

23 November 2022

Ms N Foster  
Tapir Planning and Design  
PO BOX 4113  
Frankston Heights

Document Reference 16025L01

Dear Ms Foster

**Application No YR – 2022/944 – 59 Morris Road, Upwey**

I have been requested by the Applicant to review the vehicle access arrangements of the site, specifically the egress of vehicles from the subject site onto Morris Road. This request is due to a request for further information dated 15 November 2022 from Yarra Ranges Council including item 1 below:

1. **Demonstrate that there is adequate sight distance for safe vehicle exit movements from the site as it is reduced by large trees and the existing vehicle crossing being on the inside of a bend in Morris Road.**

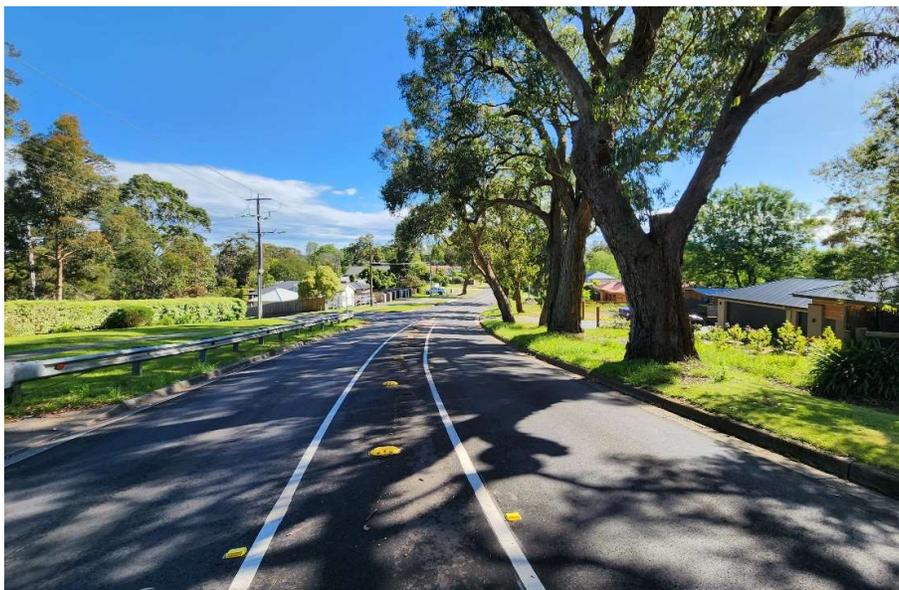
**Existing Conditions – Morris Road**

Morris Road is a major local road under the management of Yarra Ranges Shire Council. The road is approximately 8.7 metres wide from kerb to kerb and features a painted median. The median assists in reducing vehicle speeds by narrowing the traffic lanes in each direction as well as offsetting opposing vehicle movements. The median also supports pedestrians to cross the road in stages. Parking is not permitted along Morris Road within the vicinity of the subject site.

Morris Road is a 60 km/h road. A 40 km/h school zone speed limit operates along the frontage of Upwey South Primary School. The 40 km/h school zone speed limit operates from 8 am until 9:30 am and from 2:30 pm until 4 pm on school days. The school zone speed limit does not extend along the frontage of the subject site.



**Figure 1: Morris Road facing north**



**Figure 2: Morris Road facing south**

The road gradient along Morris Road is steep at multiple sections. This includes the section of road immediately north of the subject site where the road ramps up until Bayview Avenue. The road flattens at Bayview Road for approximately 180 metres before ramping down again.

South of the site Morris Road ramps down towards Forest Park Road, however between Forest Park Drive and Griffiths Road approximately 90 metres further south the road grade is generally flat.

**Morris Road – general off street vehicle access**

Vehicle access the site is proposed via a sealed 3 m wide crossover. Swept path diagrams prepared by Traffkd confirm egress from the site can be performed in a forward direction onto Morris Road.

During the site inspection undertaken by Traffkd, vehicles parked within the were parked in a configuration that would require vehicles to egress from the site in a reverse motion. A similar observation was made of other properties proximate to the site.

**Site Distance at the subject site when egressing onto Morris Road**

A review of sight distance of the existing driveway has been completed including a review of visibility both to the north and south of the site for right and left turning movements respectively. This has been completed in accordance with Figure 3.2 of AS2890.1. A summary of the assessment completed by Traffkd has been summarised in the table below.

<b>Movement to be accommodated onto Morris Road</b>	<b>Direction of Sight distance checked</b>	<b>Speed Limit</b>	<b>Desirable Sight Distance</b>	<b>Minimum Sight Distance</b>	<b>Sight Distance observed during site inspection</b>
Left turn	South	60 km/h	83 m	65 m	96m
Right turn	North				41m



Figure 3: Drivers sight line facing north when egressing from 59 Morris Road



Figure 4: Drivers sight line facing south when egressing from 59 Morris Road

As part of Traffkd's assessment a review of VicRoads crash stats dataset has been completed updated on 5 August 2021. No crashes have been recorded in the most recent five-year period available within a 200-metre radius of the site along Morris Road.

Whilst no crashes have occurred within the vicinity of the site in the most recent five year period it is noted the sight distance to the north of the site does not satisfy the sight distance requirements included in AS2890.1 This is generally not achieved for multiple sites along Morris Road including some intersections. It is noted however in the context of the subject site, vehicles travelling south along Morris Road are travelling downhill when approaching the subject site. This exacerbates the noncompliance of sight lines for right turning given vehicles would be likely to accelerate whilst travelling downhill towards the site and also require a greater distance to stop on the downhill slope. Drivers also have a restricted view of vehicles due to trunks of mature tree obstructs drivers' sightlines. Given the commercial use of the site proposed, drivers are unlikely to be familiar with the road conditions along Morris Road.

In light of the above it is recommended that "Left Only" signage is installed within the subject to restrict vehicle movements left only when egressing from the site. This can be implemented by way of permit condition.

Yours sincerely,



**Chris Tsiafidis**  
**Traffic Engineer**  
 B. Eng Civil (Hons)  
 Traffkd Pty Ltd

# APPENDIX A – SWEPT PATH DIAGRAMS



CAR SPACE  
2600x3400

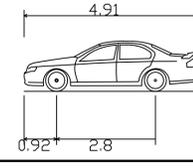
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SEWER  
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DEPTH  
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SEWER  
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REV	DATE	DESIGN REVIEW	REV'D PMCR	APP'D PMCR	REVISIONS	DRN	CHKD	APP

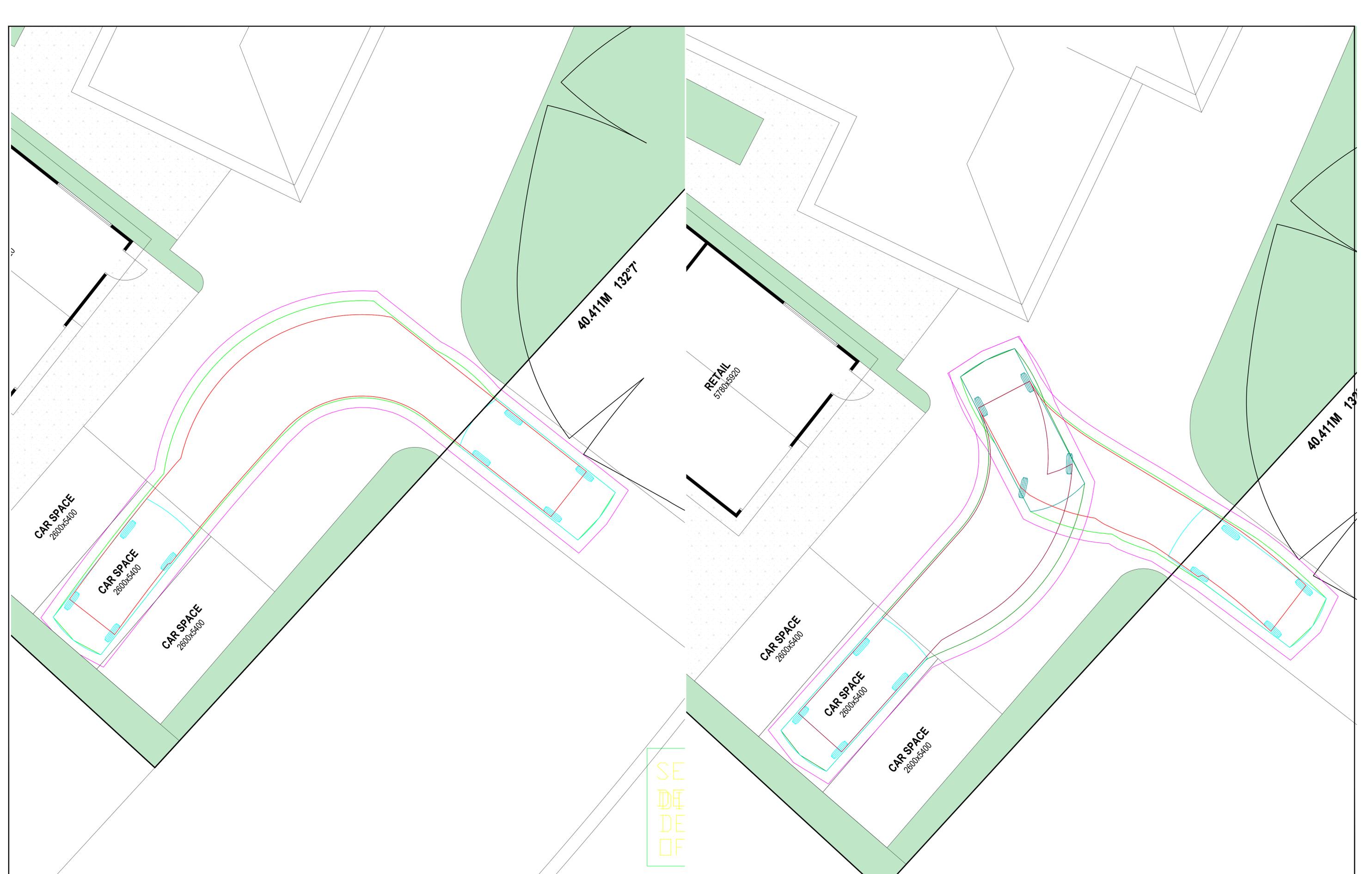


**B85 Vehicle (AS 2890.1)**  
 Overall Length 4.910m  
 Overall Width 1.870m  
 Overall Body Height 1.421m  
 Track Width 1.770m  
 Vehicle Body  
 Wheel Path (forward) 0.92m  
 Wheel Path (reverse) 2.8m  
 Vehicle Body Clearance +300mm

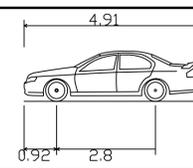
TRAFK  
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SCALE 1:50 @ A1  
 SURVEYED -- DRAWN C. Tsiofidis

JOB TITLE  
**Proposed Residential Development**  
 59 Morris Road, Upwey VIC 3158  
 CLIENT: Tapir Planning and Design  
 SHEET NUMBER 1 of 3  
 DRAWING REF 16008SPD  
 VERSION 1



REV	DATE	DESIGN REVIEW	REV'D PMCR	APP'D PMCR	REVISIONS	DRN	CHKD	APP



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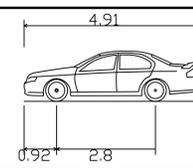
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JOB TITLE  
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 SHEET NUMBER 2 OF 3  
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 VERSION 1



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 Overall Width 1.870m  
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 Vehicle Body Clearance +300mm

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 SHEET NUMBER 3 OF 3 DRAWING REF 16008SPD VERSION 1