FLOOD MANAGEMENT REPORT

Clemton Park Village - Lot 31

For

BUPA Care Services

Job Number: 048/11

25 November 2013



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1. INTRODUCTION

1.1 Purpose

Craig and Rhodes Pty Ltd. have been engaged by BUPA Care Services; to prepare civil engineering advice on Flood Levels to support a DA submission for their proposed aged care development at Lot 31, 60 Charlotte St, Clemton Park.

1.2 Site Description

The development at Lot 31, 60 Charlotte St, Clemton Park sits on the now demolished and cleared Sunbeam Factory site. The property is situated within the City of Canterbury and lies within the Cup and Saucer Creek tributary to the Cooks River Catchment. Lot 31 is situated at the southern part of the overall Clemton Park Village development. The stage is bound by the proposed Tedbury St (North) and the existing Alfred St (west) the cup and Saucer creek to the south.

The site generally drains from North to South, discharging to Cup and Saucer Creek. Existing elevations currently range 21.50 and to RL 20.00 to the south.

Refer Figure 1 – Site Location Plan.





Figure 1 - Site Location Plan



2. 100 YEAR FLOOD EVENT.

The Cup and Saucer Creek flows in an easterly direction at the southern boundary of stage 5. In the 100 year flood event the Cup and saucer over tops to the adjacent land within stage 5 and the existing road network.

A flood study has been carried out and accepted as part of the Project Application Approval (MP No. 08_0087). The highest 100 year flood level in proximity to the site is 21.3m AHD at the corner of Alfred Street and Harp Street.

Craig and Rhodes have verified this model using HECRAS and the extents of the existing flooding is shown within Appendix A.

The proposed building and associated external works are shown in Appendix B.

The lowest habitable floor level of the proposed building is 22.90 which is more than 500mm higher than the highest adjacent 100year flood level at the corner of Alfred Street and Harp Street.

The proposed levels have been set to mitigate any affect to the existing 100 year flood regime.

Where the proposed external works impact the existing volume of flood storage compensatory storage greater than that of the existing situation is provided. This is achieved by re-profiling the existing site between the cup and saucer creek and the proposed building.

The eastern half of the building is built on columns above the 100 year flood extents which does not affect the flood plain. As previously discussed the lowest habitable flood level is over 500mm above the 100 year flood level.



3. SUMMARY AND CONCLUSION

The proposed site is within the 100 year flood plain of The Cup and Saucer creek.

The proposed development is designed to accommodate the 100 year flood event by providing compensatory storage where required, building over the existing 100 year flood plain and setting habitable floor levels over 500mm above the 100 year flood level.

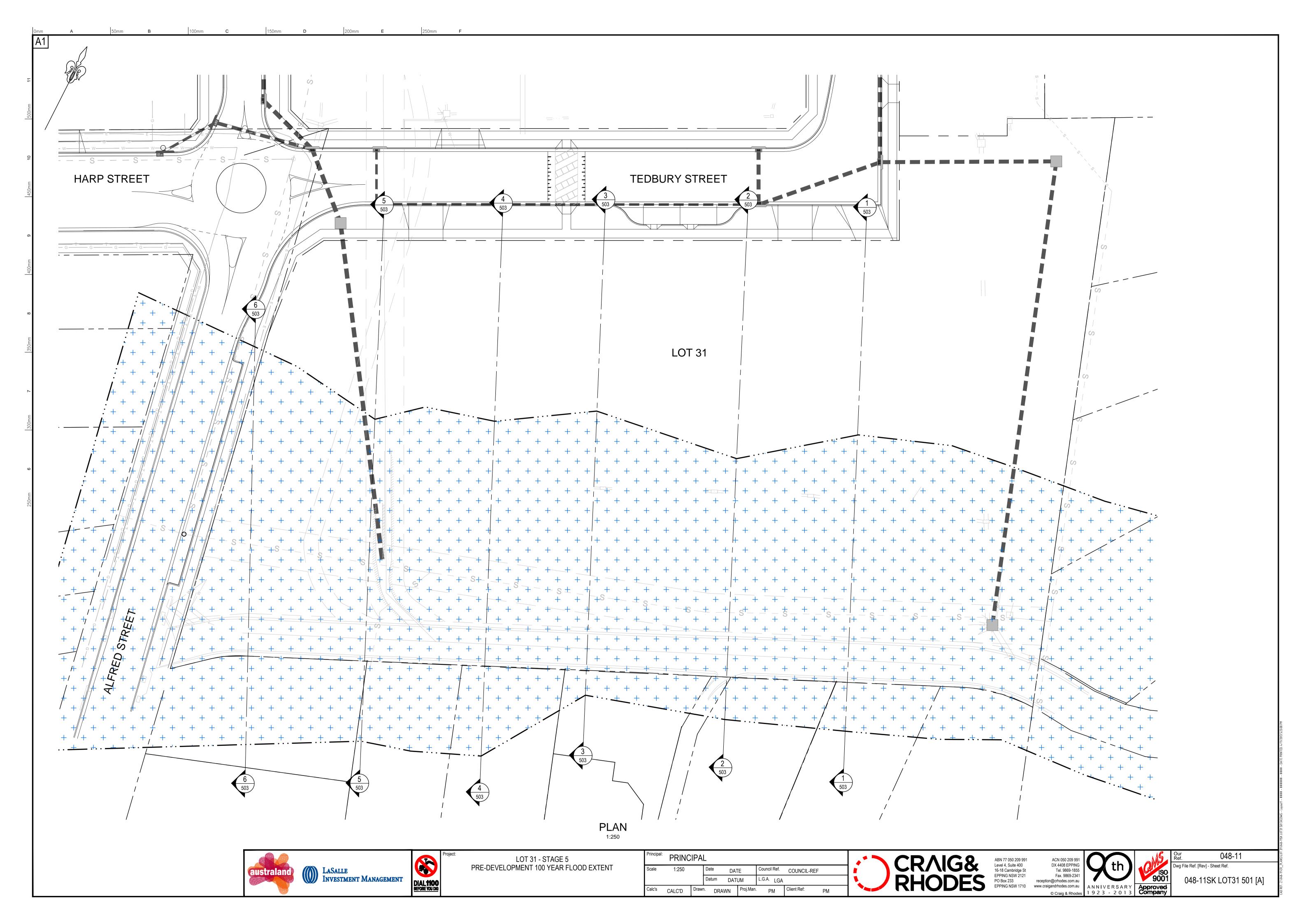
Therefore, it can be concluded that the proposed building infrastructure does not negatively impact on the existing flood regime and therefore complies with the conditions of the concept plan approval.

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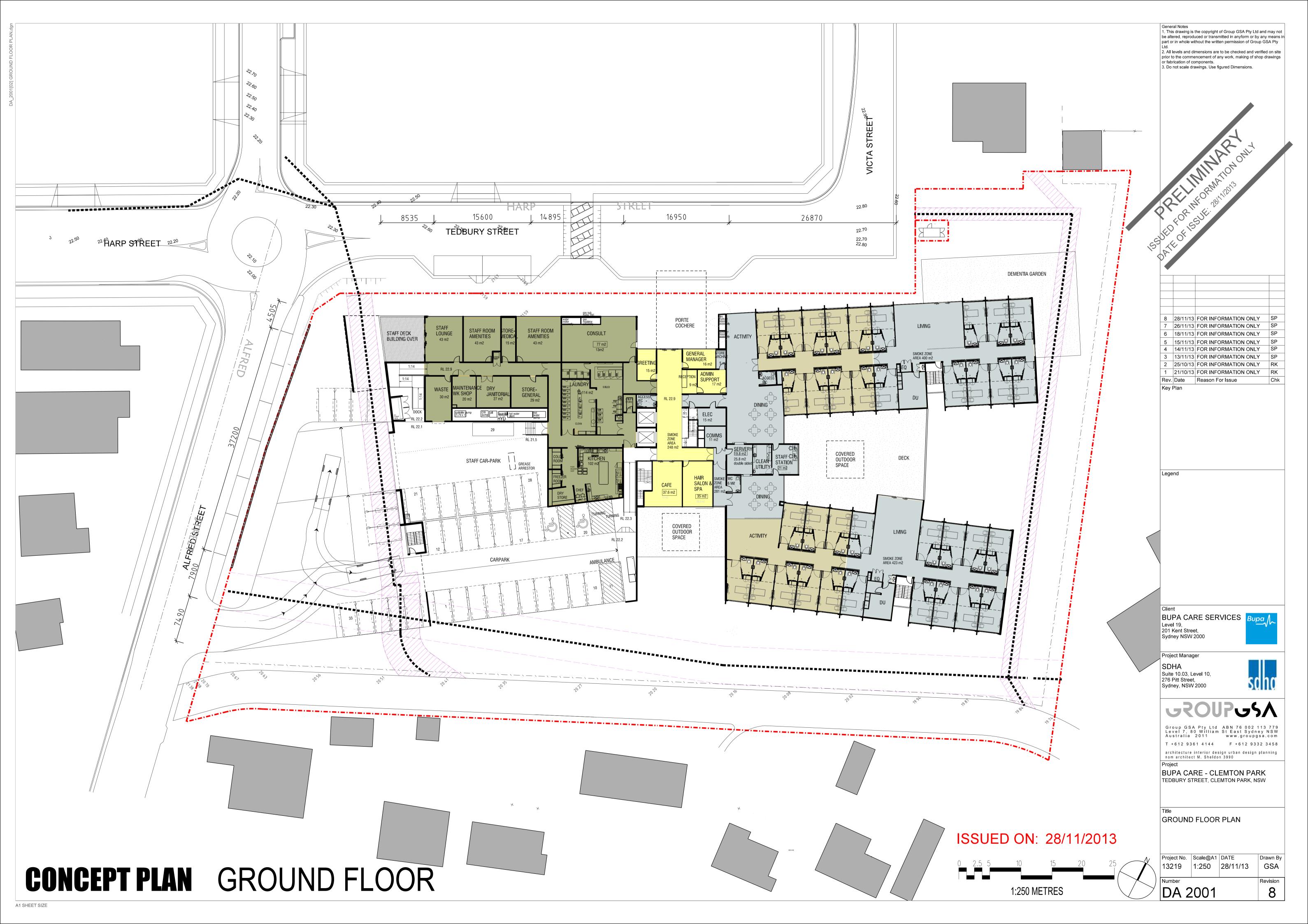


APPENDIX A-PRE DEVELOPMENT CONDITION





APPENDIX B GROUND FLOOR PLAN





APPENDIX C POST DEVELOPMENT SITUATION.

