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7/09/2022

**Structural Design Statement
Advertising Signage Structure
Cormorant Road, Kooragang**

30086453-19

Dear Steve,

We write in response to your recent request for structural engineering advice in relation to a new freestanding advertising signage structure located on the southern side of Cormorant Road, Kooragang.



Figure 1 – Locality plan (proposed location circled)

Arcadis has undertaken a feasibility assessment of the proposed signage structure, based on the geotechnical and contamination report prepared by GHD Pty Ltd dated 9th March 2022.

The proposed advertising signage structure is referred to as a double-sided freestanding monopole with nominal display faces of 8.32m long x 2.24m high, with the top of the structure being nominally 7.0m above ground level. The signage structure will be purpose-designed and fabricated to accommodate a digital screen on one face and a rear illuminated static display on the other. The design will also incorporate the provision of ancillary components, such as digital controllers and an electrical distribution board.

The proposed signage structure will have a total combined weight of 50kN.

Our feasibility assessment confirms that the freestanding advertising signage structure founded on reinforced concrete bored piles and pile cap is structurally adequate, complying with the requirements of the relevant Australian Standards.

Furthermore, our feasibility assessment has confirmed that the signage structure will comply with the requirements of.

- Australian Standard AS.1170.1 – SAA Loading Code, Part 1: Dead and live loads and load combinations
- Australian Standard AS.1170.2 – Structural design actions, Part 2: Wind actions

A copy of our feasibility assessment is enclosed for your reference.

Trusting the above satisfies your requirements.

Should you require any further information or clarification please do not hesitate to contact the undersigned.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Chris Slater'.

Chris Slater
Senior Engineer
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