

Waste Management Plan

710 Mount Ridley Road, Mickleham

Project Number 250270

Final 2 Report 7/05/2026

Client Glossop Town Planning

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Document control

Report title	710 Mount Ridley Road, Mickleham
Project number	250270
Client	Glossop Town Planning
Client contact	Edwina Laidlaw

Revision	Date issued	Revision details / status	Prepared by	Authorised by
Draft	15/01/2026	Preliminary draft	Bailey Vroom	Bernard Chan
Final	15/04/2026	Final	Bailey Vroom	Bernard Chan
Final 2	15/04/2026	Revised Final	David Do	Bernard Chan

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Executive summary

Glossop Town Planning engaged Trafficworks to prepare a waste management plan (WMP) for the proposed primary school at **710 Mount Ridley Road, Mickleham**.

The table below summarises the site and the proposed development, and our conclusions and recommendations.

Address	710 Mount Ridley Road, Mickleham
Zoning	Green Wedge Zone (GRZ)
Proposed development	Primary School (400 students)
Municipality	City of Hume
Weekly waste generation	— 3,800 L of general garbage waste — 2,000 L of co-mingled recyclable waste — 200 L of organics waste
Bin schedule, collection frequency and storage arrangement	General garbage: 2 x 1,100 L bins, collected twice per week Co-mingled recyclable waste: 2 x 1,100 L bins, collected once a week Organics waste: 1 x 240 L bin, collected once a week All bins will be stored within a bin storage area adjacent to the internal circulation road.
Bin collection arrangement	Collection by private contractor

Referenced documents

References used in the preparation of this report include the following:

- Sustainability Victoria – Guide to Best Practice for Waste Management in Multi-Unit Developments (2019)

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Table of Contents

1	Introduction	1
1.1	The proposed development	1
1.2	Limitations	2
1.3	Applicable Standards and References.....	3
2	Waste generation.....	4
2.1	Garbage generation	4
2.2	Co-mingled recyclables generation	4
2.3	Organics generation	5
3	Waste storage facilities.....	6
4	Proposed bin schedule and collection arrangements	8
4.1	Number of bins and collection frequency.....	8
4.2	Collection arrangements - private collection	10
5	Management responsibilities.....	11
5.1	General waste management responsibilities	11
5.2	School responsibilities.....	11
5.3	Waste management plan revisions	11
6	Related waste management arrangements.....	12
7	Supplementary Information	13
7.1	Contact information.....	13
7.2	Private waste collection services.....	13
7.3	Bin suppliers	13
7.4	Bin cleaning services.....	13
Appendix 1 – Site Plan		14
Appendix 2 – Swept Path Assessment.....		15

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1 Introduction

Glossop Town Planning engaged Trafficworks to prepare a waste management plan (WMP) for the proposed primary school at **710 Mount Ridley Road, Mickleham**. The location of the proposed development is shown in Figure 1.



Figure 1: Proposed development location (reproduced with permission from Melway publishing or Nearmap)

1.1 The proposed development

The proposed development includes the following:

- primary school, accommodating up to 400 students and 50 staff
- multi-purpose hall
- oval / futsal field / soccer field / basketball court
- staff car parking spaces.

Vehicular access to the site will be provided via new access points on Mount Ridley Road.

An extract of the site development plan is shown in Figure 2 below.

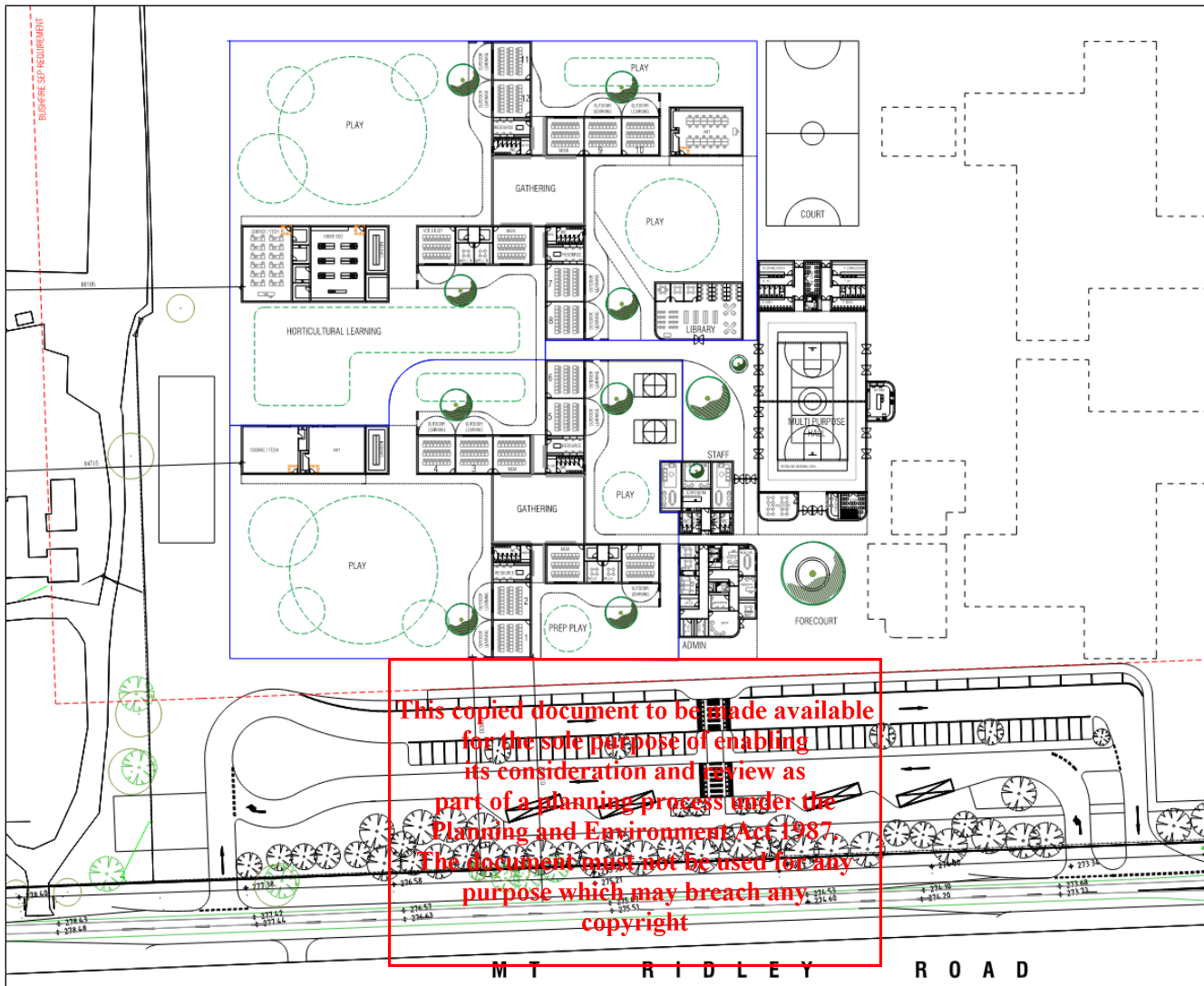


Figure 2: Extract of site development plan

The full site development plan is provided in **Appendix 1 – Site Plan**.

1.2 Limitations

This waste management plan has been prepared to accompany the development application. A separate waste management plan should be prepared to accompany future planning applications at the site.

Waste management arrangements during the construction and fit-out stages of the development, and the on-going operation and monitoring of the waste management arrangements for the development following the occupation of the development are outside the scope of this Waste Management Plan.

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1.3 Applicable Standards and References

Relevant guidelines and publications considered as part of the preparation of this waste management plan include:

- Waste Management and Recycling in Multi-unit Developments – Sustainability Victoria (2019)

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2 Waste generation

Waste generation rates provided in the Waste Management and Recycling in Multi-unit Developments (Sustainability Victoria, 2019) were considered.

For education facilities the guidelines outline a garbage generation rate of 1.5L/student/week and a recycling generation rate of 0.5L/student/week. Based on observations of similar schools, this rate is considered too low and does not accommodate the realistic generation of waste for a school.

Previous empirical data for schools were adopted to provide a more realistic representation of the waste generation. The following rates were adopted for this assessment:

- Garbage: 10 L/student/week
- Recycling: 5 L/student/week.

2.1 Garbage generation

The estimated garbage generation has been calculated based on the number of students that the school will accommodate, as shown in Table 1. An estimated 5% of the total garbage generated will be diverted to organics waste stream, so the garbage waste stream includes 95 % of the total calculated garbage generation.

Table 1: Estimated garbage generation (excluding organics)

Component	No. of students	Garbage generation rate (L/student/week)	Estimated garbage generation (L/week)
Primary school	400	10	3800
Total:			3800*

*5 % of garbage expected to be diverted to organics waste bins

2.2 Co-mingled recyclables generation

The co-mingled recycling generation has been estimated based on the number of students that the school will accommodate, as shown in Table 2.

Table 2: Estimated co-mingled recyclables generation

Component	No. of students	Recyclables generation rate (L/student/week)	Estimated co-mingled recyclables generation (L/week)
Primary school	400	5	2000
Total:			2000

2.3 Organics generation

The organics generation has been estimated based on the number of students that the school will accommodate, as shown in Table 3. Organics comprise 5 % of the total garbage generation. This percentage is based on assumption that organics will only be separated from garbage in the staff and canteen areas.

Table 3: Estimated organics generation

Component	No. of students	Estimated organics generation (L/week)
Primary school	400	200
Total:		200

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3 Waste storage facilities

Waste will be stored in an on-site bin storage area accessible from the internal circulation road. The area will accommodate space for all bins listed in Table 5, and additional space for the storage of hard waste and spare bins. The location of the proposed bin storage area is shown in Figure 3 below.

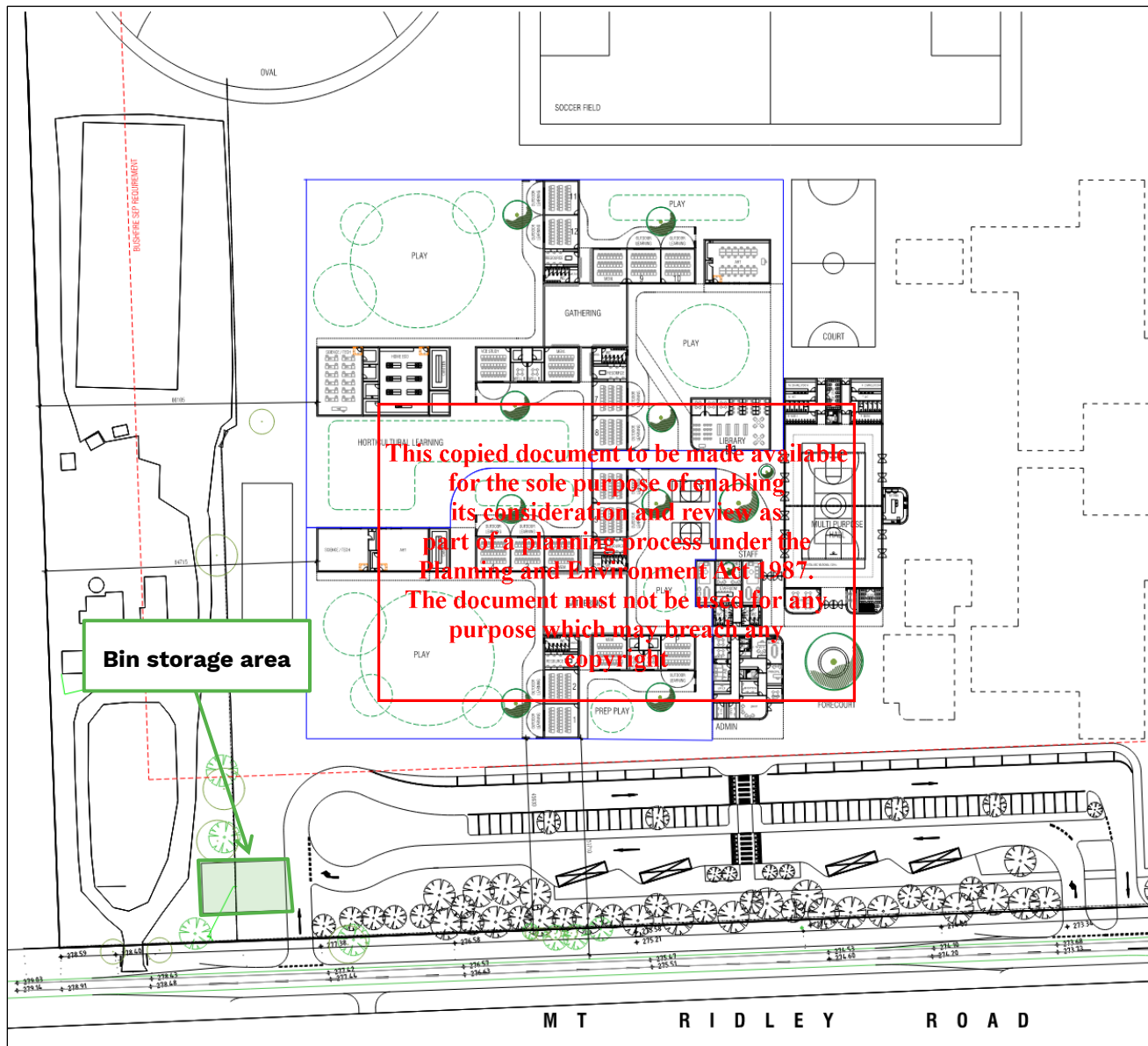


Figure 3: Bin storage area location

General requirements

- comply with the Building Code of Australia (BCA) and all relevant Australian Standards
- allow storage of all waste and recycling bins on site at all times
- allow easy access for users to the bins
- allow easy, direct, and convenient transfer of bins to the collection point

- where necessary, provide artificial light outside the bins storage area to enable the contractor to collect waste safely at all times
- ensure the path for transferring bins from the bin room/enclosure to the collection point is smooth, of adequate width, free of lips, and without steps.

Space and facility requirements

- waste facilities shall be sized to accommodate all waste arising on the premises together with the associated equipment for handling the generated waste
- each bin must be accessible and manoeuvrable in and out of the waste storage area with the minimum or no handling of other bins
- bin areas must be maintained to ensure that the aesthetics of the development is not compromised
- bulk bin area must be secured and restricted to trained personnel only, to prevent unauthorised access
- bin area must have an appropriate clearance height to accommodate the waste chutes system and bins as specified by the appointed bin chute supplier
- bin area must have an appropriate clearance height for waste collection vehicles
- signs showing the correct disposal of waste shall be displayed within the waste storage area.
- the floor of the bin area shall be constructed of concrete, graded, and drained to an approved drainage outlet connected to the sewer and shall be finished to a smooth and even surface.

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Ventilation and bin washing requirements

- the garbage and recycling storage area shall be ventilated by an approved system of mechanical exhaust ventilation in accordance with the requirements of the Building Code of Australia and AS1668.2
- ventilation openings shall be protected against flies and vermin
- door/s to bin areas shall be tight fitting
- a graded bin wash area / a bin wash area isolated with a hosecock, hose and a suitable floor-waste shall be provided in accordance with the relevant authority requirements.

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4 Proposed bin schedule and collection arrangements

4.1 Number of bins and collection frequency

Based on the waste generation estimates calculated in **Section 2 Waste generation**, 1,100 L and 240 L bins are proposed for the storage of waste, detailed in **Table 6**.

Table 4: Bin details

Bin (L)	Height (m)	Width (m)	Depth (m)	Area (m ²)
1100	1.47	1.37	1.25	1.71
240	1.06	0.59	0.73	0.39

Table 5 summarises the number and size of bins required, as well as the collection frequency and bin storage area required. The proposed bin schedule provides sufficient allowance to meet the estimated waste generation of the development calculated in **Section 2 Waste generation**.

It is recommended that spare bins are provided to accommodate any weekly variation or future changes in waste generation.

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Table 5: Bin schedule and collection frequency

Waste Stream	Bin Quantity	Bin colour Code	Bin Size (L)	Combined bin floor area (m ²)	Collections per week	Capacity (L/week)
Garbage	2	Red	1,100	3.5	2	4,400
Co-mingled recyclables	2	Yellow	1,100	3.5	1	2,200
Organics	1	Lime green	240	0.5	1	240
Hard waste	This copied document to be made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any copyright				As required	

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4.2 Collection arrangements - private collection

Waste will be collected up to four times per week by a private collection contractor (twice a week for garbage, once a week for recycling, and once a week for organics waste). A 10.5 m rear-lift vehicle will be used for the collection of waste. The truck will stop within the internal circulation road, outside of school times, to collect waste.

Appendix 2 – Swept Path Assessment demonstrates that the waste collection vehicle can undertake waste collection and exit the site in a forward direction.

The provision of garbage waste receptacles is recommended throughout the school, including within each of the classrooms, staff and canteen areas. Bin liners shall be used on all garbage receptacles.

It is expected that the majority of recycling waste will be generated within the classrooms, and therefore it is recommended that each classroom include a recycling receptacle to accommodate paper and cardboard waste.

The provision of organics waste receptacles is recommended within the staff area and the canteen.

At the end of each day, school cleaners will transfer the bagged waste from the receptacles around the school dispose the waste in the bulk bins.

NOTE:

Bins shall **not** be left on the access aisle or public roadways at any time. Following waste collection activities, the bins shall be returned to the bin storage area as soon as possible.

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5 Management responsibilities

5.1 General waste management responsibilities

General garbage waste must be placed within tied bags prior to disposal.

All recycling waste is to be uncapped, drained, and rinsed prior to disposal. Recycling waste must not be placed within plastic bags.

5.2 School responsibilities

The school shall be responsible for the following:

- engaging and managing the waste management and cleaning contractor, including the frequency of waste and recyclables removal
- developing and implementing adequate safe operating procedures (including the preparation of Safe Work Method Statements)
- securing the waste areas to protect equipment from theft and vandalism
- servicing all public areas by removal of litter on a regular basis
- educating students and staff on the correct disposal of waste to minimise contamination
- publishing and distributing information or rules to ensure that users are familiar with the waste management system and the use and location of the associated equipment
- bins are kept in good order at all times and in a clean and sanitary condition
- ensuring that bins provided for use at the designated site are not removed.

5.3 Waste management plan revisions

The school shall be responsible for co-ordinating the necessary revisions to the waste management plan on an on-going basis. This could be in response to:

- changes in the legislative requirements
- changes in operational needs
- changes in waste patterns, such as waste composition, volume, or distribution
- unforeseen operational issues.

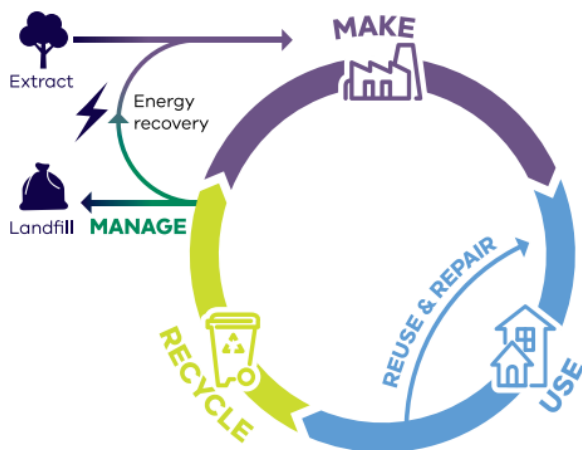
Changes to waste management plans may involve:

- a waste audit and new waste management strategy
- revision of the waste system, such as bin size, collection frequency, or equipment update
- re-education of users
- any necessary statutory / regulatory requirements / approvals.

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6 Related waste management arrangements

The Victorian Government's Circular Economy policy, released in February 2020 by Recycling Victoria, outlines the importance of establishing a circular economy which continually seeks to reduce the environmental impacts of production and consumption, while enabling economic growth through more productive use of natural resources. It encourages waste avoidance through good design and effective recovery of materials that can be reused, and promotes intense and efficient product use, such as sharing products between multiple users, or supplying a product as a service that includes maintenance, repair, and disposal.



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Figure 6.1: Resources flows in a circular economy

The transition to a circular economy will be guided by four goals spanning the life cycle of materials:

- Goal 1 – Design to last, repair and recycle
- Goal 2 – Use products to create more value
- Goal 3 – Recycle more resources
- Goal 4 – Reduce harm from waste and pollution

Ongoing education and management services are critical in encouraging staff and students to use the services and systems as intended and align with these broader goals. The school should promote the above strategy where practicable and encourage staff and students to minimise the impact of their waste on the environment. In particular, the following should be considered:

- the establishment of waste reduction and recycling targets
- the monitoring of waste streams
- undertake periodic waste audits, including the monitoring of recyclables found in landfill-bound bins. The results of such audits should be shared with the school to encourage further reductions in waste where possible.

7 Supplementary Information

7.1 Contact information

Hume City Council (Local Council) – Phone 9205 2200

7.2 Private waste collection services

Kartaway: Phone 1300 362 362

Wastewise Environmental: Phone 1300 550 408

SITA: Phone 13 13 35

JJ Richards: Phone 03 9794 5722

Veolia Environmental Services: www.veolia.com.au

Ace Waste: Phone 1300 850 901

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7.3 Bin suppliers

Sulo MGB Australia: Phone 1300 364 388

One Stop Garbage Shop: Phone 03 9338 1411

7.4 Bin cleaning services

Eco-Safe Technologies (odour control equipment supplier) – Phone: 03 9706 4149

Odour Control Man: Phone 1300 800 621

NOTE: The above includes a complimentary listing of contractors and equipment suppliers. The school is not obligated to procure goods/services from these companies. Trafficworks does not warrant or make representations for the goods / services provided by these suppliers.

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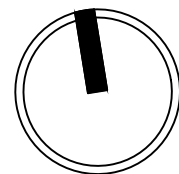
Appendix 1 – Site Plan

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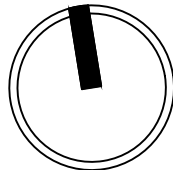
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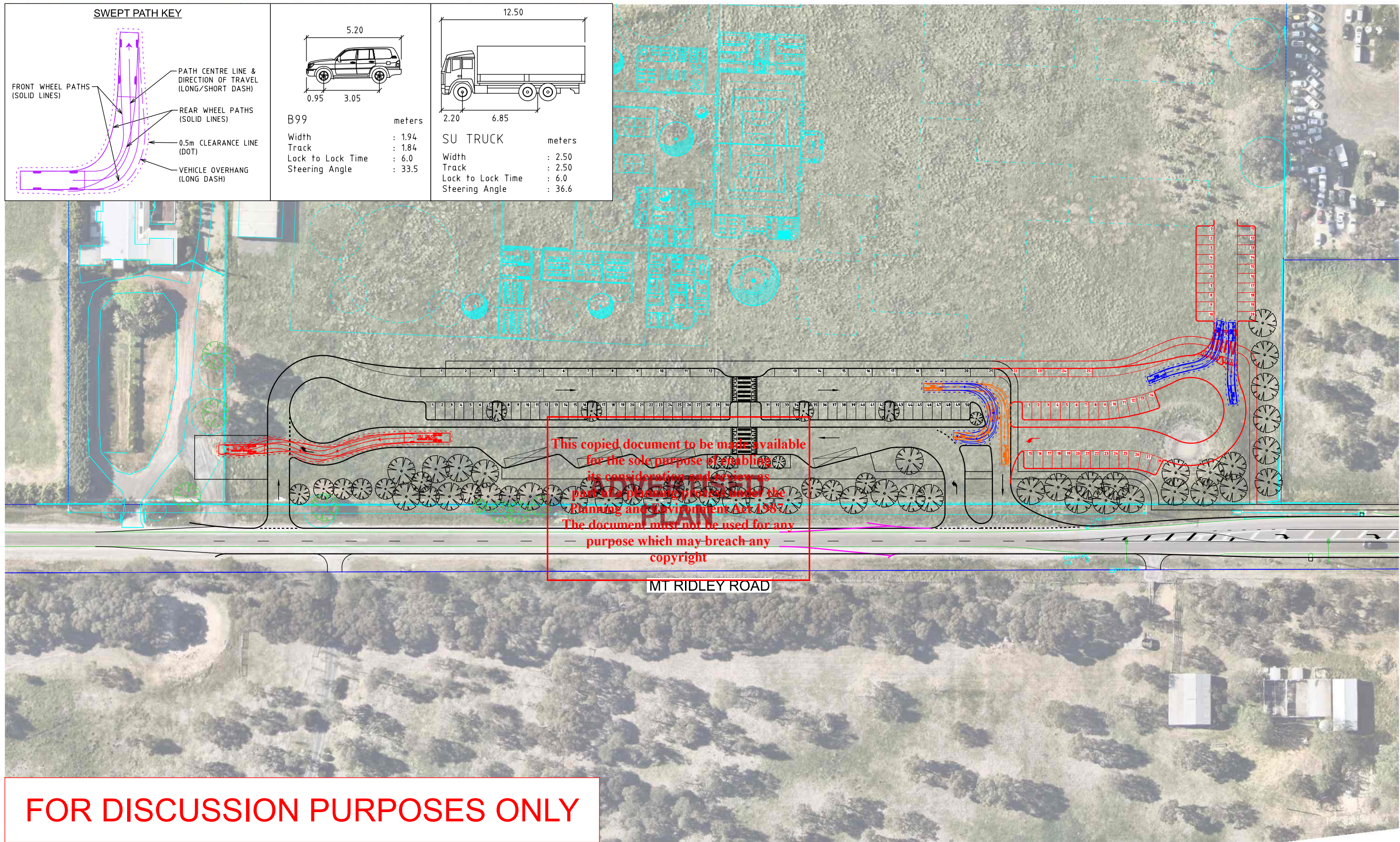


Appendix 2 – Swept Path Assessment

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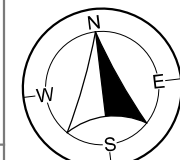
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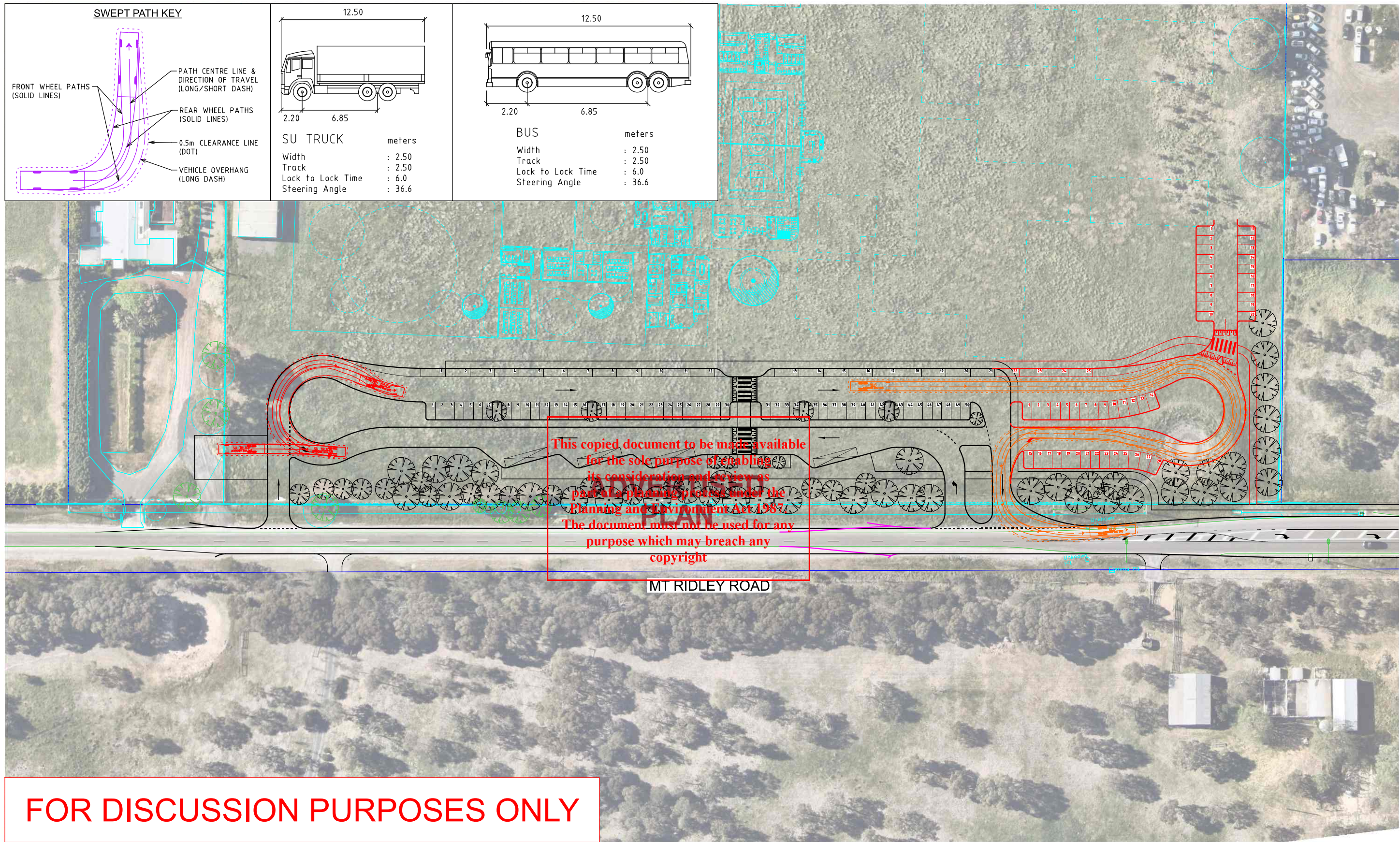
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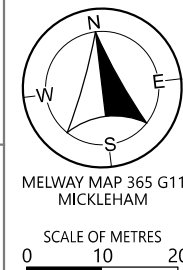
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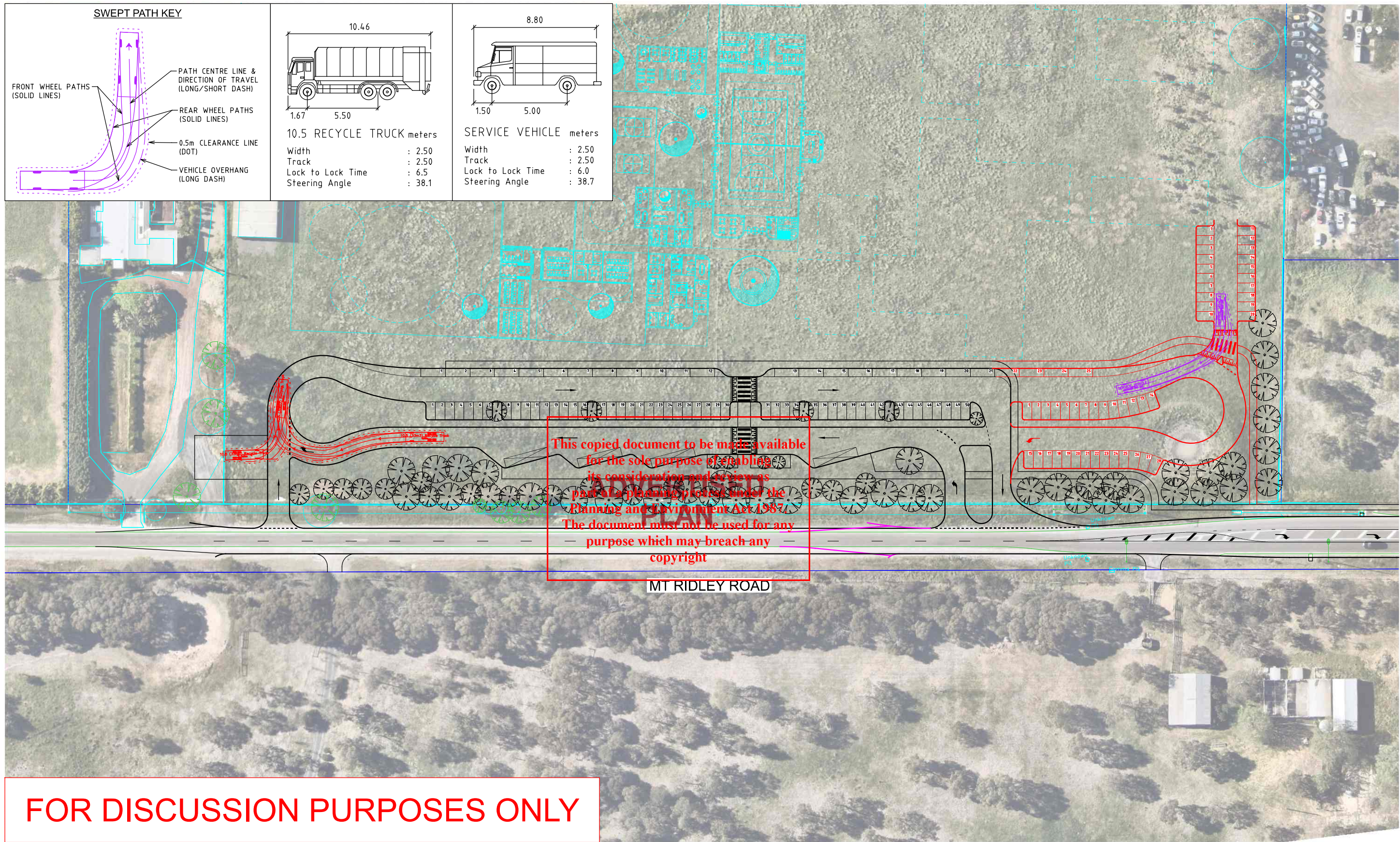
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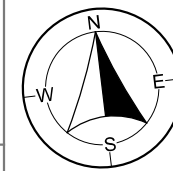
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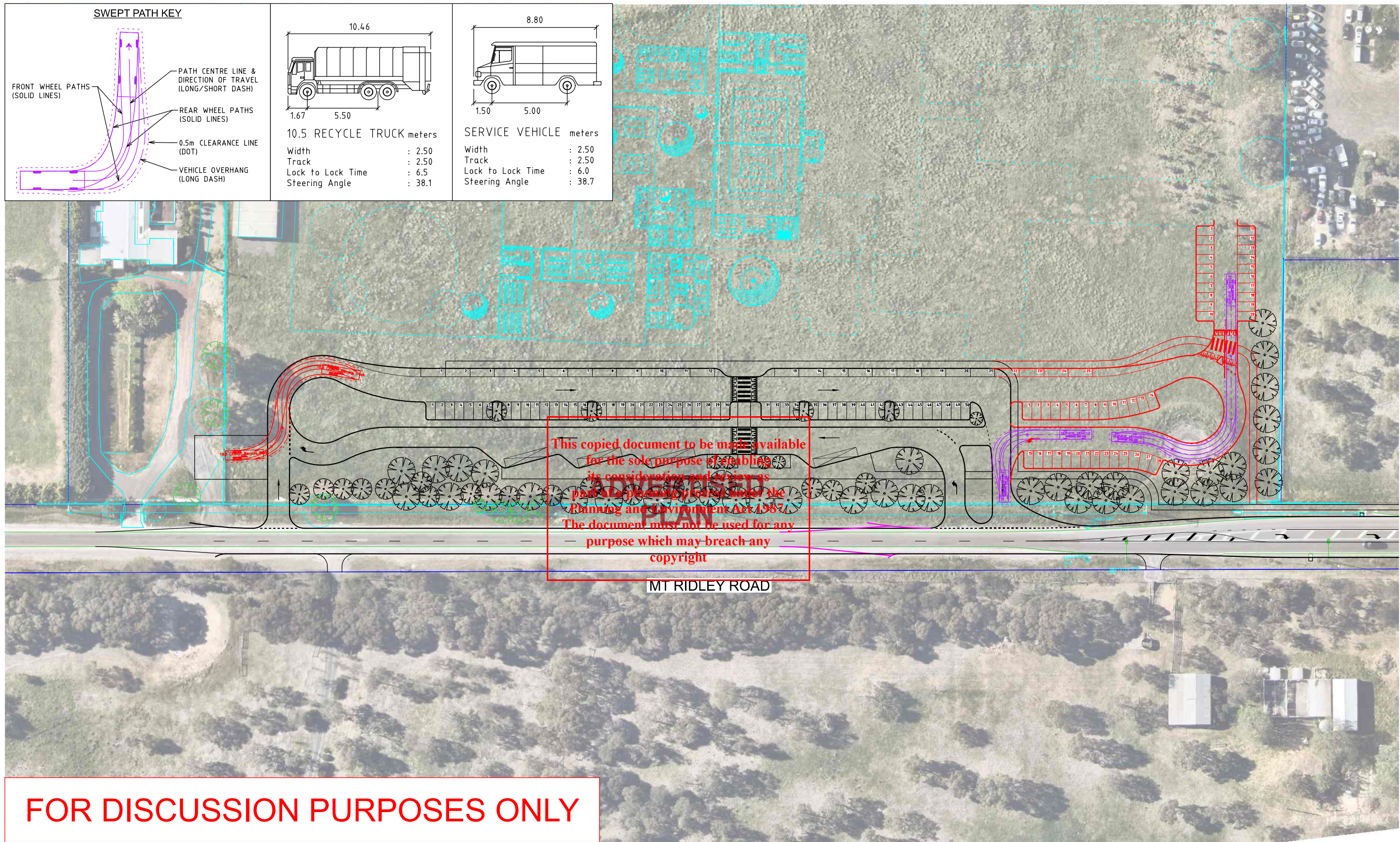
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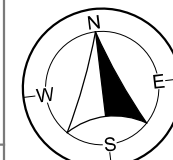
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