

Battery Energy Storage Site Design Guidance for FRS Checklist			
Ref Number	Guidance Description for Battery Energy Storage Design	Guidance Achieved	Notes
N/A	Confirmation that the Battery Storage System will comply to UL 9540A	Yes	Further documentation will be provided from the eventual supplier of the BESS, with up-to-date information on compliance with fire testing and control systems. The proposed development is intended to use a supplier / manufacturer is compliant with this code.
1	Secondary access / exit point for emergency vehicles has been provided giving consideration to prevailing wind conditions	Yes	2 x alternative access points provided, taking into account prevailing wind conditions
2	Provision of adequate water supply and firefighting infrastructure to allow safe and effective emergency response.	Yes	A 240,000l Water Tank has been provided at the entrance to the site. Water Tanks to be no closer than 10m from BESS.
3	Passing places to be provided on access route suitable for fire service vehicles	Yes	Passing places have been provided along all access routes.
4	Consideration to minimum spacing requirements between Battery Storage	Yes	Draft NFCC Guidance for Battery Energy Storage references to NFPA 855 (minimum spacing of 0.914m between adjacent BESS units). Adequate spacing for maintenance must be accounted for between BESS clusters with a spacing of 0.914m between BESS units within the Cluster. Chosen technology to comply with UL 9540A (or approved similar test) to demonstrate that a thermal event can be contained to the BESS of origin and ensure that propagation does not occur.
5	30m distance from BESS to Site Boundary achieved	No	The site has been designed with the intent to locate the majority of the BESS 30m from the Site Boundary, due to the existing constraints; a number of BESS units fall within 30m. Considering the proposed layout and the sites rural location we judge this to be a manageable risk.
6	30m distance from BESS to Occupied Buildings achieved	Yes	There are no BESS units within 30m of Occupied Buildings
7	Battery Storage not to be placed within 10m of any combustible vegetation.	Yes	There is no combustible vegetation within 10m of the BESS units.
8	Internal access must be suitable for the Fire Rescue Emergency vehicles.	Yes	Swept path analysis ensures the emergency vehicles have full access of the site; the following points (amongst others) have been considered during the design: 3.7m (min.) track width (design 4.5m), Pump Truck turning circle (design provides multiple circular loops, no dead ends and therefore no turning circle required), min. width (3.1m) of gateways (designed gates 6m), no dead ends exceeding 20m.
9	Provision of an annunciation panel to provide FRS with live, accurate information on safety systems and status of battery units	Yes	First Responder panels (referred to as Annunciation Panels in NFCC guidance) positioned at primary and emergency site entrances for each section of the site to ensure that they are accessible by FRS in event of a fire incident.

ROSSENDALE BESS SITE HAS BEEN DESIGNED IN CLOSE ACCORDANCE WITH THE RECOMMENDATIONS SET OUT BY THE FIRE CHIEF COUNCIL AND IN PARTICULAR WITH REFERENCE TO THE DOCUMENT 'GRID SCALE BATTERY ENERGY STORAGE SYSTEM PLANNING – GUIDANCE FOR FRS' THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THE CONSIDERATIONS AND COMPLIANCE OF THE DESIGN WITH THIS GUIDANCE.

THIS PLAN TO BE READ IN CONJUNCTION WITH THE PROPOSED SITE LAYOUT PLAN REF: CUB001-PL-03

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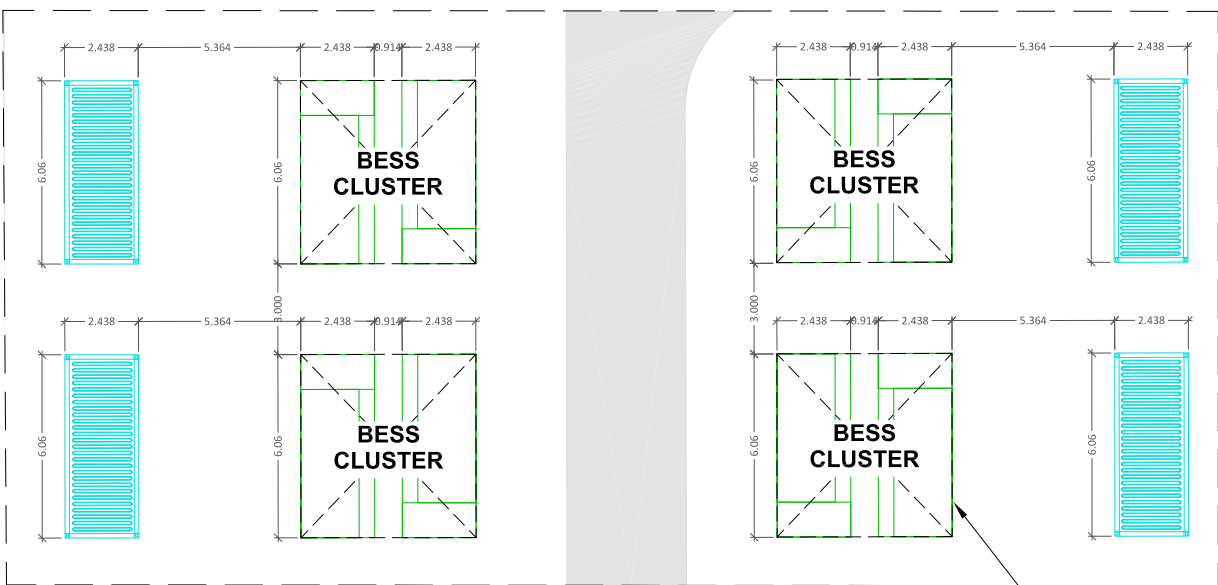
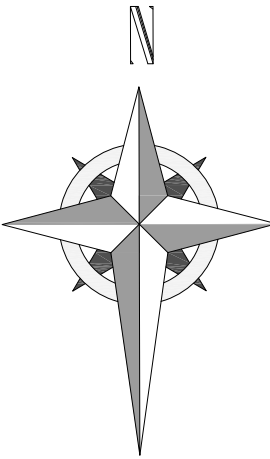
Scaled dimensions must not be taken from this drawing. All dimensions are to be confirmed on site prior to commencement of work.

Revisions:				
Revision	Date	Revision Notes	Drawn	Inspected
01	06.03.25	First Issue	OM	PR

LEGEND:

--- 30M OFFSET FROM SITE BOUNDARY ---

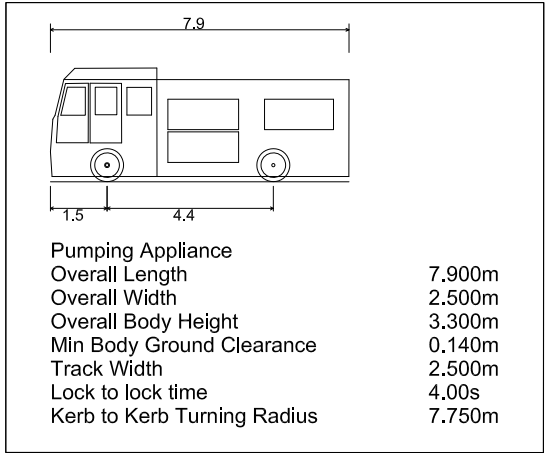
--- 10M OFFSET FROM VEGETATION ---



Enlarged view: Battery Storage Spacing

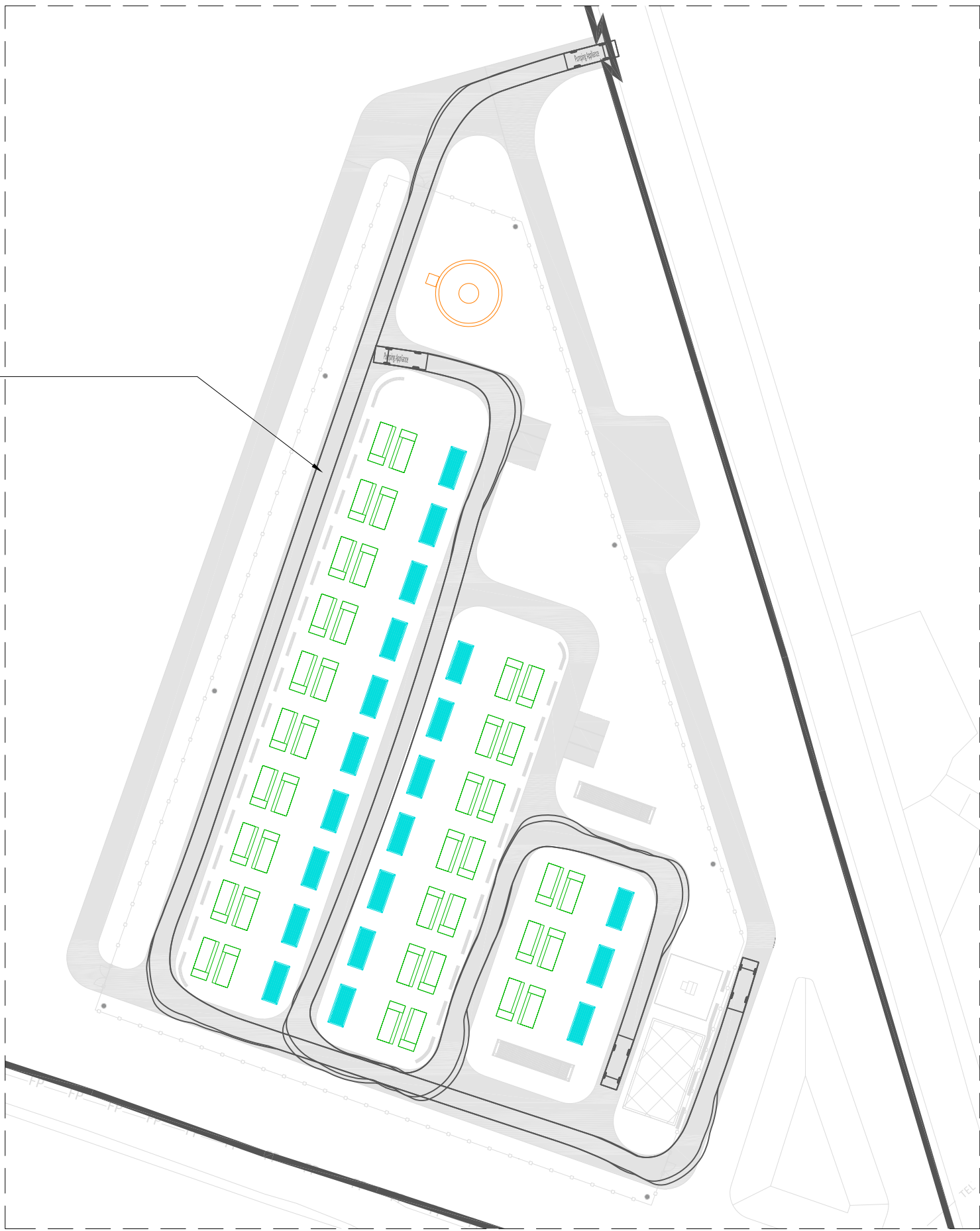
Scale: NTS

CLUSTER OF BESS SEPARATED AT MINIMUM 3M SPACING, TO MINIMISE RISK OF PROPAGATION AS A RESULT OF A THERMAL EVENT



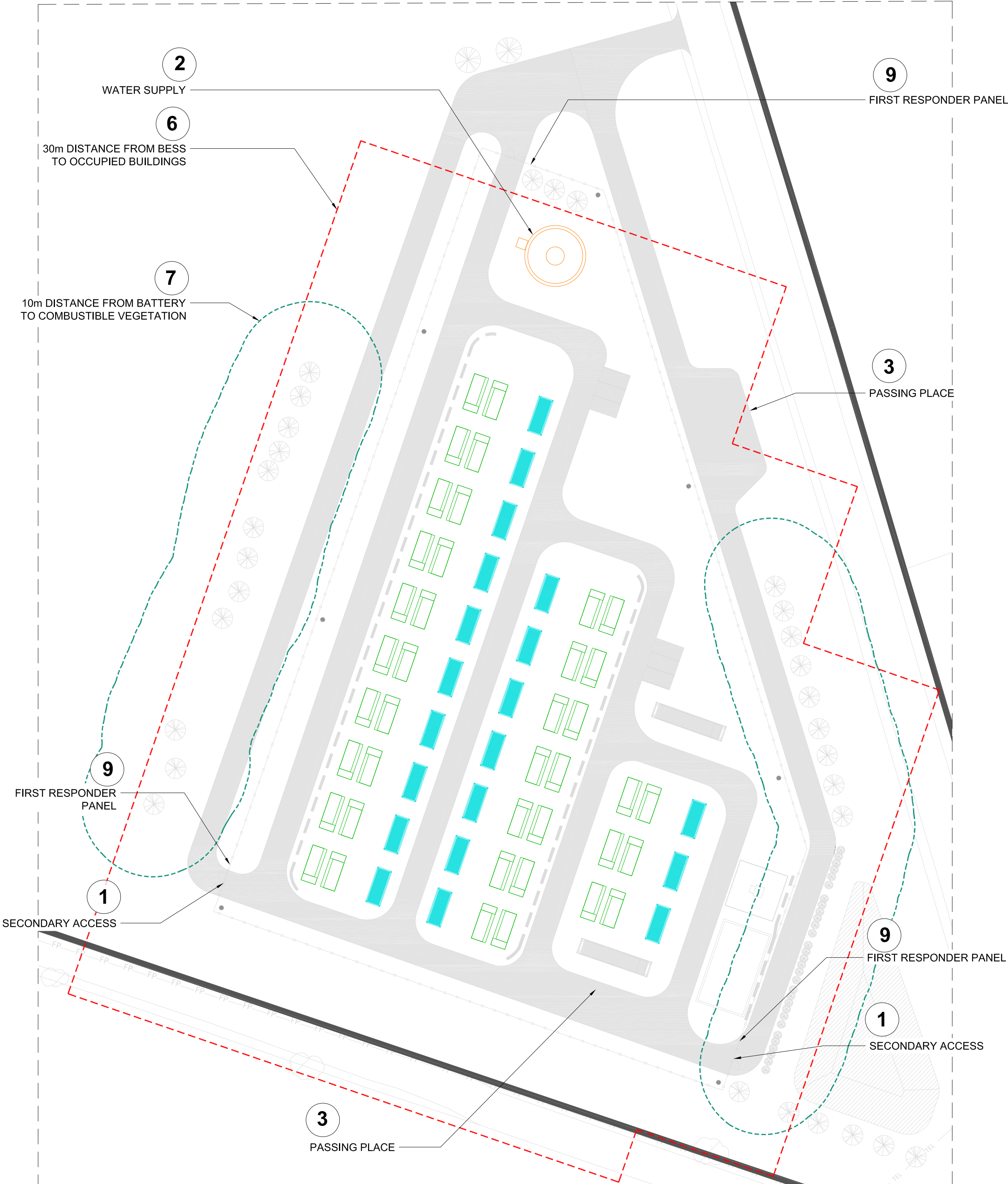
ACCESS AND TRACKS DESIGNED FOR FIRE RESCUE SERVICE. SWEEP PATH ANALYSIS CONDUCTED USING THE FOLLOWING VEHICLE SPEC:

8



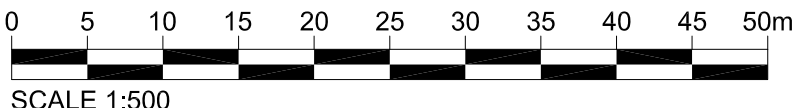
Enlarged view: Swept Path analysis for Emergency access

Scale: NTS



Fire Strategy Plan

Scale 1:500



Status: **PLANNING**

Project: **Rossendale BESS**
Rochdale Road, Turn Village

Client:



Drawn by:



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Drawing Title: **Rossendale BESS - Indicative Fire Strategy Plan**

Drawn: OM Checked: PR First Issued: 06.03.2025

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