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Swept path analysis for the proposed car parking space at 153 Balgowlah Road, in Balgowlah, NSW

This report was prepared on instructions from 'Studio Oulala Architects' and in response to Northern Beaches Council referral letter dated 28th of February 2022 to address the development engineer comments who requested from Traffic Engineering Centre Pty Ltd to undertake a swept path analysis for a B85 design vehicle (refer to Figure 1.1), showing the manoeuvre of the vehicle, and how it would enter and exit the proposed car space in accordance with AS2890.1:2004 (refer to Figure 1.2).

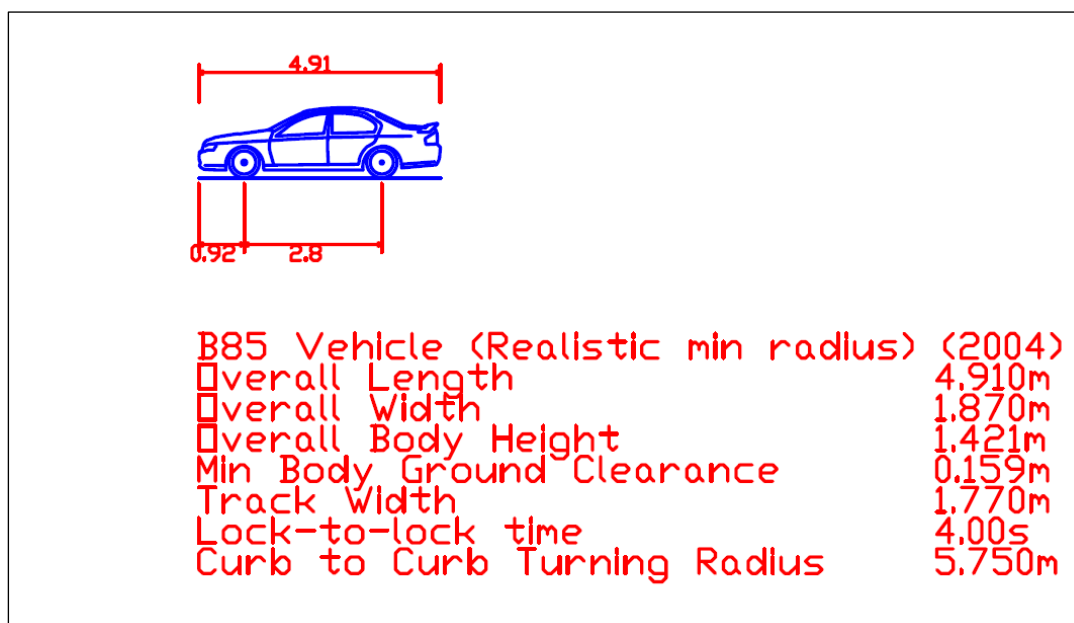


Figure 1.1

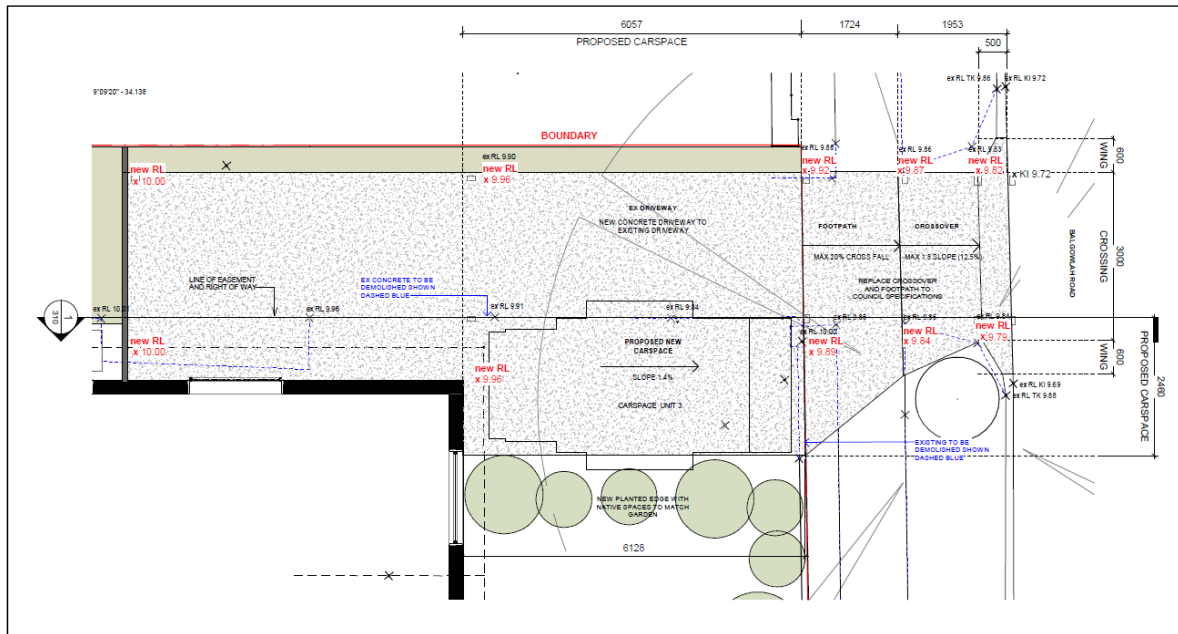


Figure 1.2

The turning swept path analysis, performed for a B85 vehicle, has demonstrated the exit from / entry to the parking space, suggesting the following:

- The vehicle could enter the car parking space in a reasonably safe and convenient manner by reversing onto it (refer to Figure 1.3, and Appendix A).
- The parked vehicle could exit the car parking space in a reasonably safe and convenient manner by moving forward (refer to Figure 1.4, and Appendix A).

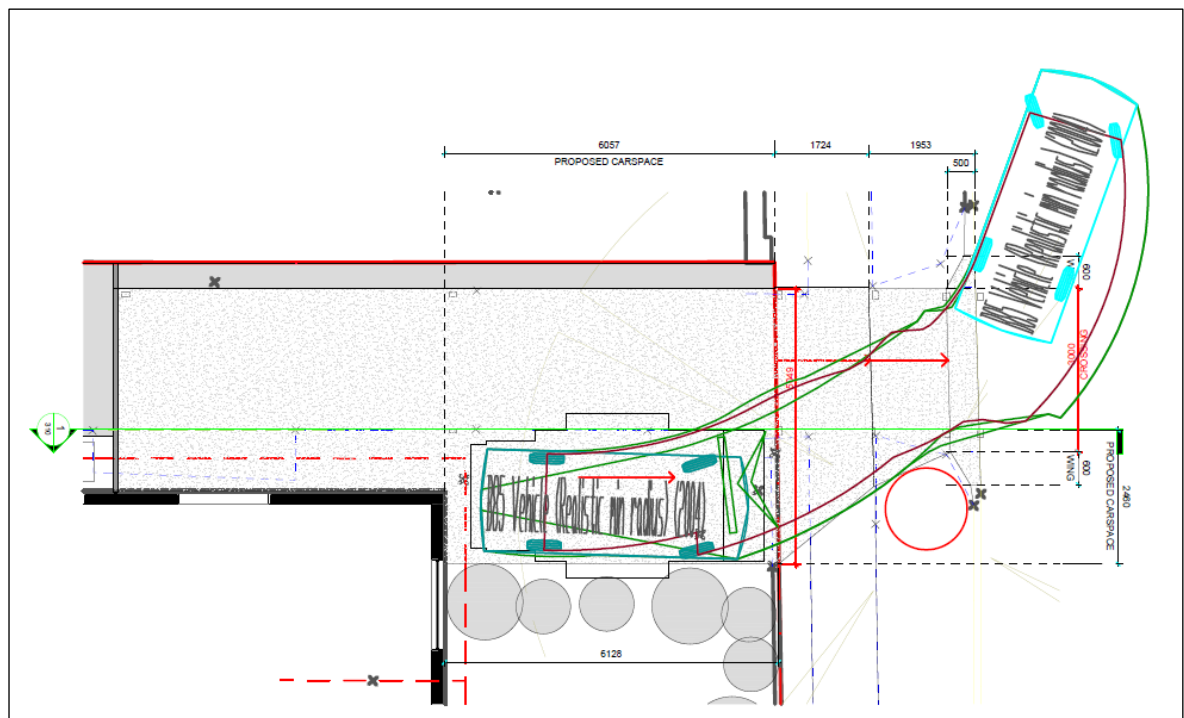


Figure 1.3: B85 vehicle reverses into the parking space

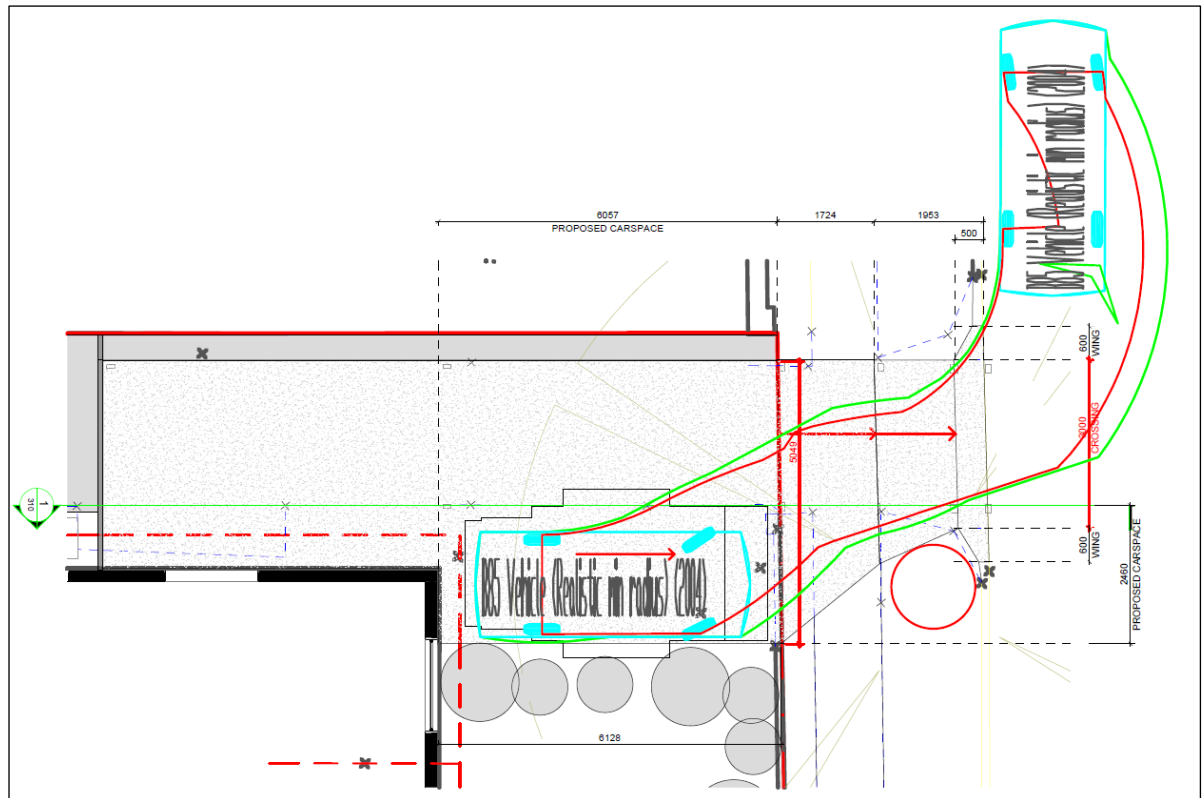


Figure 1.4: B85 vehicle leaves the parking space moving forward

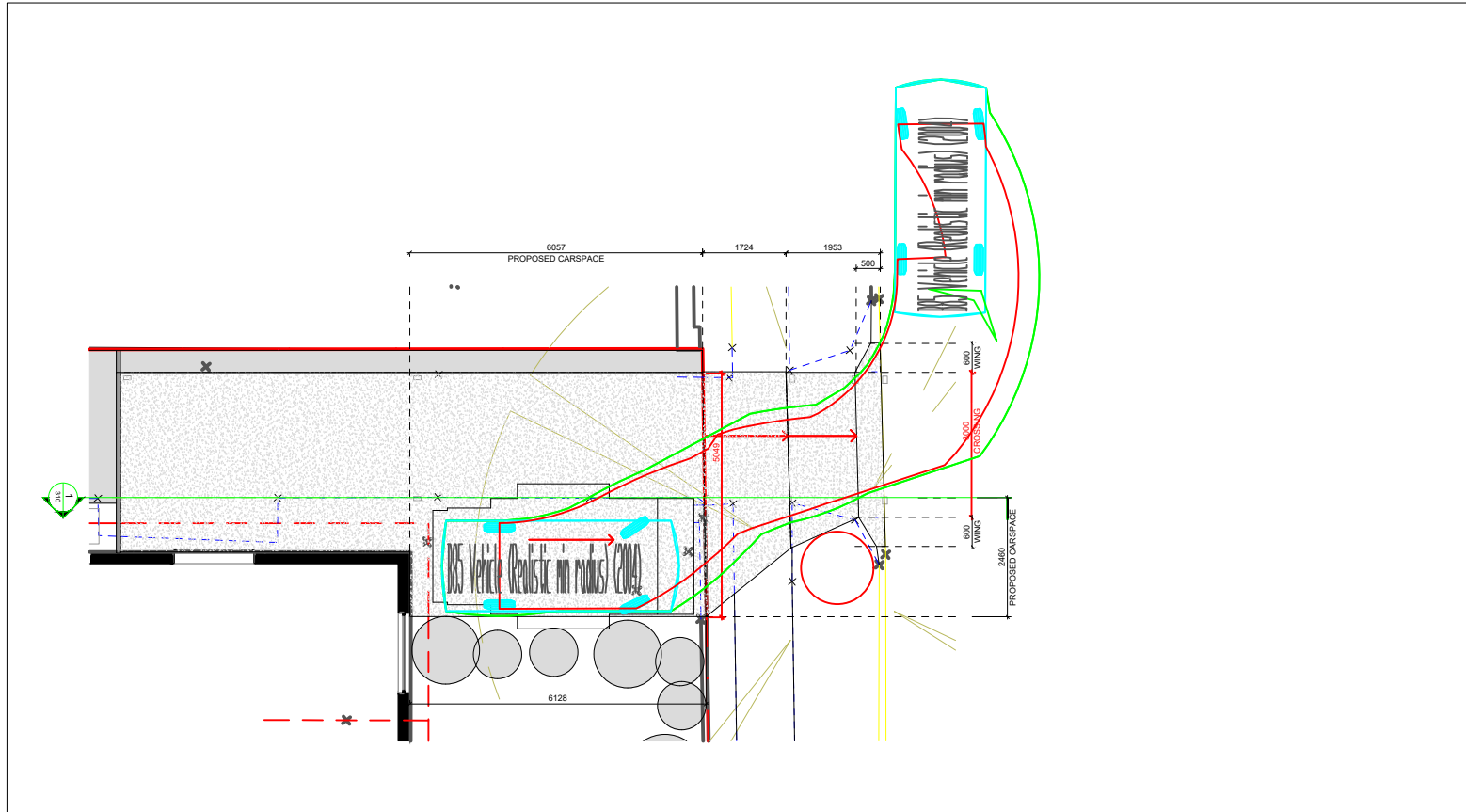
Conclusion

I am of the opinion that the proposal could be accepted on merits, as it provides a reasonably safe and convenient manner to enter and exit the car parking space in residential area, where the occupants would be familiar with the traffic environment and circumstances, when reversing into the car parking space.

Zoran Bakovic

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 Lead Level 3 Road Safety Auditor (NSW) (ID:471); Senior Road Safety Auditor (QLD, VIC, WA)
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 Member of the California Association of Accident Reconstruction Specialists (USA)
 Member of Member of The Institute of Traffic Accident Investigators (UK)
 Past President of AITPM (NSW & ACT)
Traffic Engineering & Road Safety Expert

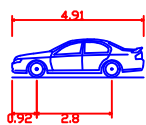
Appendix A



Swept Path Analysis-B85 Vehicle

153 Balgowlah Road, Balgowlah, NSW

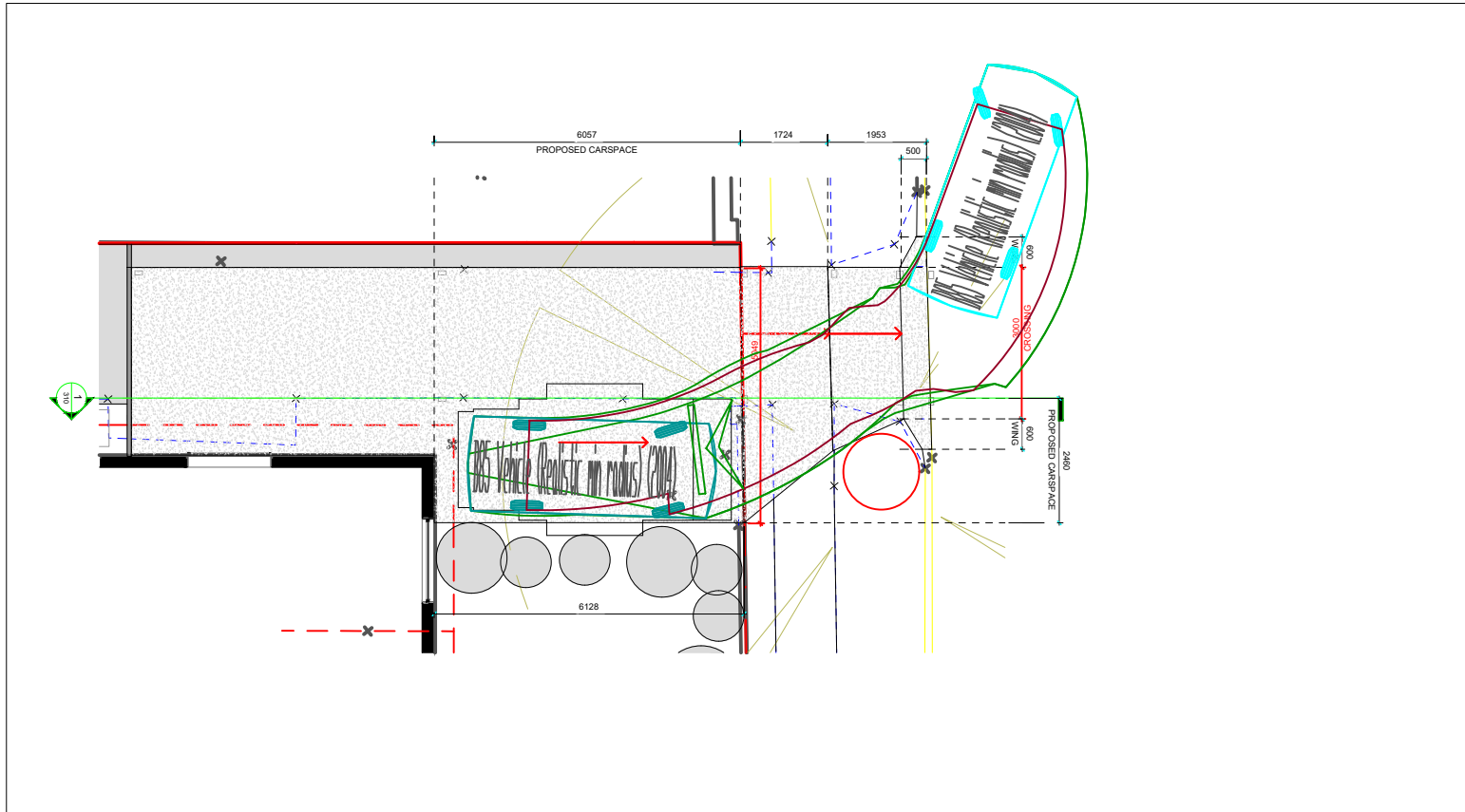
B85 vehicle leaves the parking space moving forward



B85 Vehicle (Realistic min radius) (2004)
 Overall Length 4.910m
 Overall Width 1.870m
 Overall Body Height 1.421m
 Min Body Ground Clearance 0.159m
 Track Width 1.770m
 Lock-to-lock time 4.00s
 Curb to Curb Turning Radius 5.750m

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