



Traffic & Transportation Direction

Murray Terminal BESS

45 Waterfall Farm Road,
Khancoban

Route Assessment

May 2025

Reference: 1188 ra 250527 draft

Murray Terminal BESS

45 Waterfall Farm Road,
Khancoban

Route Assessment

Prepared for: NGH Pty Ltd

Status: Final report

Date: 29 May 2025

Reference: 1188 ra 250527 draft

Revision	Date	Description	Author	Reviewed	Approved
A	27/05/25	Draft	M. Willson	M. Willson	M. Willson
B	29/05/25	Final	M. Willson	M. Willson	M. Willson

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1. Introduction

Amber has been asked to provide a Route Assessment for the proposed Murray Terminal BESS. The Route Assessment provides a review of the suitability of the access route from the Victoria / New South Wales border to the site access which traverses Alpine Way and M2 Power Station Road.

An assessment letter has previously been prepared in order to advise the Scoping Report and an additional traffic assessment has been prepared to advise on any significant traffic matters that may impact the feasibility and practicality of the project. The requirement for this Route Assessment has been identified given the surrounding road network is largely unrated for heavy vehicles, the location of the site within mountainous terrain, and the potential cost of road upgrades given the road geometry.

The Route Assessment has been undertaken to determine whether two B-Double vehicles are able to pass simultaneously and whether the largest oversize/overmass (OSOM) vehicle is able to access the site.

2. Road Environment

Alpine Way is a State road to the east of M2 Power Station Road and a Regional road further to the west. It typically has a carriageway width of approximately 7.0-8.0m accommodating one lane of traffic in each direction and narrow grassed shoulders. It has a speed limit of between 80-100 km/hr.

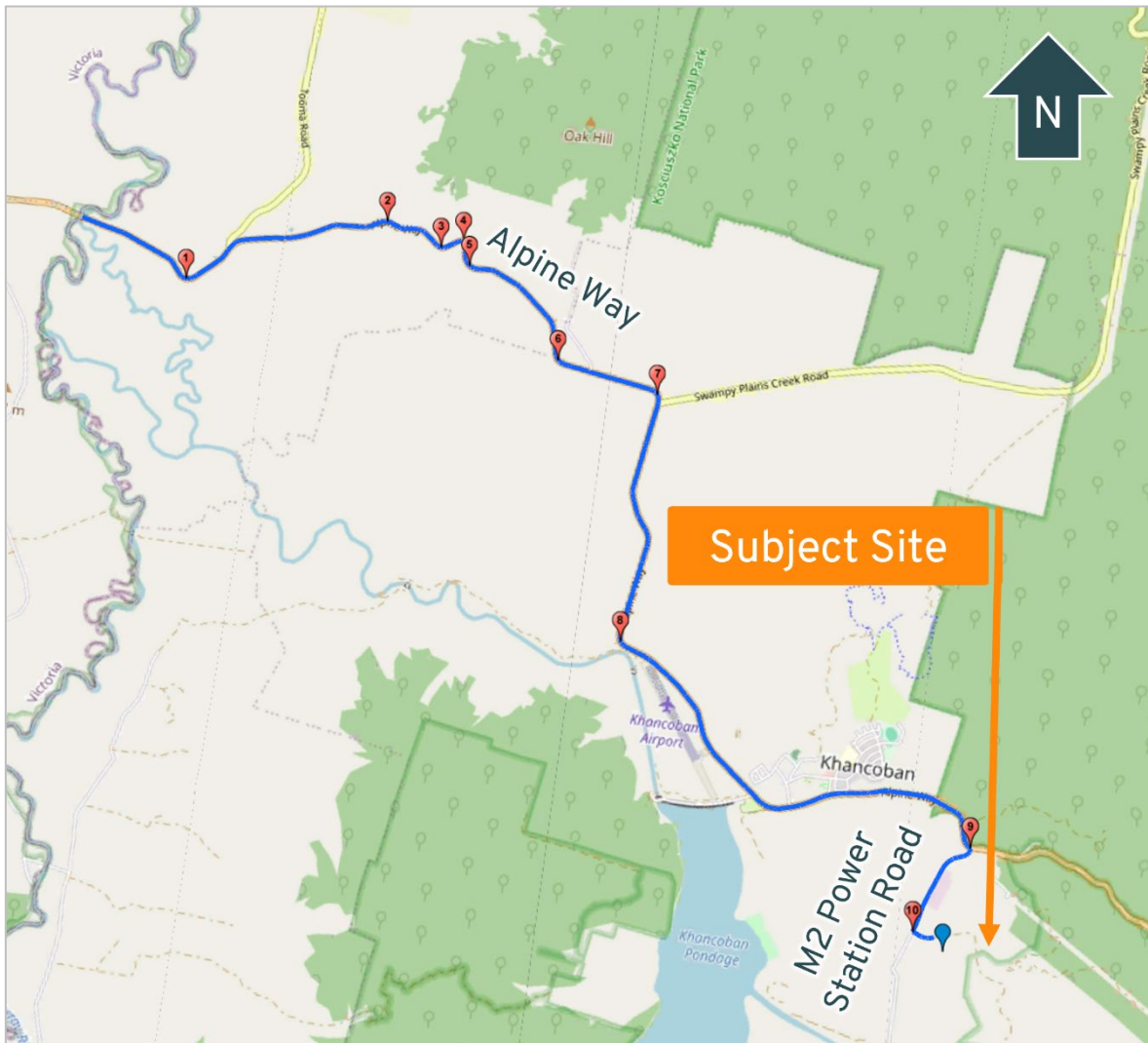
M2 Power Station Road is a local road that runs in a general north-south alignment between Alpine Way and Murray Two Hydroelectric Power Plant. It has a carriageway width of approximately 6.0-7.5m accommodating traffic in both directions with either narrow unsealed shoulders or kerbs.

3. Route Assessment

3.1 Access Route

The access route from the border to the site would utilise Alpine Way and M2 Power Station Road. Figure 1 shows the site location and access route in relation to the surrounding transport network as well as the identified 'pinch points'.

Figure 1: Site Location and Route



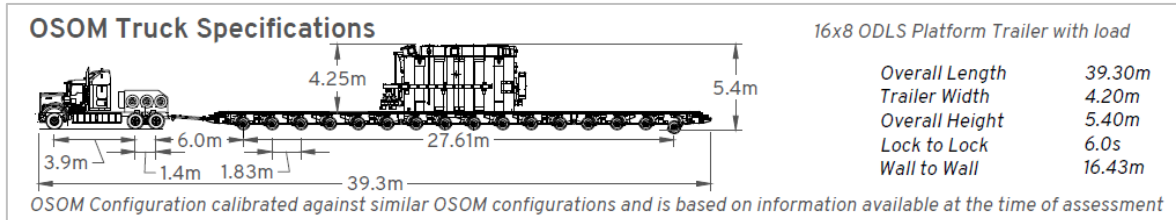
Source: Google Maps Link

3.2 Assessment Vehicles

The assessment has been undertaken to demonstrate that two 26 metre long B-Double vehicles are able to pass simultaneously. The vehicle is based on the specifications provided within the Austroads Guide.

The assessment has also reviewed the ability for the largest OSOM vehicle to access the site. The vehicle would be associated with the delivery of the transformer and is shown within Figure 2 based on our experience with other similar projects in the area.

Figure 2: OSOM Vehicle



Source: ODLS

3.3 Assessment Summary

The assessment is provided within Appendix A and indicates that the route is able to accommodate two B-Doubles passing simultaneously and the OSOM vehicle excluding at Location 7 where some road widening would be required. It is noted that this location has a culvert which would also require upgrading as part of the road widening.

It is noted that a Basic Right Turn Treatment and some widening has been shown at the intersection of Alpine Way and M2 Power Station Road. This would be a requirement from TfNSW to accommodate the regular construction traffic of the project and would be something that would be determined as part of the future Traffic Impact Assessment. This has been shown indicatively at this time. It is also noted that some upgrades may be required at the site access and connection with the unnamed road bordering the site which would also be designed as part of the future Traffic Impacts Assessment.

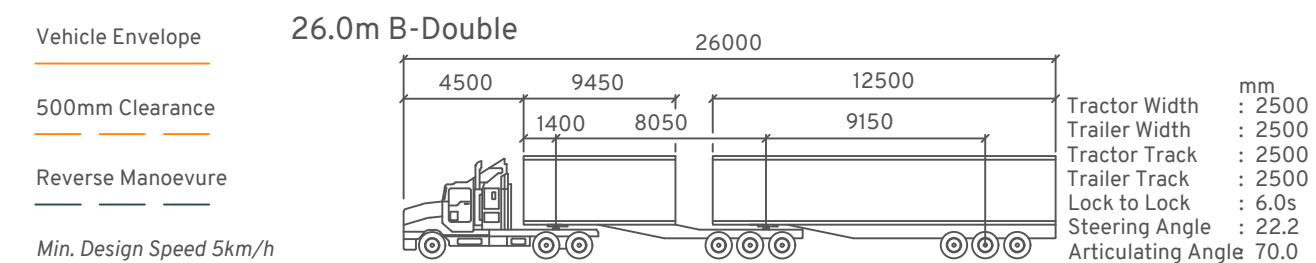
Appendix A

Swept Path Assessment





Point 1. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750

MyMaps Link for pinch points assessed



Point 1. Location: Online Link

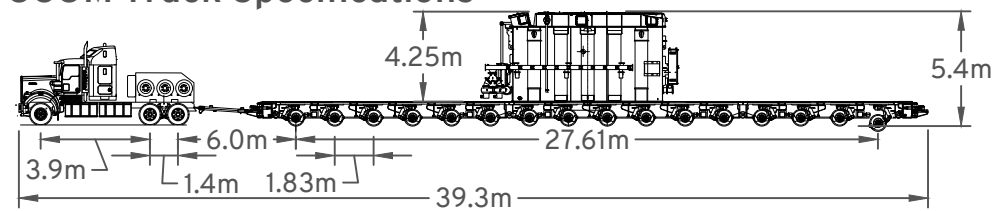
Vehicle Envelope

500mm Clearance

Reverse Manoeuvre

Load Outline

OSOM Truck Specifications



OSOM Configuration calibrated against similar OSOM configurations and is based on information available at the time of assessment

16x8 ODLS Platform Trailer with load

Overall Length	39.30m
Trailer Width	4.20m
Overall Height	5.40m
Lock to Lock	6.0s
Wall to Wall	16.43m



Murray Terminal BESS

OSOM Vehicle
Swept Path Assessment

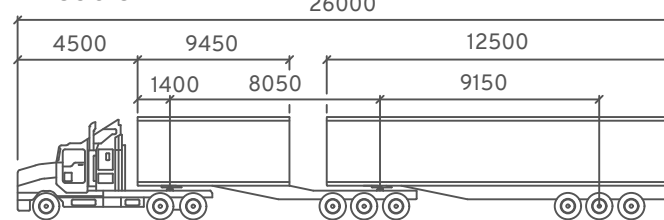
DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 2. Location: Online Link

Vehicle Envelope
 500mm Clearance
 Reverse Manoeuvre
 Min. Design Speed 5km/h

26.0m B-Double



Tractor Width : 2500
 Trailer Width : 2500
 Tractor Track : 2500
 Trailer Track : 2500
 Lock to Lock : 6.0s
 Steering Angle : 22.2
 Articulating Angle : 70.0



Murray Terminal BESS
 OSOM Vehicle
 Swept Path Assessment

DRAWN: RK / WC
 DATE: 09/04/2025
 DWG NO: 1188 S01B
 SCALE at A3: 1:750

Amber 03



Point 2. Location: Online Link

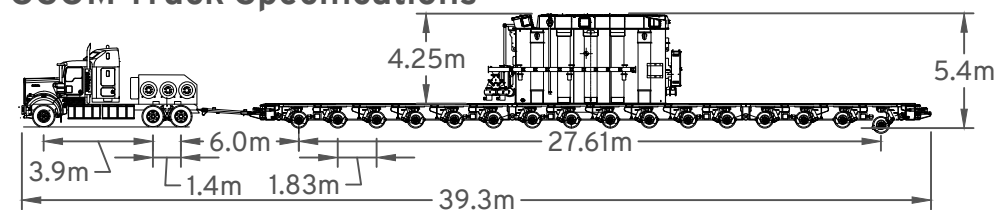
Vehicle Envelope

500mm Clearance

Reverse Manoeuvre

Load Outline

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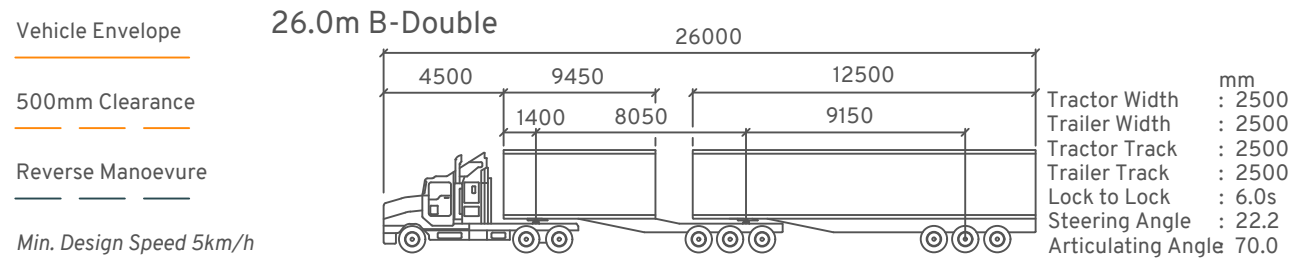
Murray Terminal BESS

OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 3. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

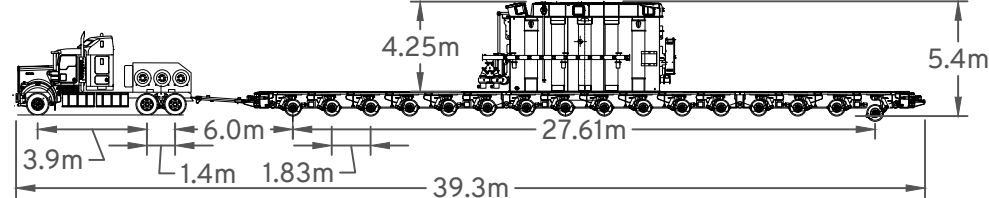
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DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 3. Location: Online Link

- Vehicle Envelope
- 500mm Clearance
- Reverse Manoeuvre
- Load Outline

OSOM Truck Specifications



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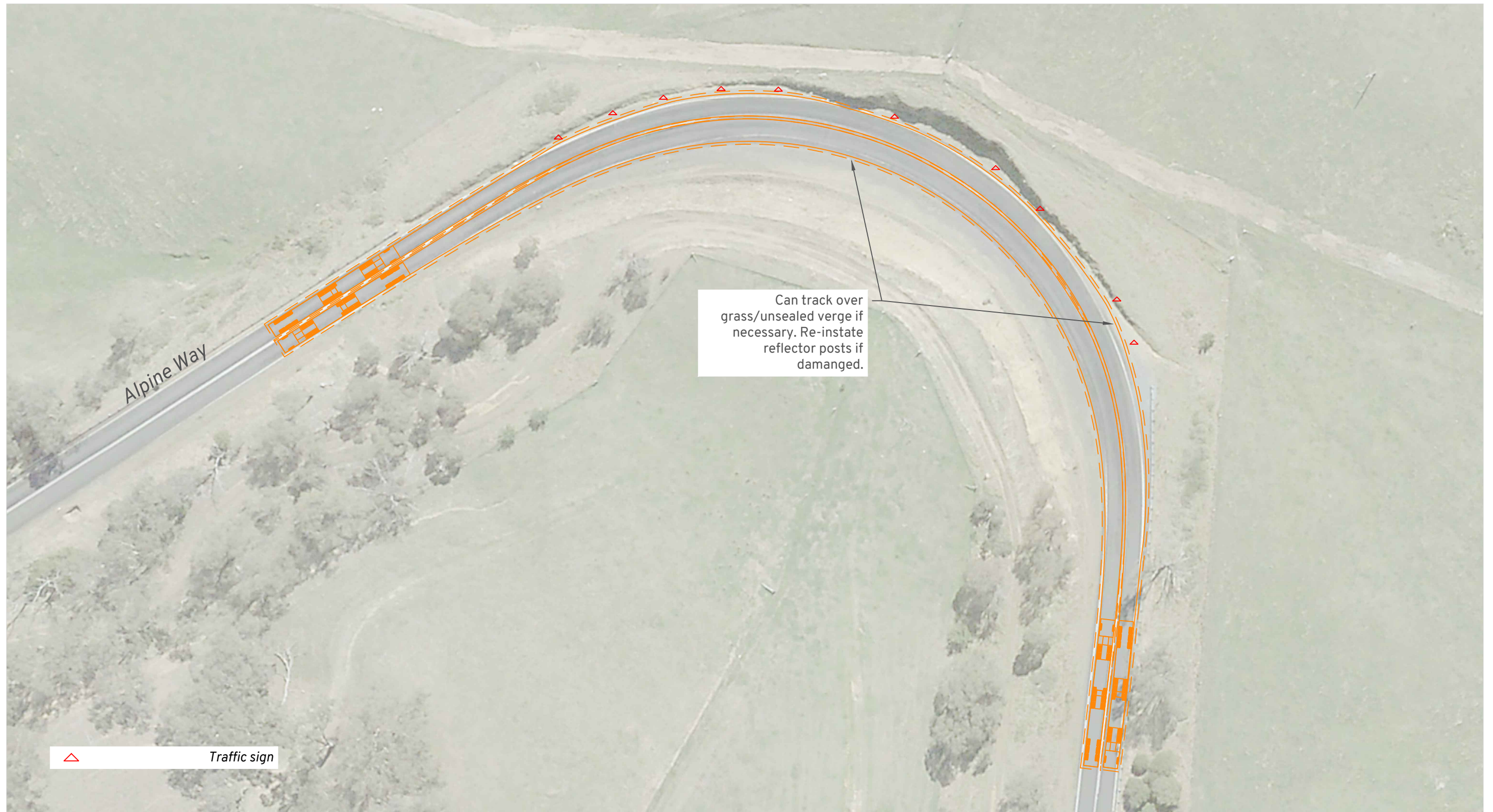
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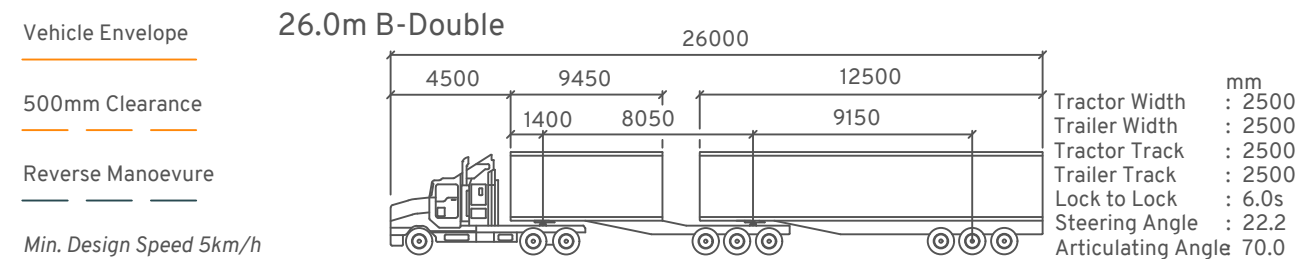


Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 4. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 4. Location: Online Link

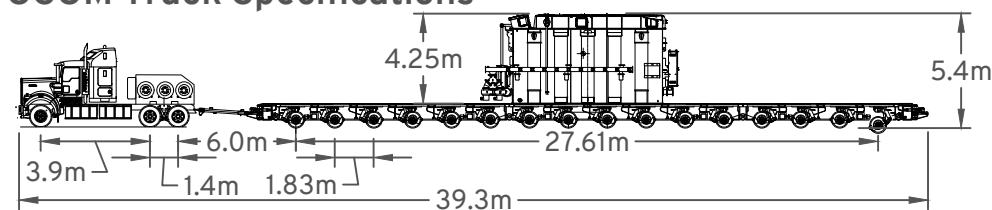
Vehicle Envelope

500mm Clearance

Reverse Manoeuvre

Load Outline

OSOM Truck Specifications



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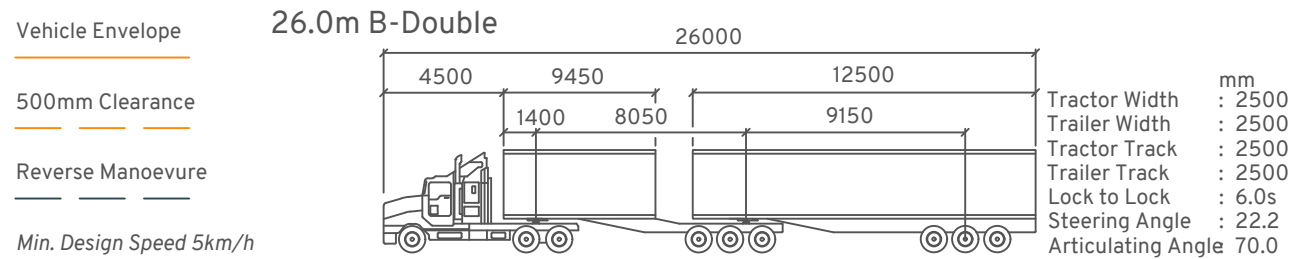
Murray Terminal BESS

OSOM Vehicle
Swept Path Assessment

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Point 5. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

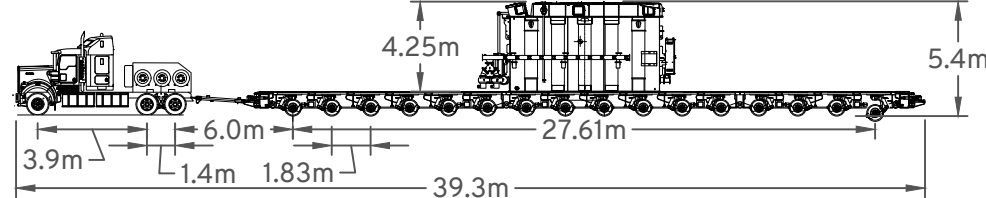
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SCALE at A3: 1:750



Point 5. Location: Online Link

- Vehicle Envelope
- 500mm Clearance
- Reverse Manoeuvre
- Load Outline

OSOM Truck Specifications



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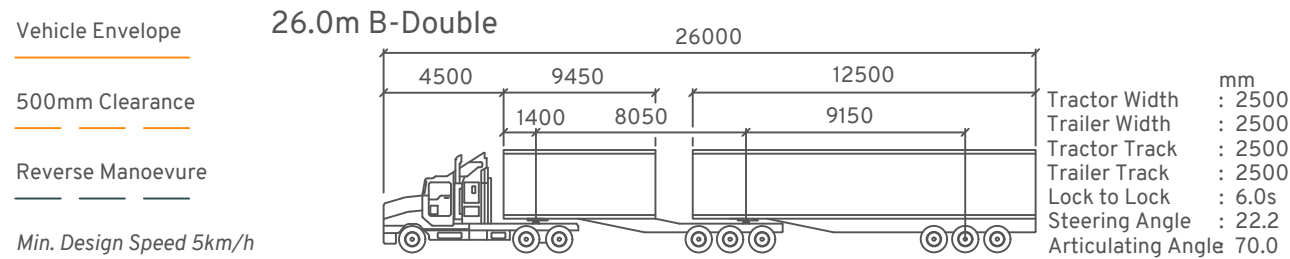
Murray Terminal BESS

OSOM Vehicle
Swept Path Assessment

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SCALE at A3: 1:750



Point 6. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

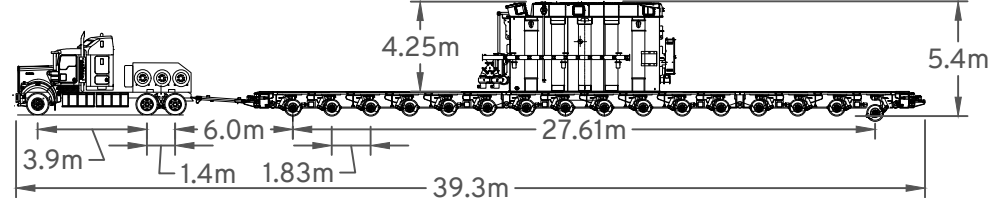
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DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 6. Location: Online Link

- Vehicle Envelope
- 500mm Clearance
- Reverse Manoeuvre
- Load Outline

OSOM Truck Specifications



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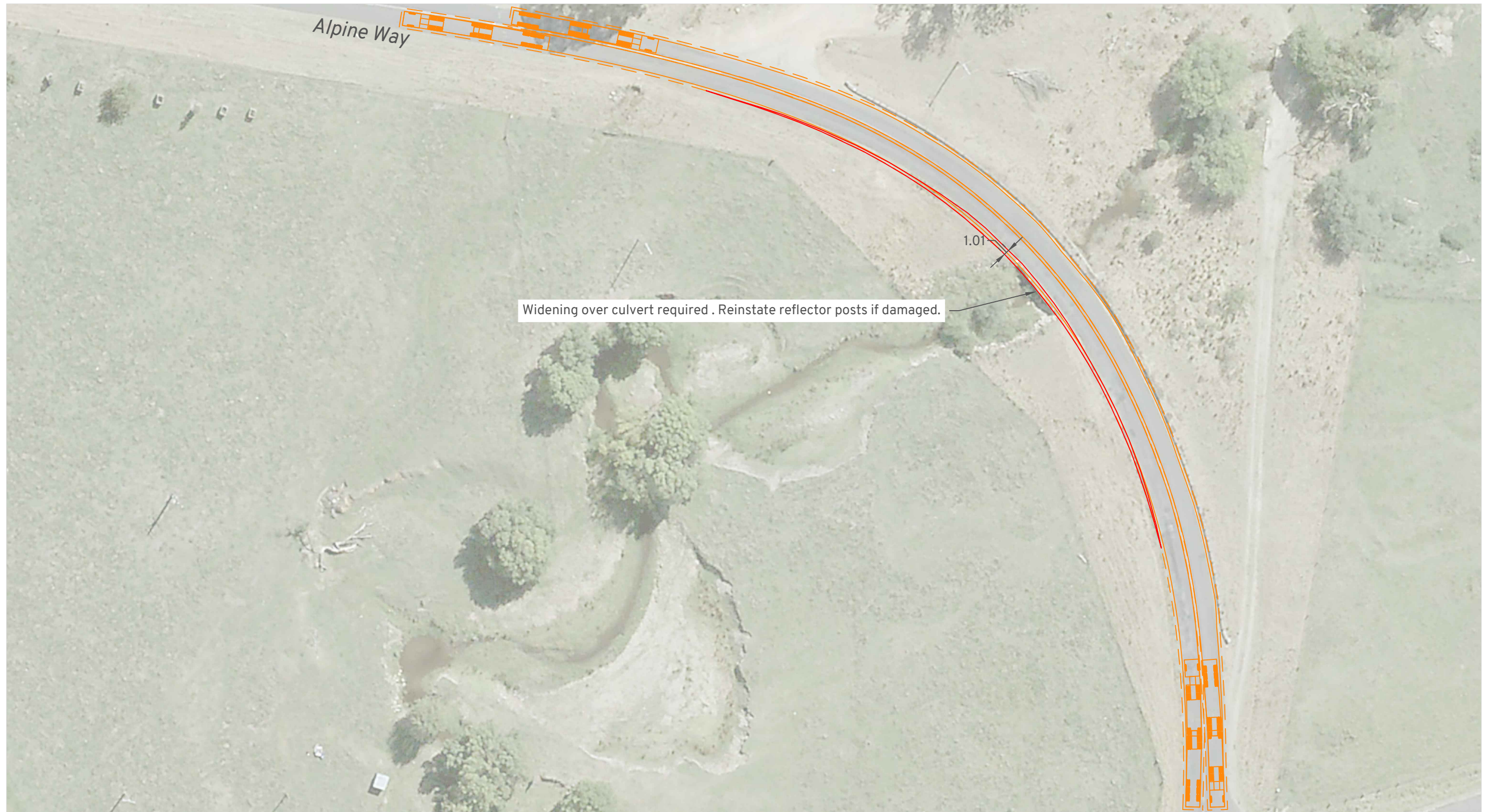
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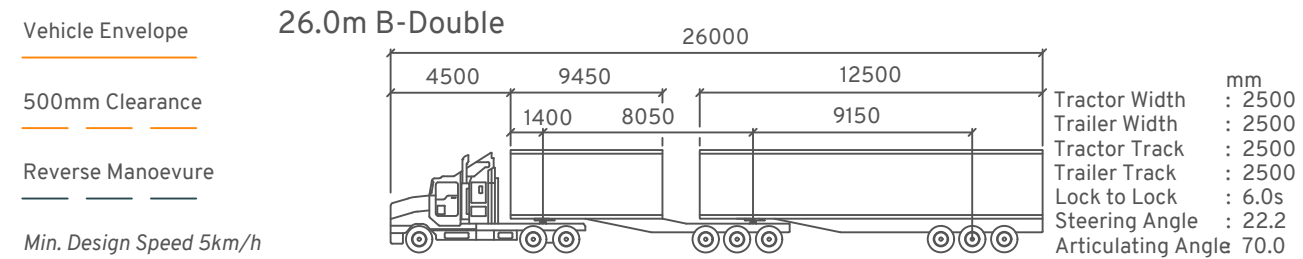


Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 7. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 7. Location: Online Link

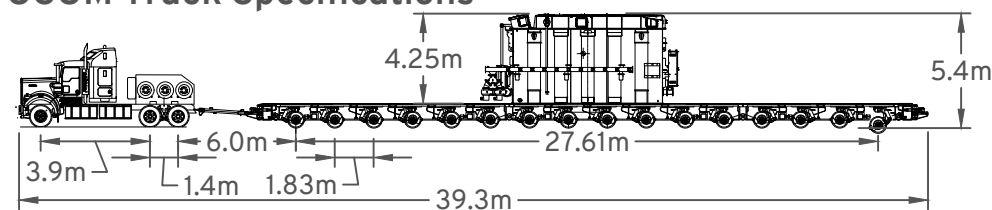
Vehicle Envelope

500mm Clearance

Reverse Manoeuvre

Load Outline

OSOM Truck Specifications



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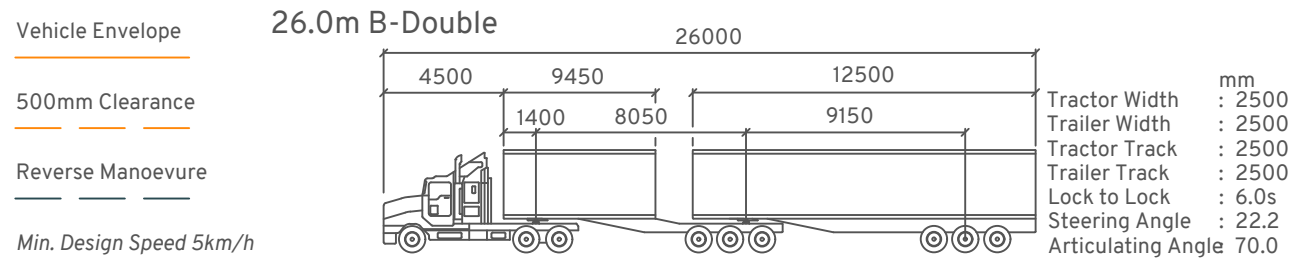
Murray Terminal BESS

OSOM Vehicle
Swept Path Assessment

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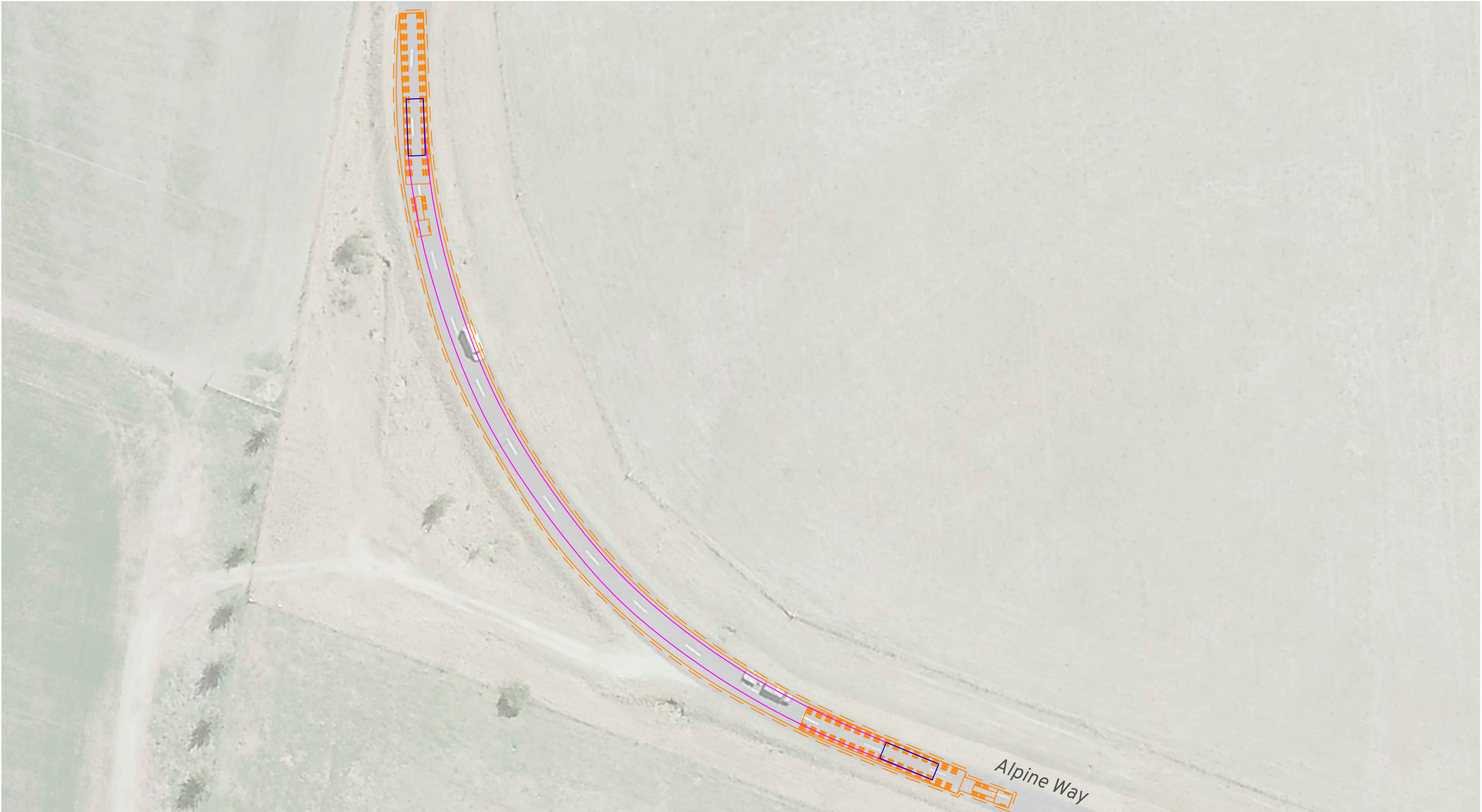


Point 8. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

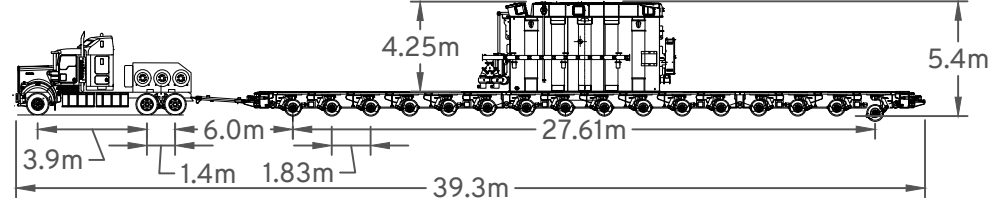
DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 8. Location: Online Link

- Vehicle Envelope
- 500mm Clearance
- Reverse Manoeuvre
- Load Outline

OSOM Truck Specifications



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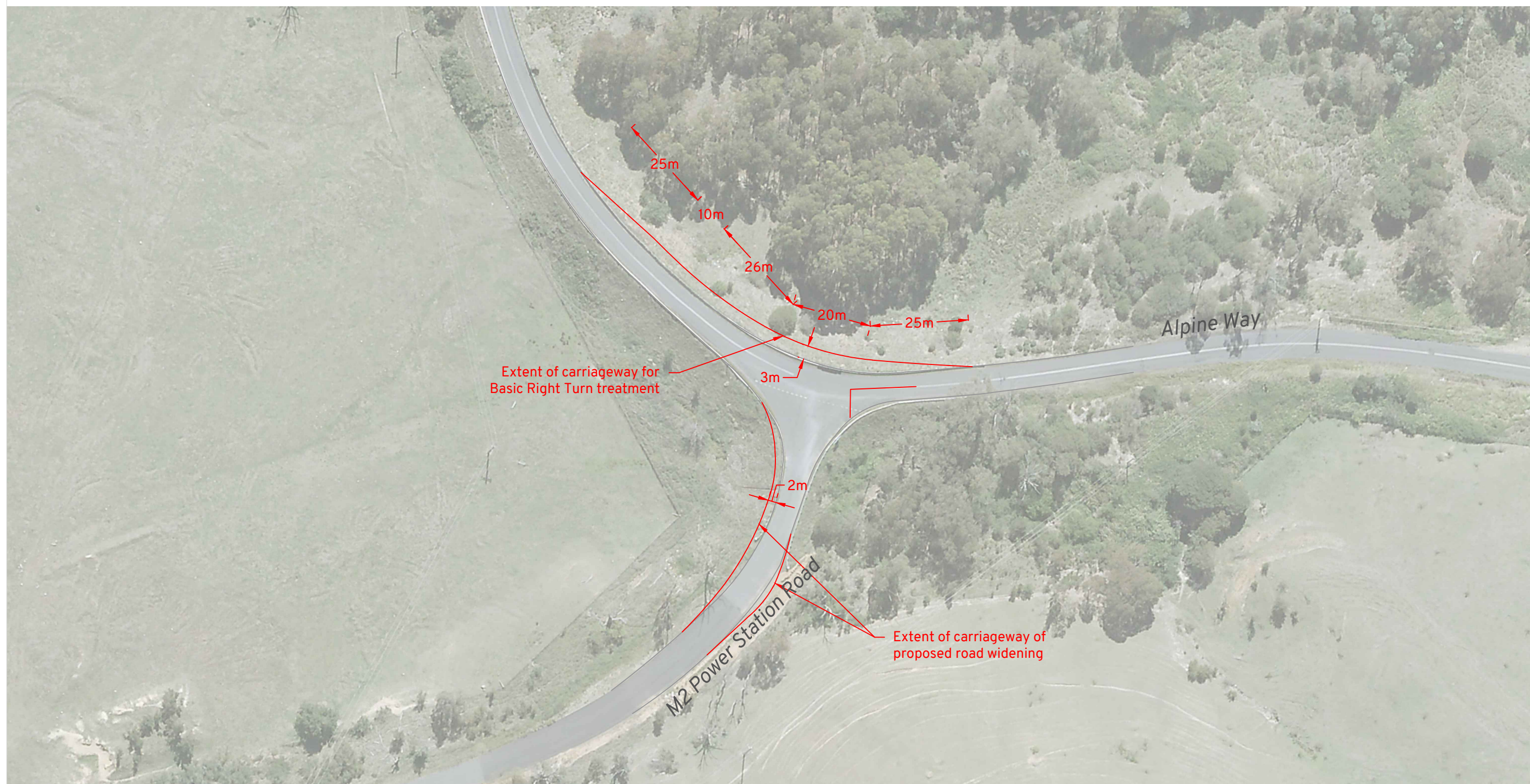
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DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 9. Location: Online Link

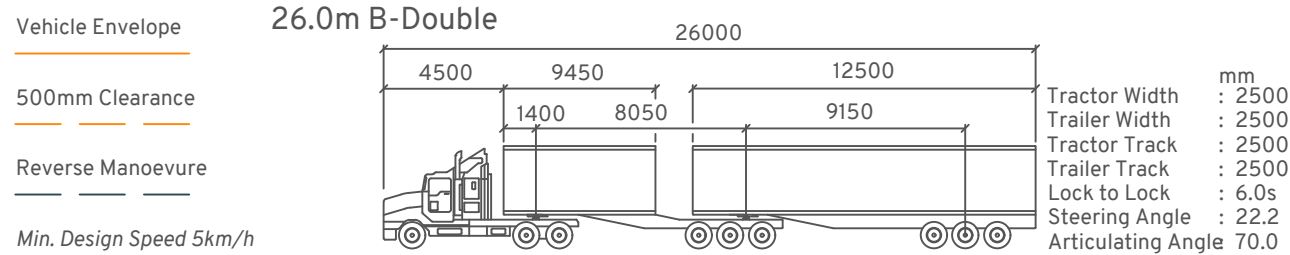


Murray Terminal BESS
 Alpine Way / M2 Power Station Road Intersection Upgrades
 Proposed Intersection Design

DRAWN: RK / WC
 DATE: 09/04/2025
 DWG NO: 1188 S01B
 SCALE at A3: 1:1000



Point 9. Location: Online Link



Murray Terminal BESS
OSOM Vehicle
Swept Path Assessment

DRAWN: RK / WC
DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:750



Point 9. Location: Online Link

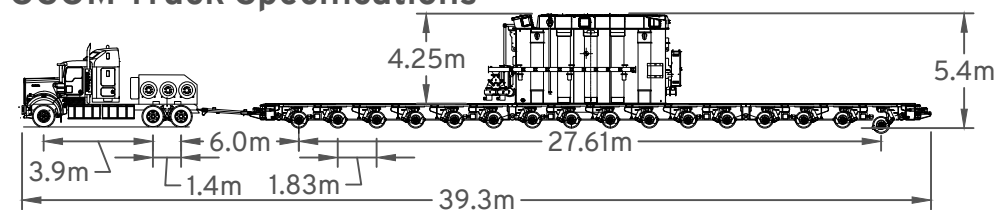
Vehicle Envelope

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Reverse Manoeuvre

Load Outline

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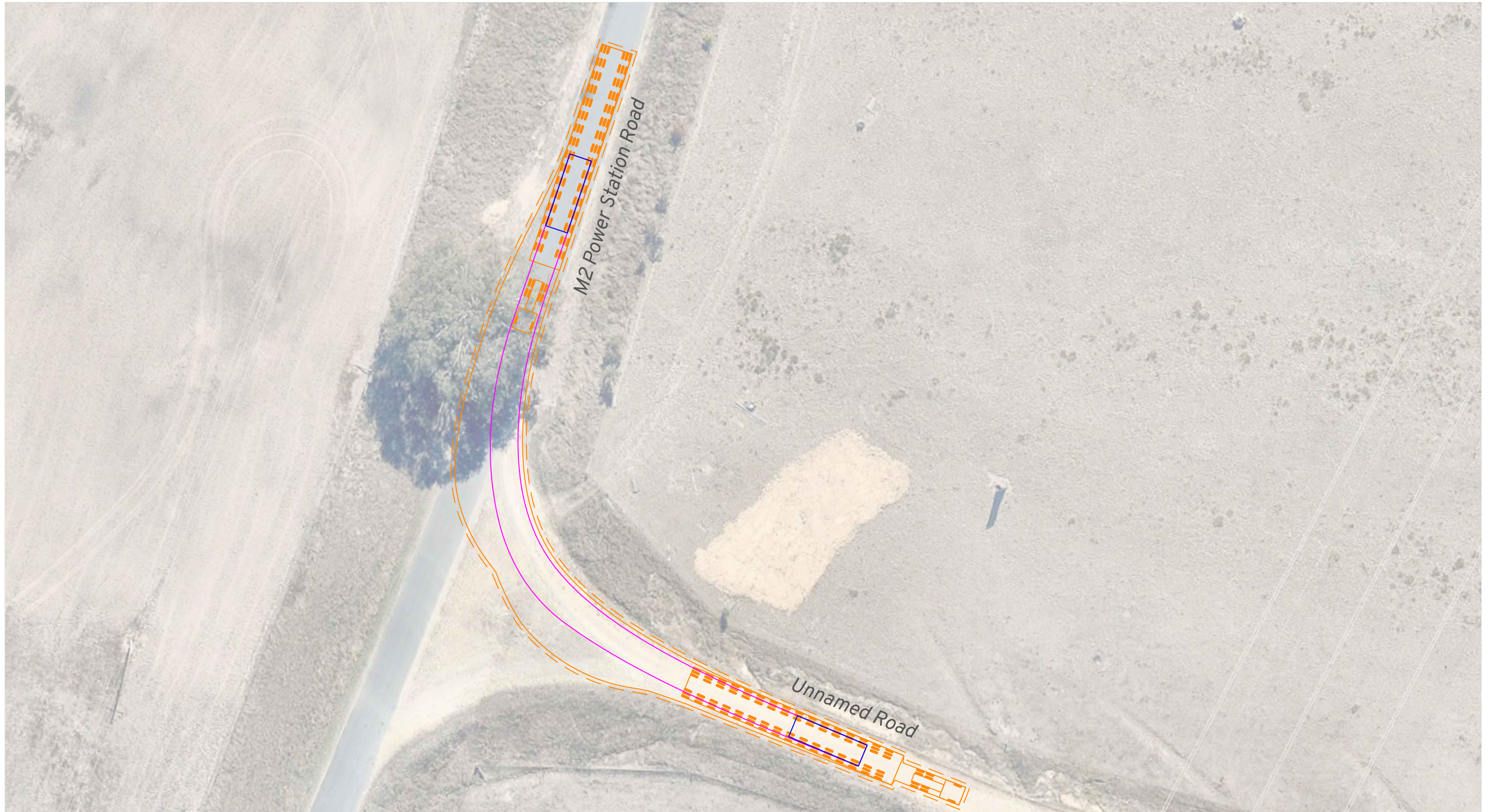
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Point 10. Location: Online Link

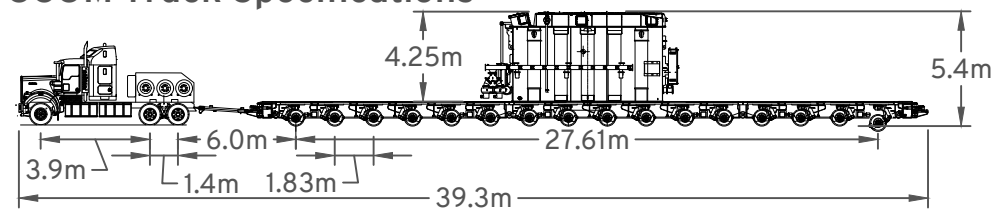
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OSOM Vehicle

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DATE: 09/04/2025
DWG NO: 1188 S01B
SCALE at A3: 1:500