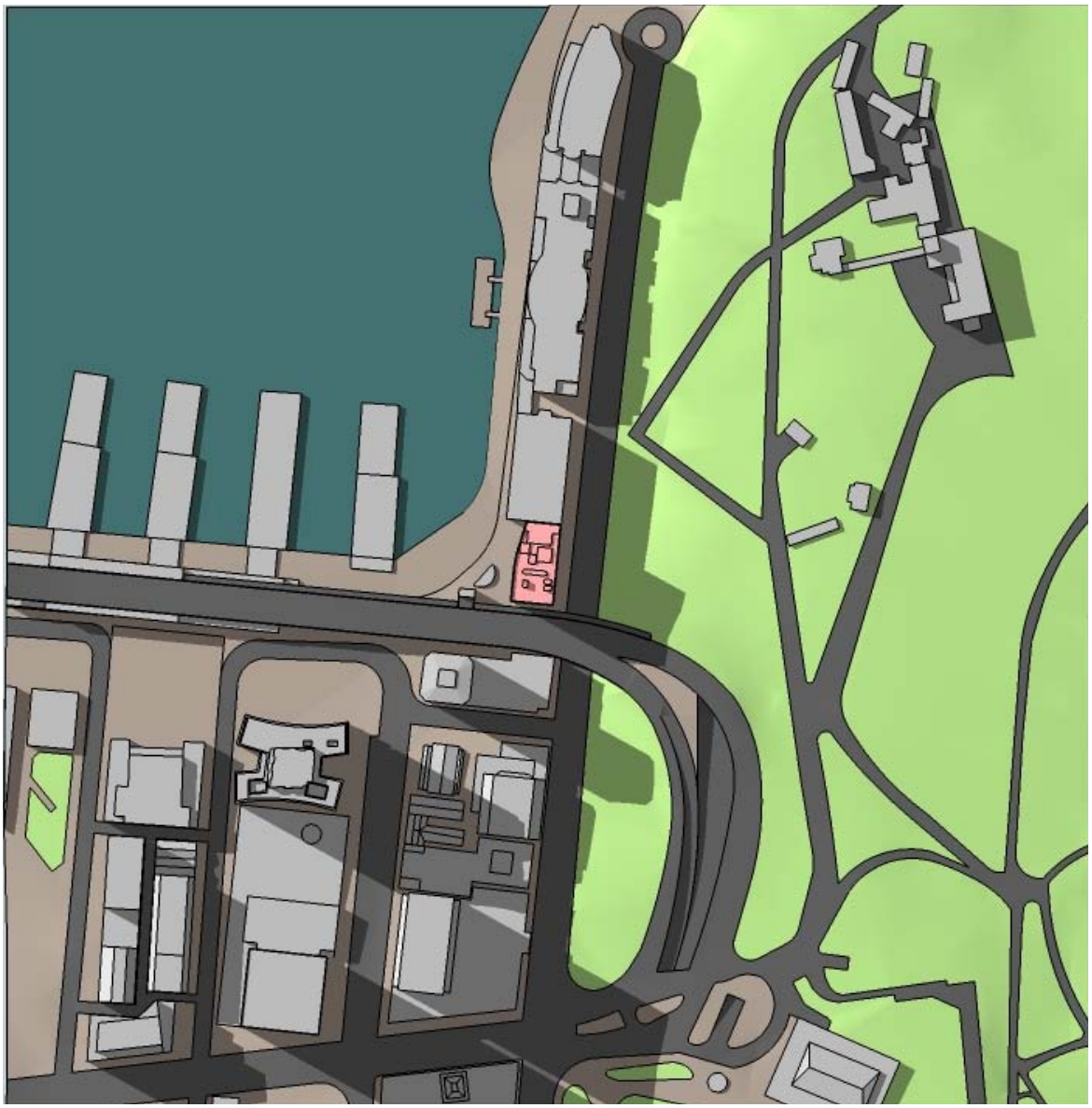

Figure 3: Existing Building – March 21 (1500hrs)

Figure 4: Existing Building – June 21 (0900hrs)

Figure 5: Existing Building – June 21 (1200hrs)

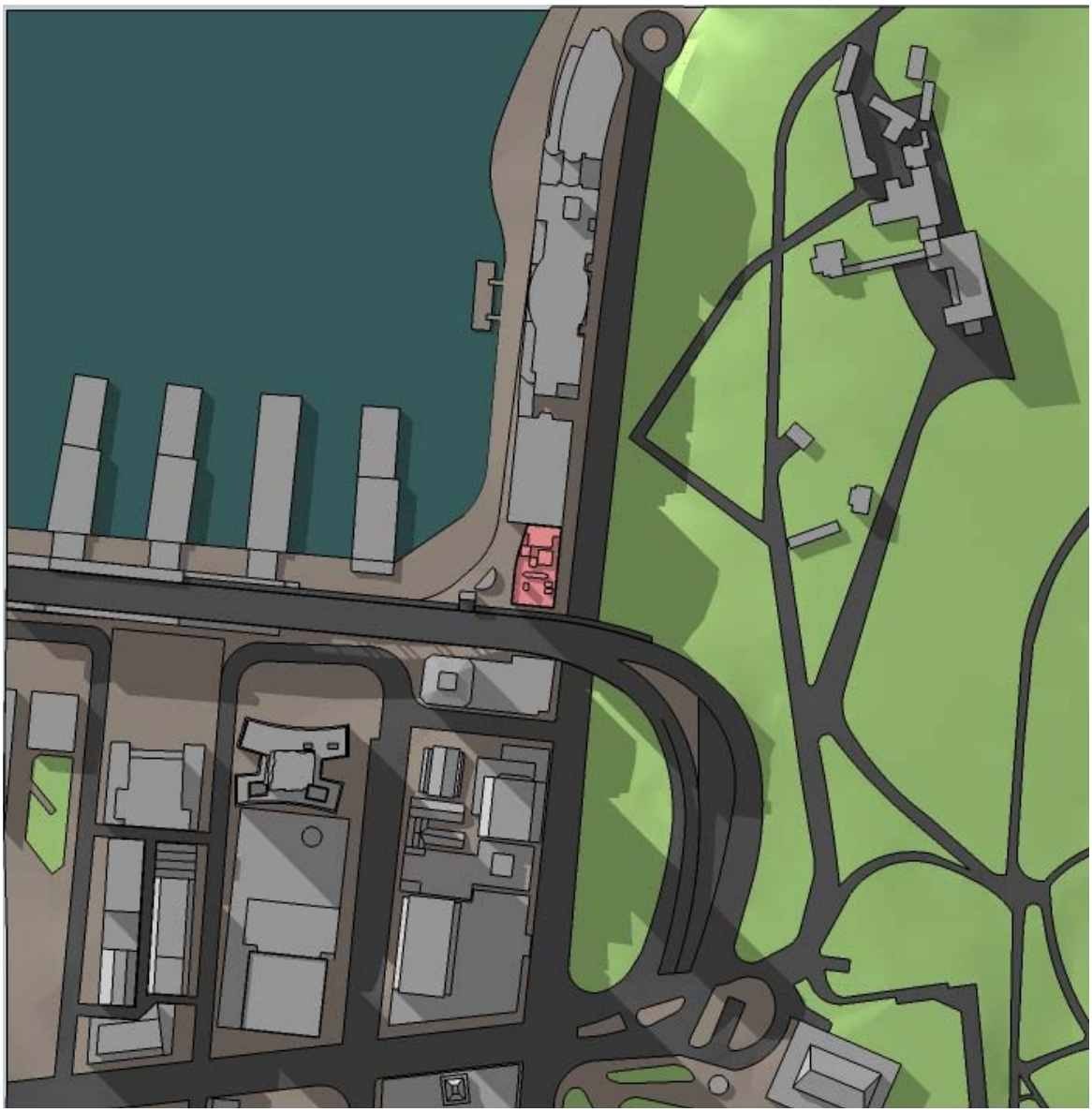

Figure 6: Existing Building – June 21 (1500hrs)

Figure 7: Existing Building –September 21 (0900hrs)

Figure 8: Existing Building – September 21 (1200hrs)

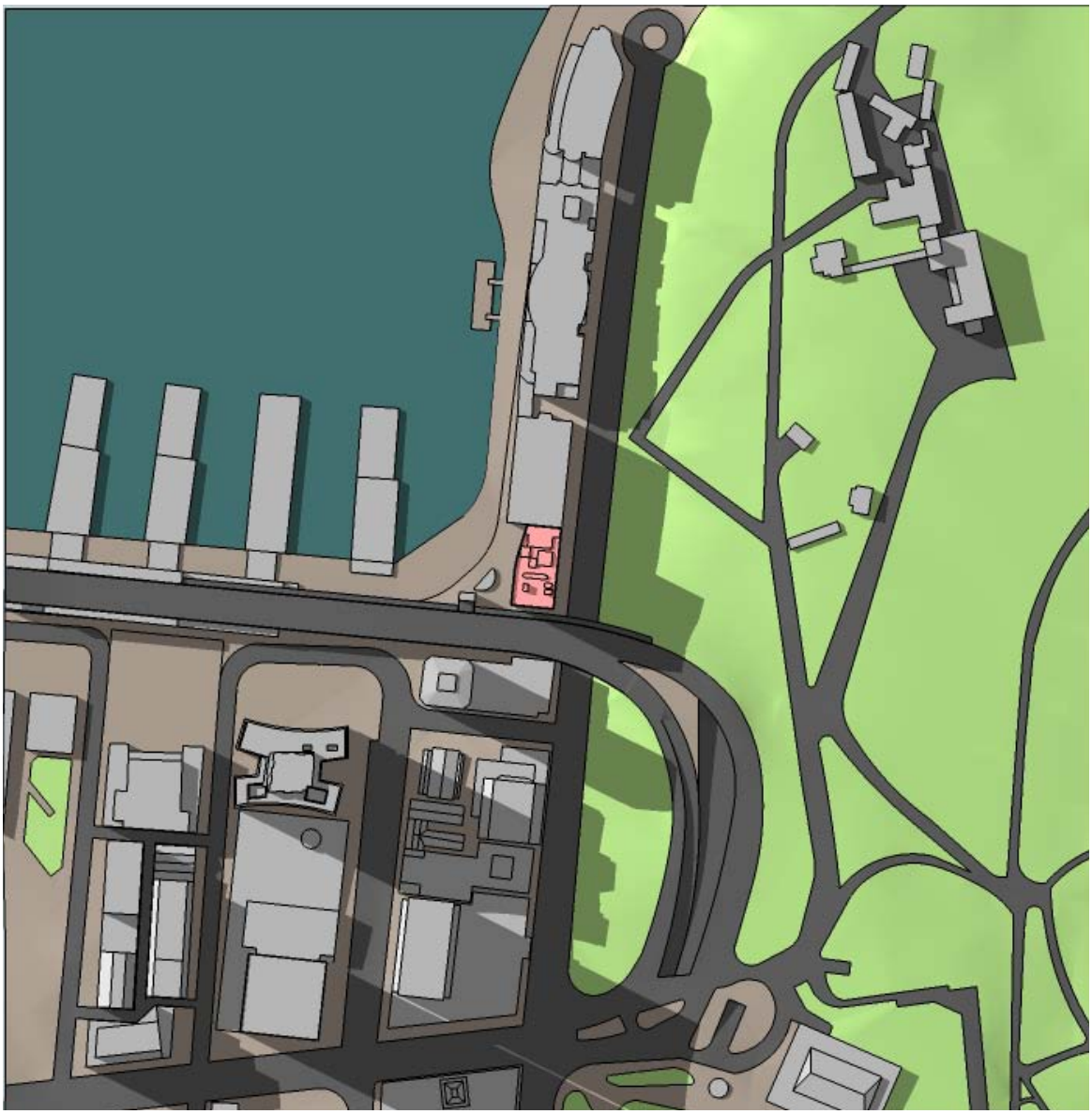

Figure 9: Existing Building – September 21 (1500hrs)

Figure 10: Existing Building – December 21 (0900hrs)

Figure 11: Existing Building – December 21 (1200hrs)

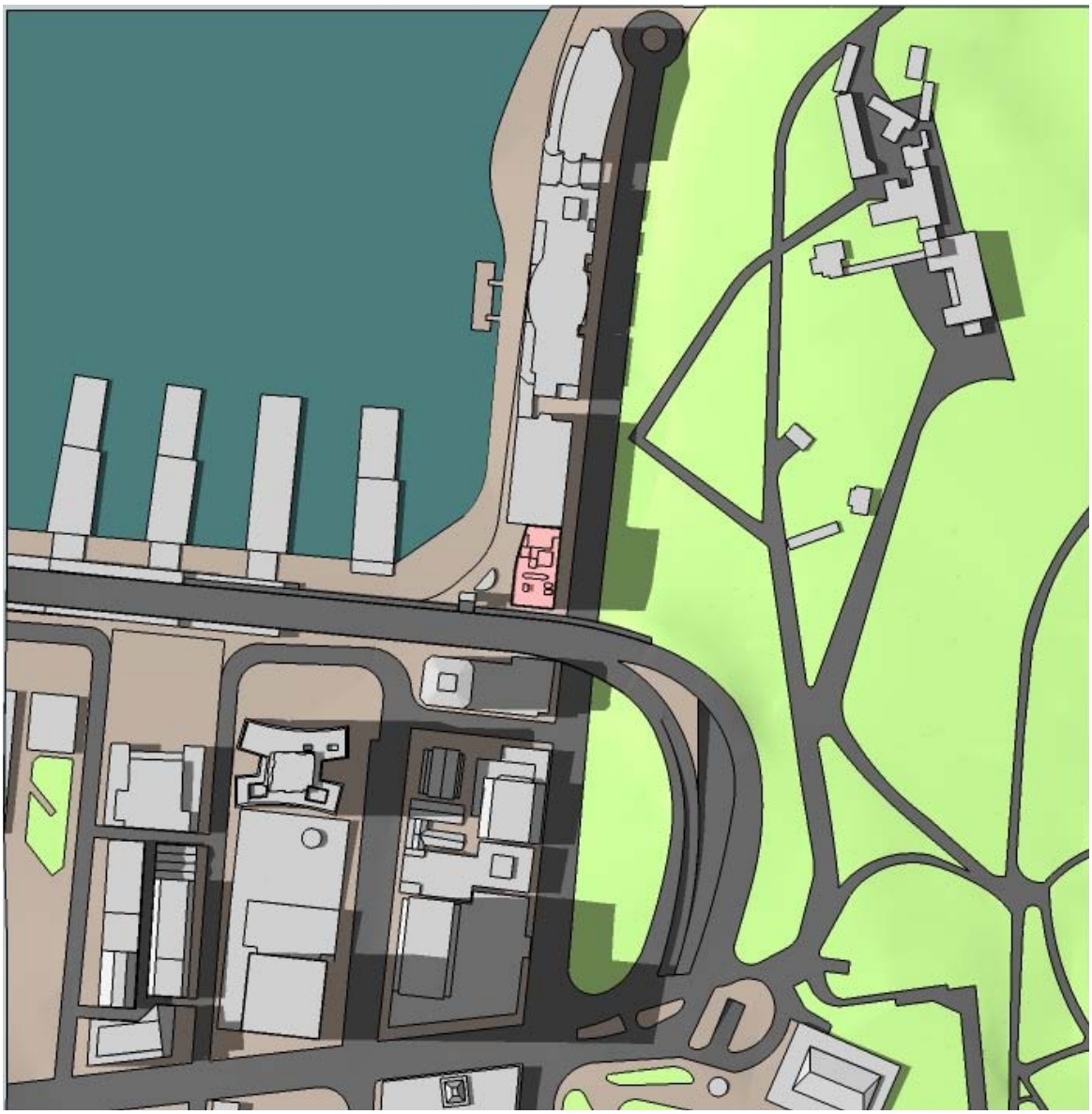

Figure 12: Existing Building – December 21 (1500hrs)

Proposed Development

Figure 13: Proposed Building –March 21 (0900hrs)

Figure 14: Proposed Building – March 21 (1200hrs)

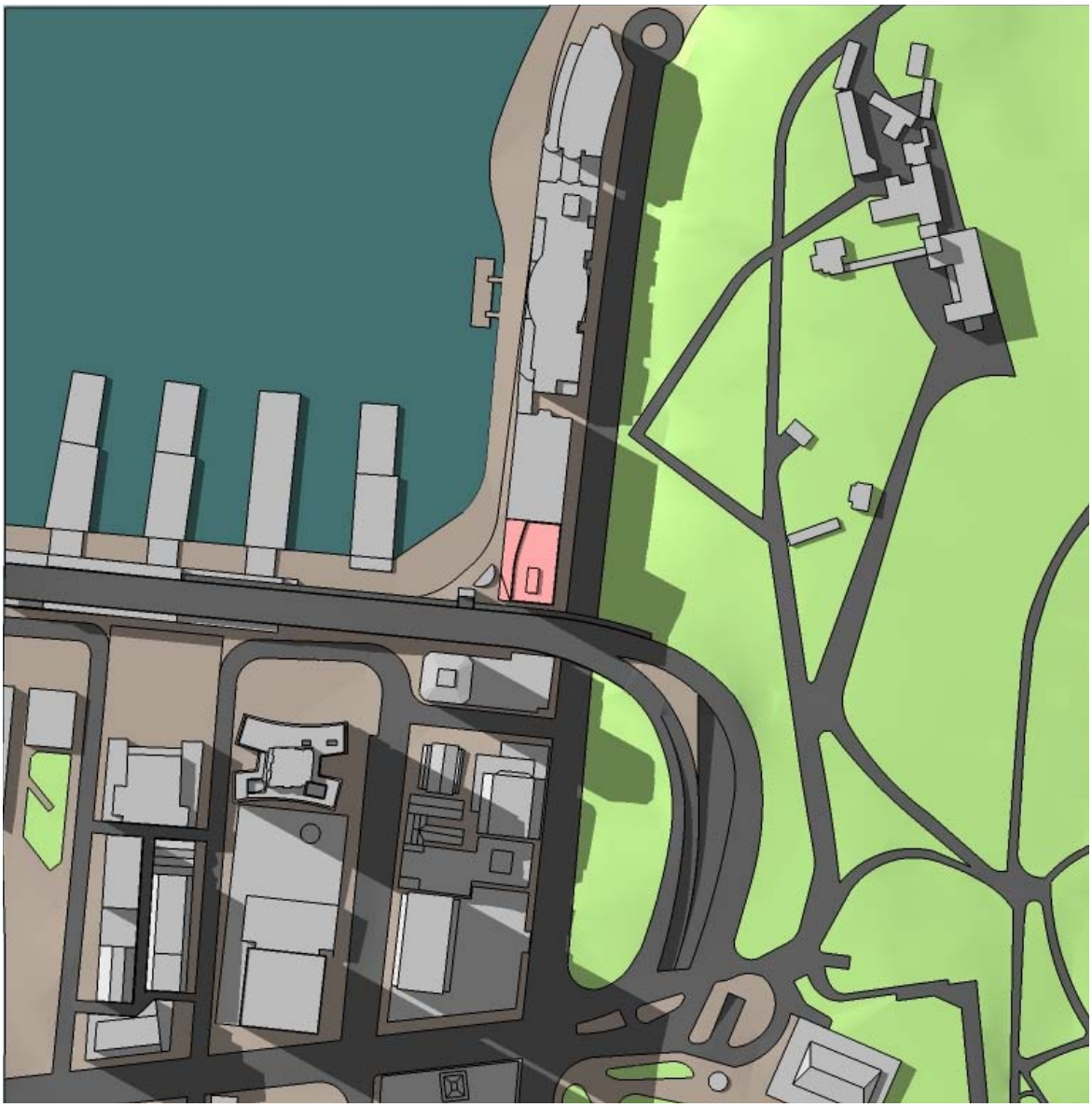

Figure 15: Proposed Building – March 21 (1500hrs)

Figure 16: Proposed Building – June 21 (0900hrs)

Figure 17: Proposed Building – June 21 (1200hrs)

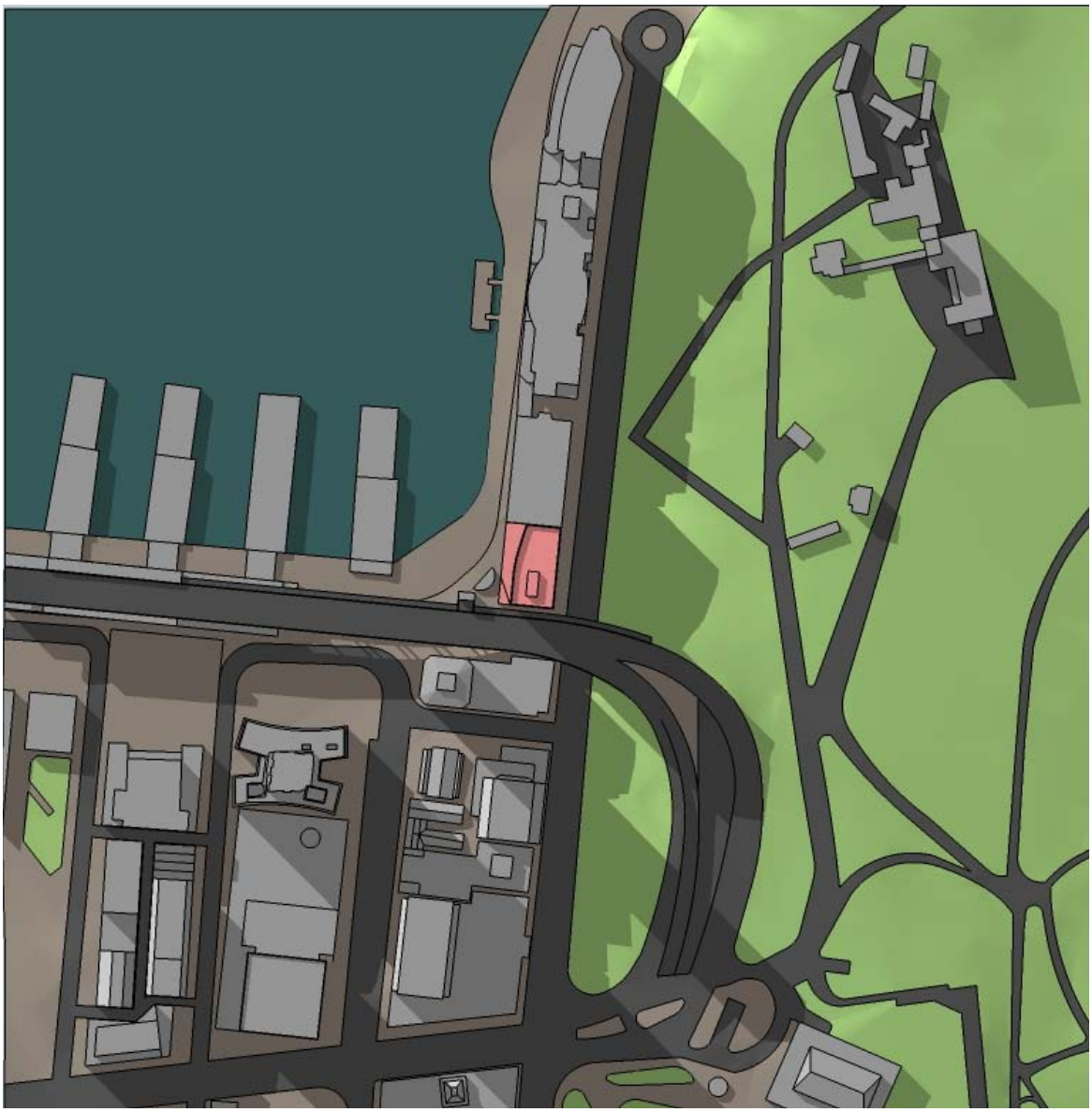

Figure 18: Proposed Building – June 21 (1500hrs)

Figure 19: Proposed Building – September 21 (0900hrs)

Figure 20: Proposed Building – September 21 (1200hrs)

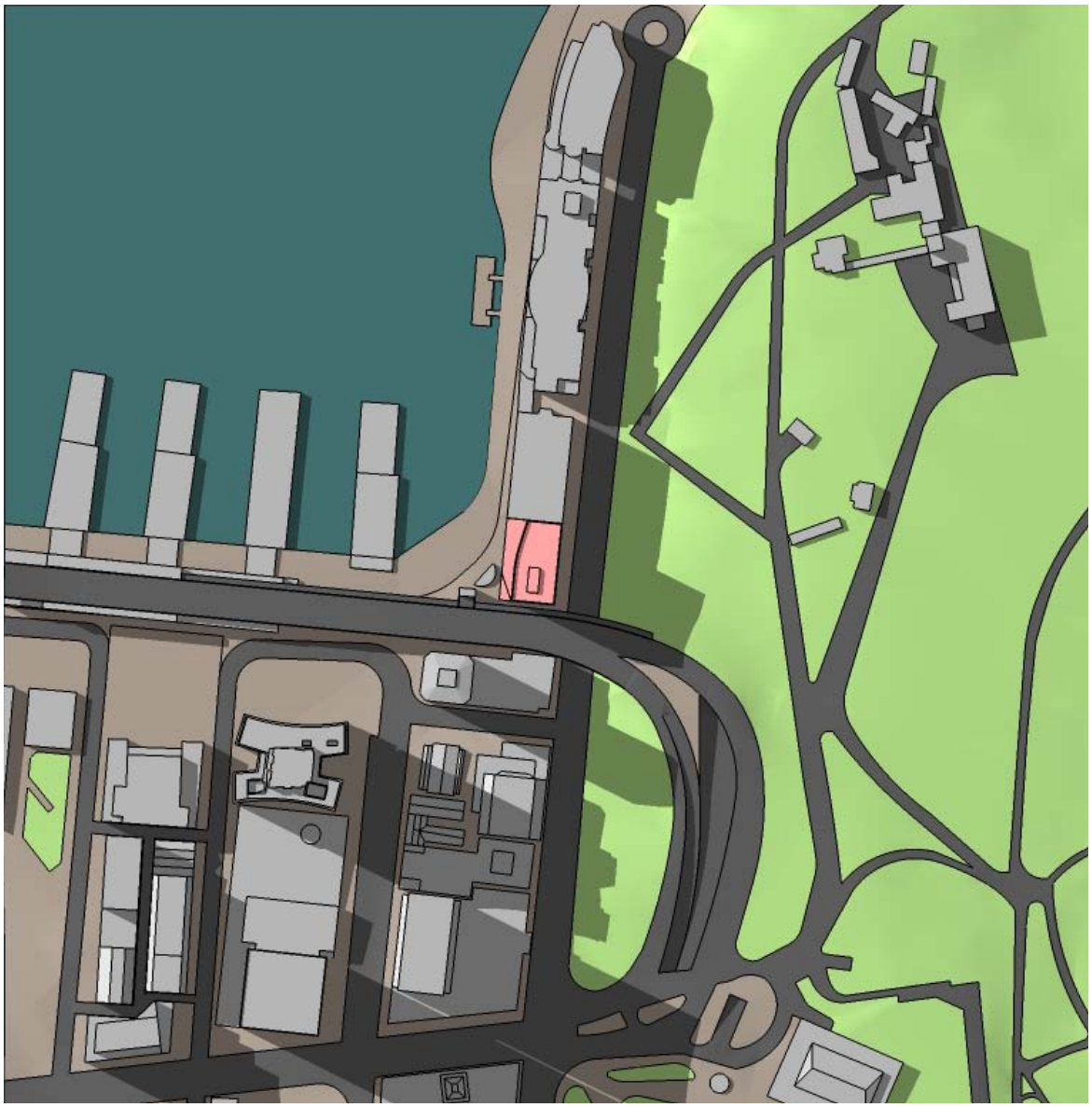

Figure 21: Proposed Building – September 21 (1500hrs)

Figure 22: Proposed Building – December 21 (0900hrs)

Figure 23: Proposed Building – December 21 (1200hrs)

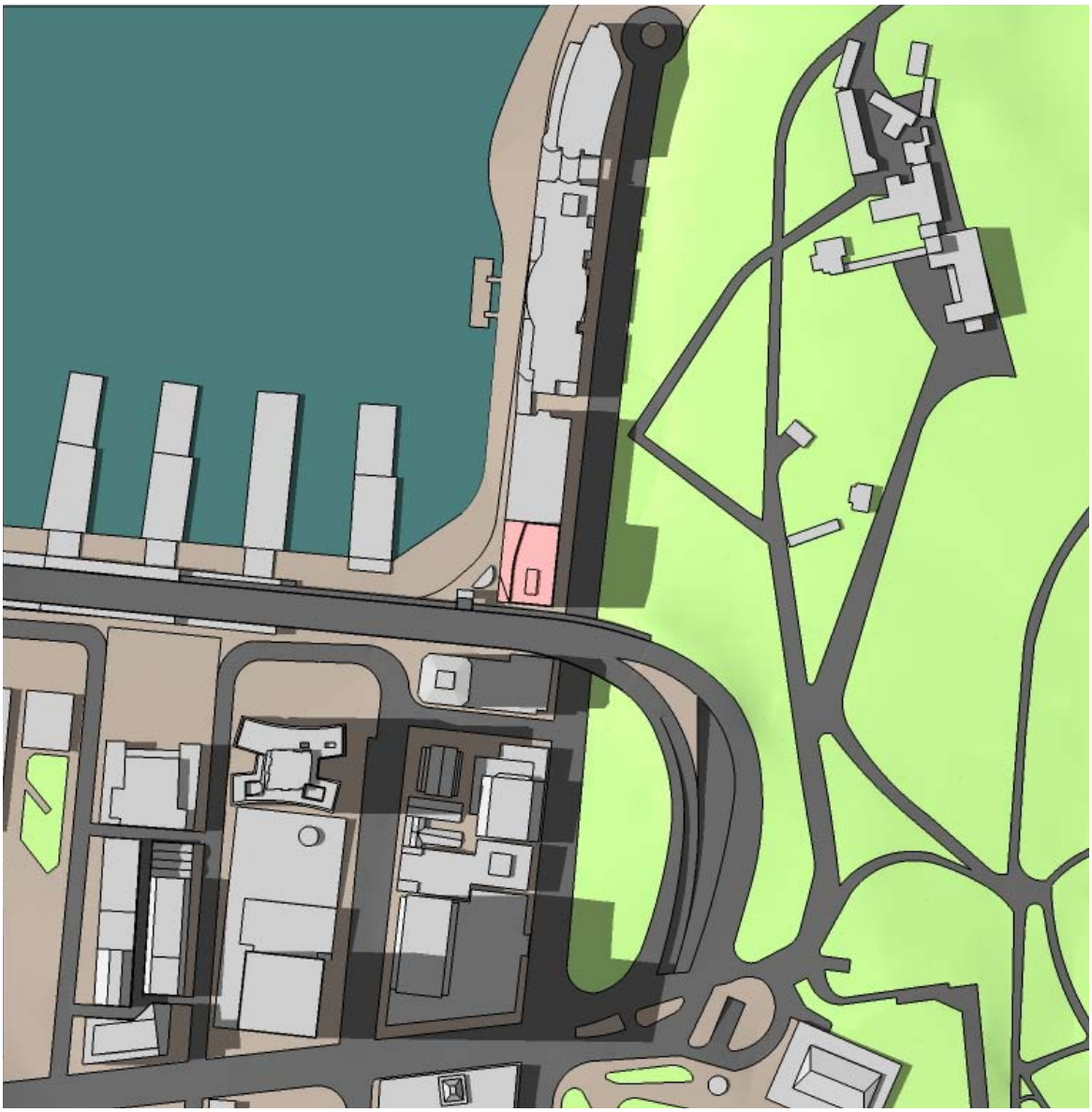

Figure 24: Proposed Building – December 21 (1500hrs)