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QB306-02F01 Fence Certification (r0)

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Residential Subdivision - 409-429 Park Ridge Road, Park Ridge - Certification of Constructed Fences adjacent to Lots 201 and Lot 208

1.0 Introduction

Further to your request, we have inspected the acoustic fences that have been erected along the boundaries of Lots 201 to 208 at 409 to 429 Park Ridge Road, Park Ridge (Solander Estate).

As you are aware, our office has previously prepared acoustical reports to address traffic noise impacts onto the subdivision (Our ref: QB306-01F01 Acoustic Report (r1), *Residential Subdivision, 409-429 Park Ridge Road, Park Ridge – Traffic Noise Assessment*). The report assessed traffic noise levels onto the subdivision with the inclusion of the acoustic fences shown in Table 1 and Figure 1.

Table 1: Bottom and Top RLs of proposed fences

Point (Refer to Figure 7)	Top RL of Fence (m)
A	34.0
B	33.5
C	33.0
D	35.0
E	35.0
F	35.0
G	35.5
H	35.5
I	36.0
J	35.5

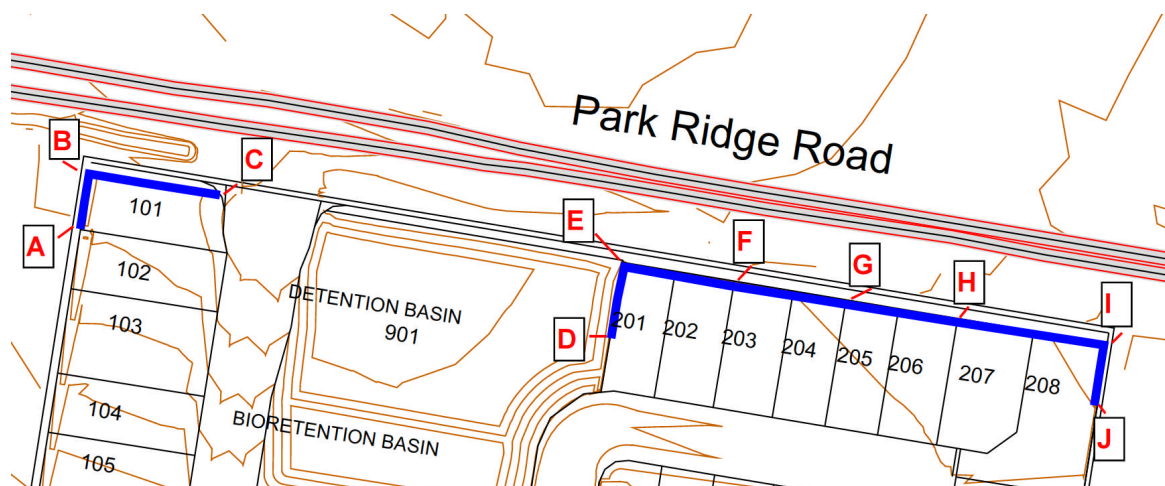


Figure 1: Acoustic fences

2.0 Results of Inspection

Inspections of the constructed fences were conducted on 6th April 2018, 14th May 2018 and 31st May 2018. It was observed that the fences were constructed using lapped timber palings and capped at the top. Fences were constructed adjacent to Lots 201 and 208 (Ref: Points D to J in Figure 1).

The fence at Lot 101 (Ref: Points A to C in Figure 1) was not fully constructed at the time of inspection. There is a display home at Lot 101 and the Client requires unobstructed view of the display home from Park Ridge Road. The fence at Lot 101 will be constructed at a later stage.

The top RLs of the constructed fences were surveyed by DTS and the survey drawings are presented in Appendix B. A comparison between the surveyed levels and Figure 1 shows that the top RLs of the constructed fence met or exceeded the design RLs at most locations, with the exception of the section at Lot 205. The constructed fence at Point G was approximately 100mm lower than the designed fence requirement.

The noise model was updated to reflect the as-constructed acoustic fences. A comparison between predicted noise levels for the as-designed and as-constructed fences showed that there were no significant overall noise impact changes.

The relevant details of the fences are presented in Table 2.

Table 2: Details of constructed acoustic fences – Lot 201 to Lot 208

Construction Element	Fence Segment Details
Material of Construction	Pine
Thickness (mm)	25mm (ave)

3.0 Conclusions

From inspection of the constructed fences and a review of the documentation supplied, it was concluded that the general construction requirements including the height and density requirements are acceptable.

In this instance, the standard of workmanship was found to be acceptable, i.e. timber palings were of consistent width and within acceptable bounds, there was little evidence of any significant warping, twisting, splitting or cracking.

The fences adjacent to Lot 201 to Lot 208 were determined to have been constructed in accordance with the requirements of our design report.

The fences at Lot 101 will be inspected for certification when the construction is complete. A separate report will be issued for that section of fence.

We trust that the information provided is adequate for your purpose at this stage. If you require any further information, please do not hesitate to contact us.

Document Control

Date	Revision History	Non-Issued Revision	Issued Revision	Prepared	Instructed	Authorised
03.07.2018	0	-	Final	DR	DR	PJ

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APPENDIX A Top RL Survey of Constructed Fences – DTS

