



VRS - Risk Assessment - RRRAP

SCHEME SUMMARY AND RECOMMENDATIONS

Client, Project and Site Details

Client	ELG Planning	
Client Contact	Louise Wood	
Project Name	Ellen Road Farm 30MW BESS	
Road Name / Number	Ellen Road Farm, Bentgate St., Newhey, Rochdale	
Urban / Rural / Speed Limit	Mix / 70mph	
Chainage, Junction, etc.	Approx. 100m southwest of jct of A6193	
Risk Assessment Carried out by	Nigel Dougan	
Date of Risk Assessment	08/01/2025	
Details of Scheme / Site	This RRRAP has been developed as a requirement to support a planning application for a proposed Battery Energy Storage System (BESS) with associated access, landscaping and ancillary works. It is located adjacent to the M62 Jct 21 Northbound carriageway. The site is set back 29.7m from the edge of the carriageway and the compound level sits 6.5m higher than road level.	

Recommendations / Action Required

The site has been assessed in line with CD377 – the part of the DMRB suite of documents which provides guidance on the requirements for road restraint systems.

For the purpose of the assessment, we have ignored the presence of the existing vehicle restraint system which runs continuously along the verge of the M62 in the area of the site.

CD377 does not have a BESS listed as a specific hazard so we have assessed it with reference to clause 8.17 – Other Hazards Buildings and also other Hazards – Chemical or Fuel – within this section we have selected fuel as this most closely replicates the risks associated with a BESS.

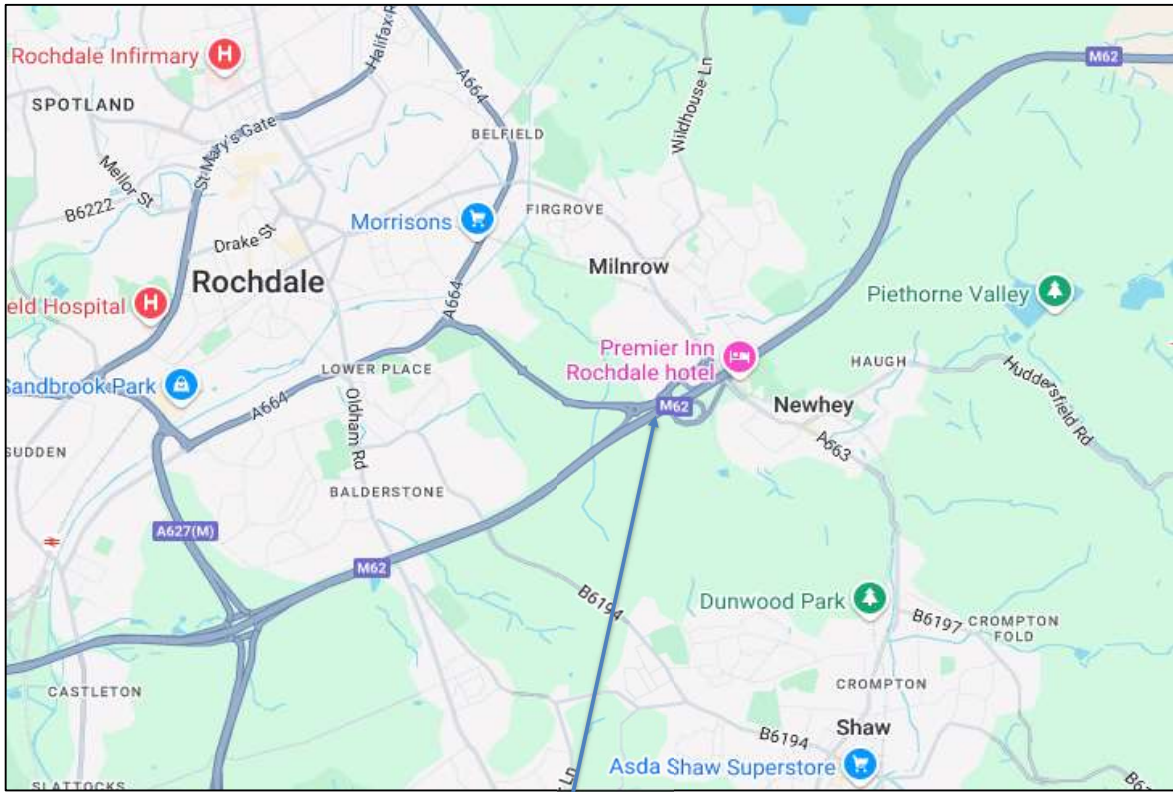
The output from this assessment is attached and concludes that a vehicle restraint system is not required in this situation. This will be due to a combination of factors including most importantly the setback of hazard.

Consideration was also given to the hazard presented by the BESS to the carriageway, both during construction and during operation. Once the site is constructed the hazard posed to the carriageway is minimal. Designated access roads are provided for traffic and the traffic movements within the site are in the area that is furthest away from the carriageway. During construction, consideration will need to be given to ensure that errant site vehicles or materials etc do not make their way towards the carriageway as they would roll down the embankment and potentially onto the carriageway.

Should layout change on site from that proposed, this assessment should be reviewed.



SITE LOCATION



Site Location





SITE PHOTOGRAPHS



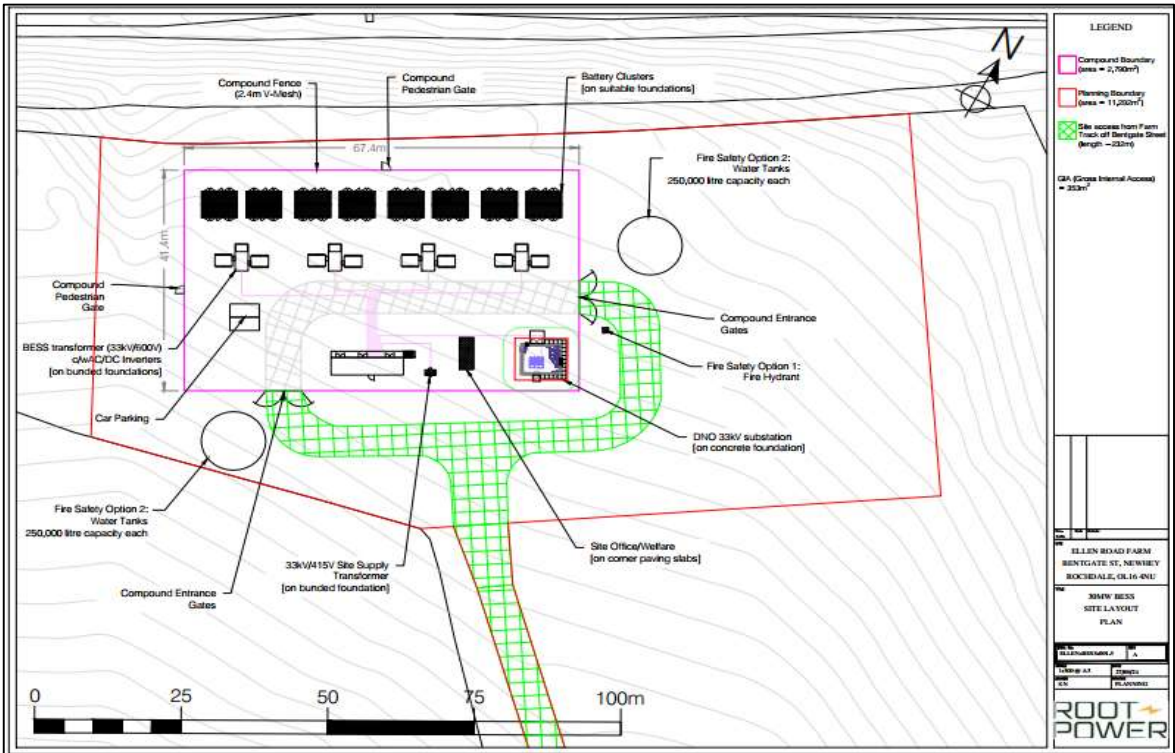
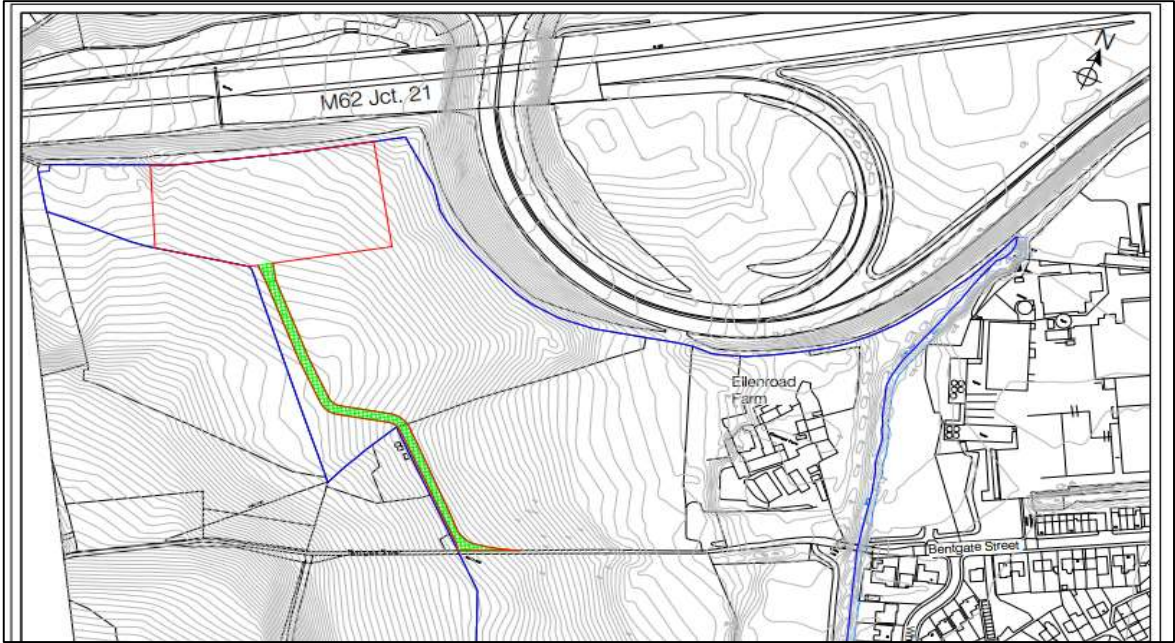
Photo 1 - looking southwest



Photo 2 -looking southwest



CLIENT DRAWING EXTRACTS





RRRAP DETAILS / EXTRACTS

Road Restraint Risk Assessment Process - (Version 3.3)

HomeRecords

Record: Ellen Road Farm, Rochd... | Ellen Road Farm, Roc... | Road Sub-type: D3M | Verge assessed: N/S Verge | 0.0 to 200.0

Record Status

Common Details

Barrier Option Costs

Hazards Overview

Collation & Reports

Restraint Summary

You are in | Record | Common Details

Common Details

Edit

Basic Details

Reason for Design

Section Details & Traffic Information

Scheme Duration & Barrier Costs

Details relating to particular section covered by assessment

Class and Standard		
Road classification	Motorway	
Road number	M62	
Road name	M62	
Road sub-type e.g. D2	D3M	
Road location e.g. Urban	Mix	
To current geometric standards?	Yes	
Location		
	From	To
Junction Name		
Junction No		
Marker Post		
Section label		
Chainage of section(m)	0.0	200.0
Section/Direction being assessed	Southwest bound	
Near side or offside verge, or wide central reserve being assessed	N/S Verge	
Does road have full-width (i.e. to standard) nearside hardshoulder or hardstrip?	Hard strip/shoulder 0.6m to 3m	
Are Environmental considerations likely to influence provision?	No	

Traffic Information

Permanent speed limit (mph)	70
Temporary Mandatory Speed Limit (HSR)	N/A
AADT (2-way unless motorway link or slip)	110000
% Large Vehicles	11.5
% Medium Vehicles	14.6
Model accident frequency (Nearside)	0.267
Model accident frequency (Offside)	

Road Restraint Risk Assessment Process - (Version 3.3)

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Hazards Overview

Collation & Reports

Restraint Summary

You are in | Record | Collation & Reports

Collation & Reports

Calculate Risk

Snapshot Report

VRS Report

Full Report

Accept Working Width/Length

Results 1 - 2 of 2 | Page 1 of 1

Risk	Hazard Details					Risk Levels		VRS Lengths (m)		VRS Details & Containment		
Output detailed results?	Id	Nature of Hazard	Start chainage	End chainage	Offset(s) from Pcb	Is risk without VRS acceptable?	Level of risk with optimum length VRS	Min Length VRS in advance	Min Length VRS beyond	VRS working width class	VRS	Parapet
☐	0600.0001	Rising at 92.9%	0.0	200.0	4.0	Yes						N/A
☐	8000.0001	Fuel	100.0	170.0	30.0	Yes						N/A

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