



SUNNICA ENERGY FARM

EN010106

Volume 8

8.111 Sunnica High-level Route Summary

Planning Act 2008

Infrastructure Planning (Examination Procedure) Rules 2010



Planning Act 2008


**The Infrastructure Planning
(Examination Procedure) Rules 2010**

**Sunnica Energy Farm
Development Consent Order 2023**

8.111 Sunnica High-level Route Summary

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Rev 00	13 March 2023	Deadline 8 Submission



AECOM

AIL High Level Route Summary Sunnica Project

REV	DATE	REASON	ISSUED BY
C	07 MARCH 2023	AMMENDED AS PER COMMENTS	AC
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A	03 MARCH 2023	AMMENDED AS PER COMMENTS	AC
0	01 MARCH 2023	FIRST ISSUE	AC

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All the way with Allelys.

Together, we move it all. We believe any challenge, no matter how big or small, is better tackled as a team. We ALL have a part to play and that starts with getting to know each other better.

Allelys provides heavy lift, specialist transport, heavy haulage and logistics solutions to our diverse and innovative customers. We face together all the unique projects with a creative solution, listening from the start and communication at every opportunity.

Our non-defeatist attitude and agile approach means you will be partnering with a team that never gives up. Even in the face of the toughest challenges we aim for joint success.



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All the right
expertise in All
the right areas.

Our technical
knowhow
and **experience**

Heavy Lift &
Specialist
Transport



Industrial
Plant Services



Heavy Haulage



General
Haulage



Specialist
Equipment
Hire



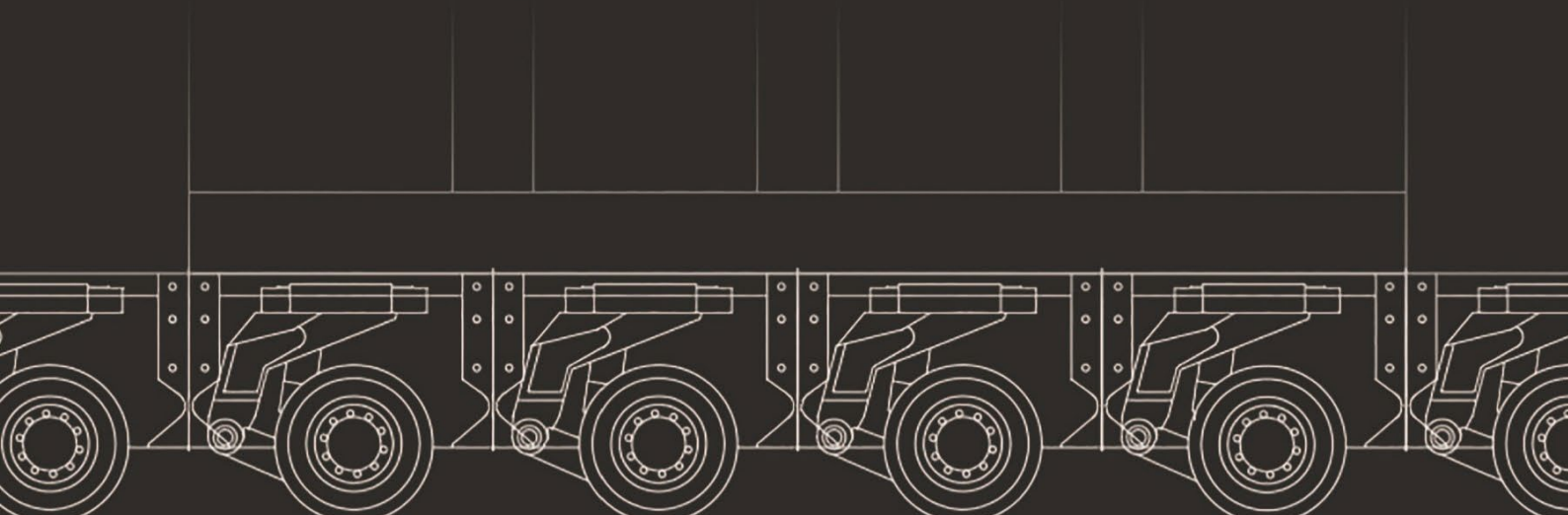
Crane Hire



Pallet Haulage



Warehousing
& Storage



SECTORS

Whatever field
you're in, we
cover them **All.**



1. Executive Summary

Allelys have been asked by Aecom to provide a complete high level route summary for the transport of a 170/85/85 MVA Transformer to, Sunnica East Site A, Sunnica East Site B and Sunnica West Site A. and a 200MVar Shunt Reactor to Sunnica East B.

The objective of this document is to clearly outline a workable delivery concept for the enclosed cargo whilst adhering to UK legislation and equipment capabilities. Our recommendations are based on a wealth of knowledge and experience however, are subject to relevant permissions at the time of delivery.



2. Definitions & Terminology

2.1 Definition of Abnormal Indivisible Load (AIL)

The Department of Transport state that the strict definition of an AIL refers to a load which cannot, without undue expense or risk of damage, be divided into two or more loads for the purpose of carriage on roads which, owing to its dimensions or weight, cannot be carried on a vehicle which complies in all respect with the 'standard vehicle regulations' these are:

- The Road Vehicles (Construction and Use) Regulations 1986 (as amended)
- The Road Vehicles (Authorised Weight) Regulations 1998 (as amended)
- The Road Vehicles Lighting Regulations 1989 (as amended)

All equipment should be stripped of their ancillaries before they are transported. The HA will only accept that further dismantling is not required where it cannot be economically achieved due to the requirement for its construction within factory environments or where extremely high tolerances have to be maintained.

2.2 Legislation

Conventional heavy goods vehicles have an operating weight limit of 44 tonnes. The category known as (AIL) covers those vehicles where the gross weight exceeds 44 tonnes. An Abnormal Load is defined as that which cannot be carried under Construction and Use(C&U) Regulations. Items which, when loaded on the load carrying vehicle exceed the weights encompassed by the C&U Regulations, but do not exceed Special Order Permission Limits are governed by Special Types General Order (STGO) categories 1 to 3 depending on size.

Where dimensions exceed 6100mm in width, 30000mm in rigid length or exceeds 150 tonnes gross weight, a Special Order (SO) permit from the National Highways is required. Special Order category AIL movements are authorized by the National Highways Abnormal Loads team, which are based in Birmingham.

3. Cargo Summary

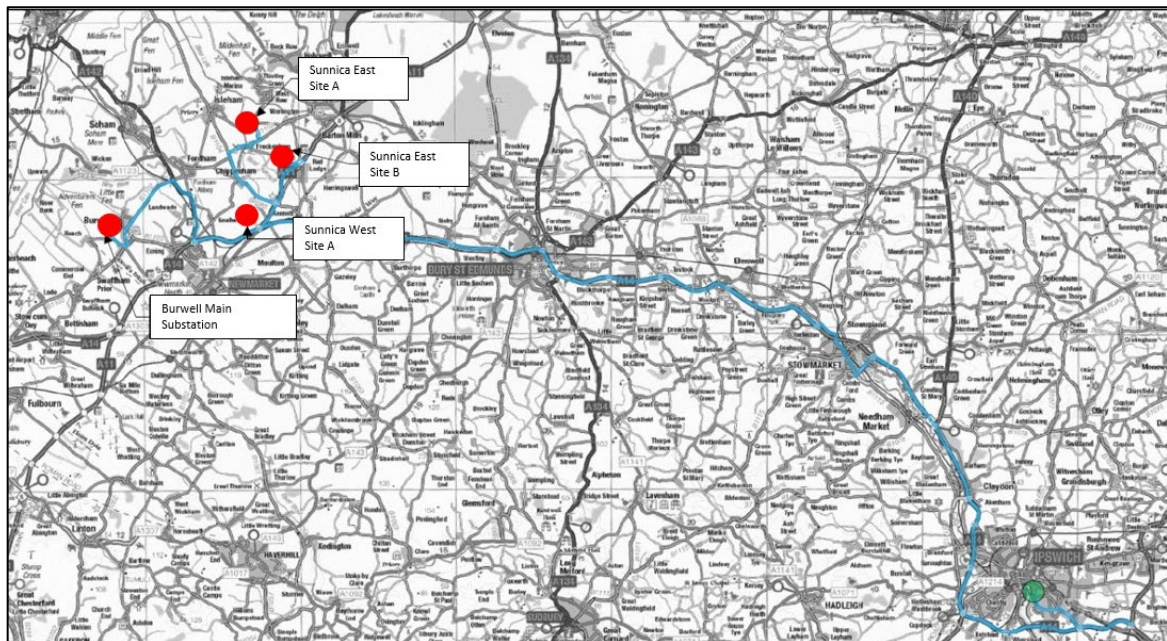
The below information has been supplied by Aecom.

Description	Qty	Dimensions (M)	Weight (TE)
170/85/85 MVA Transformer	3	12 long 4.5 wide and 5 high	150 tonnes
200MVar Shunt Reactor	1	12 long 4.5 wide and 5 high	150 tonnes

4. Locations

4.1 Delivery Address

Location – Sunnica East Sites A and B and Sunnica West A:



Sunnica East Sites A and B and Sunnica West Site A are 5.9 miles and 6 miles North East of Burwell Substation respectively. All sites are again accessed via the A14 Trunk Road and local B/C – Class roads.

5. Details

Site: Sunnica East Site A and B & Sunnica West Site A	
Existing site or proposed new site?	Sunnica East Site A and B and Sunnica West Site A are proposed sites.
Route inspection and assessment recently undertaken?	<p>Yes, Allelys have recently cleared the route for a 200 Tonne Transformer to Burwell Main.</p> <p>A check of the route to Sunnica East Sites A and B and Sunnica West Site A has been undertaken by Allelys, but no structural assessments have been carried out. Allelys has reviewed the routes presented by AECOM in Appendix A and found these to be sufficient for all three sites.</p>
Proposed Port of Delivery (>150Te Gross)	Ipswich
Proposed Cargo weight and dimensions?	<p>150 Tonne</p> <p>12m x 4.5m x 5.0m (L x W x H)</p>
Typical trailer used for works?	16 axle Girder Frame Trailer
Expected delivery date?	2024
Last recorded delivery?	Allelys in 2020 transported a 200 Tonne transformer on this route using 28 Axle Girder Frame Trailer.
Is there a known abnormal loads route?	Yes, to Burwell Main.
Suggested route based on investigations:	<p>IPSWICH TO SUNNICA WEST SITE A:</p> <p>Exit ABP Ipswich via gate 1 and turn onto Cliff Road.</p> <p>Turn right onto Holy Wells Road / Landsteer Road</p> <p>Turn right onto A1189 Nacton Road</p> <p>Turn left onto A14 at Nacton Interchange (J57) and travel eastbound initially, exiting at J58 (A14/A12) to avoid seven hills roundabout structure, then rejoin the A14 Westbound for 53 miles to J37 at Exning (A14/A142).</p> <p><i>Note 1 – On the A14, Orwell Bridge, Police may require a rolling road block to ensure the AIL is the only traffic on the structure.</i></p>

	<p>Turn left on to La Hogue Road</p> <p>Turn left onto site</p>
	<p>IPSWICH TO SUNNICA East Site B:</p> <p>Exit ABP Ipswich via gate 1 and turn onto Cliff Road.</p> <p>Turn right onto Holy Wells Road / Landsteer Road</p> <p>Turn right onto A1189 Nacton Road</p> <p>Turn left onto A14 at Nacton Interchange (J57) and travel eastbound initially, exiting at J58 (A14/A12) to avoid seven hills roundabout structure, then rejoin the A14 Westbound for 53 miles to J37 at Exning (A14/A142).</p> <p><i>Note 1 – On the A14, Orwell Bridge, Police may require a rolling road block to ensure the AIL is the only traffic on the structure.</i></p> <p>Turn left onto Elms Road</p> <p>Turn right into site</p>
	<p>IPSWICH TO SUNNICA EAST Site A:</p> <p>Exit ABP Ipswich via gate 1 and turn onto Cliff Road.</p> <p>Turn right onto Holy Wells Road / Landsteer Road</p> <p>Turn right onto A1189 Nacton Road</p> <p>Turn left onto A14 at Nacton Interchange (J57) and travel eastbound initially, exiting at J58 (A14/A12) to avoid seven hills roundabout structure, then re-join the A14 Westbound for 53 miles to J37 at Exning (A14/A142).</p> <p><i>Note 1 – On the A14, Orwell Bridge, Police may require a rolling road block to ensure the AIL is the only traffic on the structure.</i></p> <p><i>Note 2 – It may be necessary to exit and re-join the A14 at various junctions, to avoid structures.</i></p>

	<p>From A14 Westbound to J50, turn left onto A1120.</p> <p>Turn right A1308 Needham Road</p> <p>Continue on A1308 via Stowmarket</p> <p>Re-join A14 at J49 and continue on A14</p> <p>Use J37 to join the A14 Eastbound</p> <p><i>Note 3 – When AIL reaches A14 / A142 (J37), a special manoeuvre will be required:</i></p> <ul style="list-style-type: none">• <i>The central reservation will need to be removed</i>• <i>The AIL will cross onto the wrong carriageway</i>• <i>Tractor unit(s) will be removed and turned around</i>• <i>AIL will proceed Eastbound on A14</i> <p>Continue on A14 Eastbound to J38.</p> <p>Exit a J38 onto A11 Northbound.</p> <p>Turn left onto B1085 / High Street</p> <p>Turn right onto B1104</p> <p>Bear right onto B1102</p> <p>Turn left onto Isleham Road</p> <p>Turn left onto Beck Road</p> <p>Turn right onto site.</p>
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6. Conclusion

Sunnica West Site A

The route from Ipswich Docks to Sunnica East is considered feasible. To facilitate this delivery various street furniture and vegetation will require removal. See below summary:

- A11 / La Hogue Road – Oversail public land
- Sunnica West Site A entrance – Vegetation to be cleared

Note - Please see drawings in Appendix A for more detail.

The removal of the central reservation is now standard practice for the delivery of abnormal loads to this area and has been completed on previous AIL deliveries without incident. A 12 week lead time will be required to facilitate these works.

Sunnica East Site A

The route from Ipswich Docks to Sunnica East is considered feasible. To facilitate this delivery various street furniture will require removal, and a fence may require realignment. See below summary:

- A11 / B1085 Junction – Oversail public land
- B1085 – Oversail public land
- B1085 / Parkside / High Street – Oversail public land
- B1102 / Fordham Road – No works required
- B1102 / Mildenhall Road – Existing gate to be realigned or temporarily removed
- B1102 / Mildenhall Road / Unnammed Road – Road signs to be temporarily removed and some vegetation to be cleared
- Sunnica East Site A entrance – Hedge to be removed

Note - Please see drawings in Appendix A for more detail

Sunnica East Site B

The route from Ipswich Docks to Sunnica East is considered feasible. To facilitate this delivery various street furniture and vegetation will require removal. See below summary:

- A11 / Elms Road Junction – Oversail public land
- Sunnica East Site B entrance – Vegetation to be cleared

Note - Please see drawings in Appendix A for more detail.



HSEQ

We put **health** and **safety** first.

Health, safety, environment and quality are paramount to Allelys and are at the heart of our business.

Allelys are committed to providing a safe and healthy working environment for our employees and every person that interacts with the organisation. We recognise that the services we provide and the sectors we work in present challenges in terms of managing risk, but we are committed to protecting our people, environment and assets on every project we undertake.

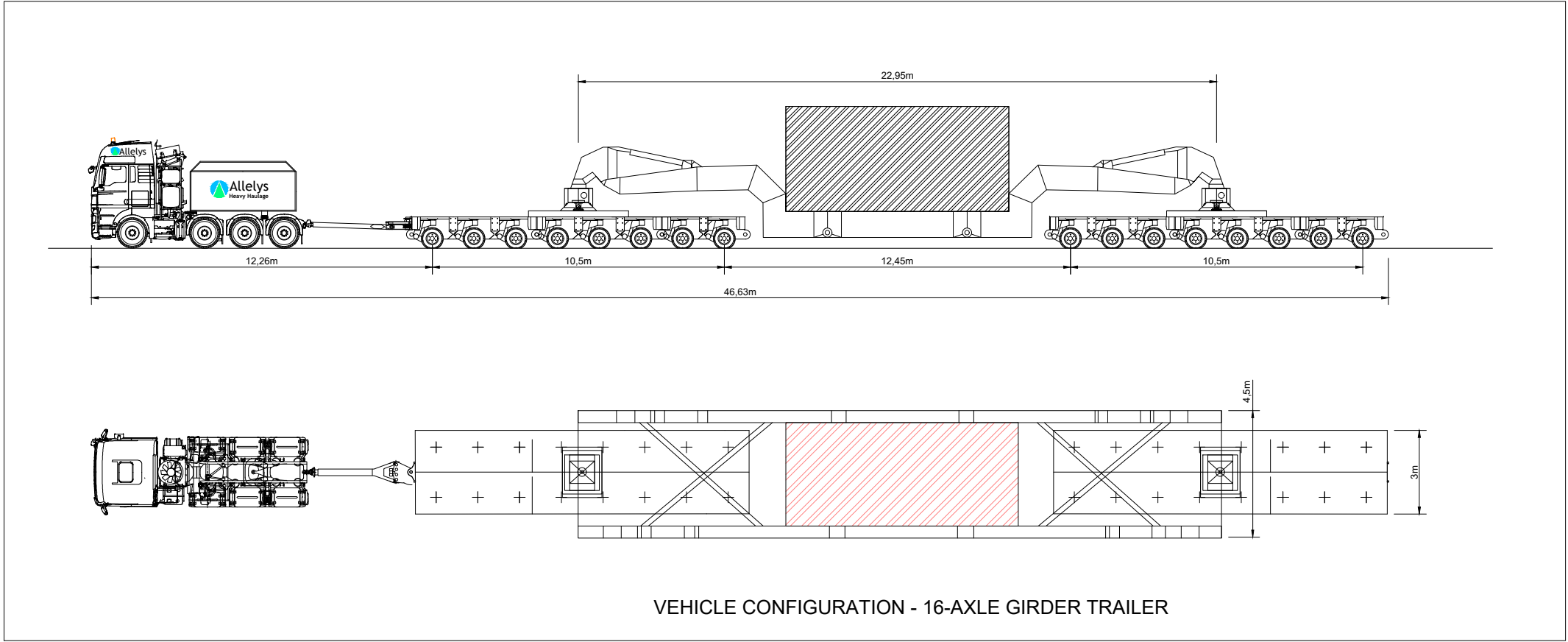
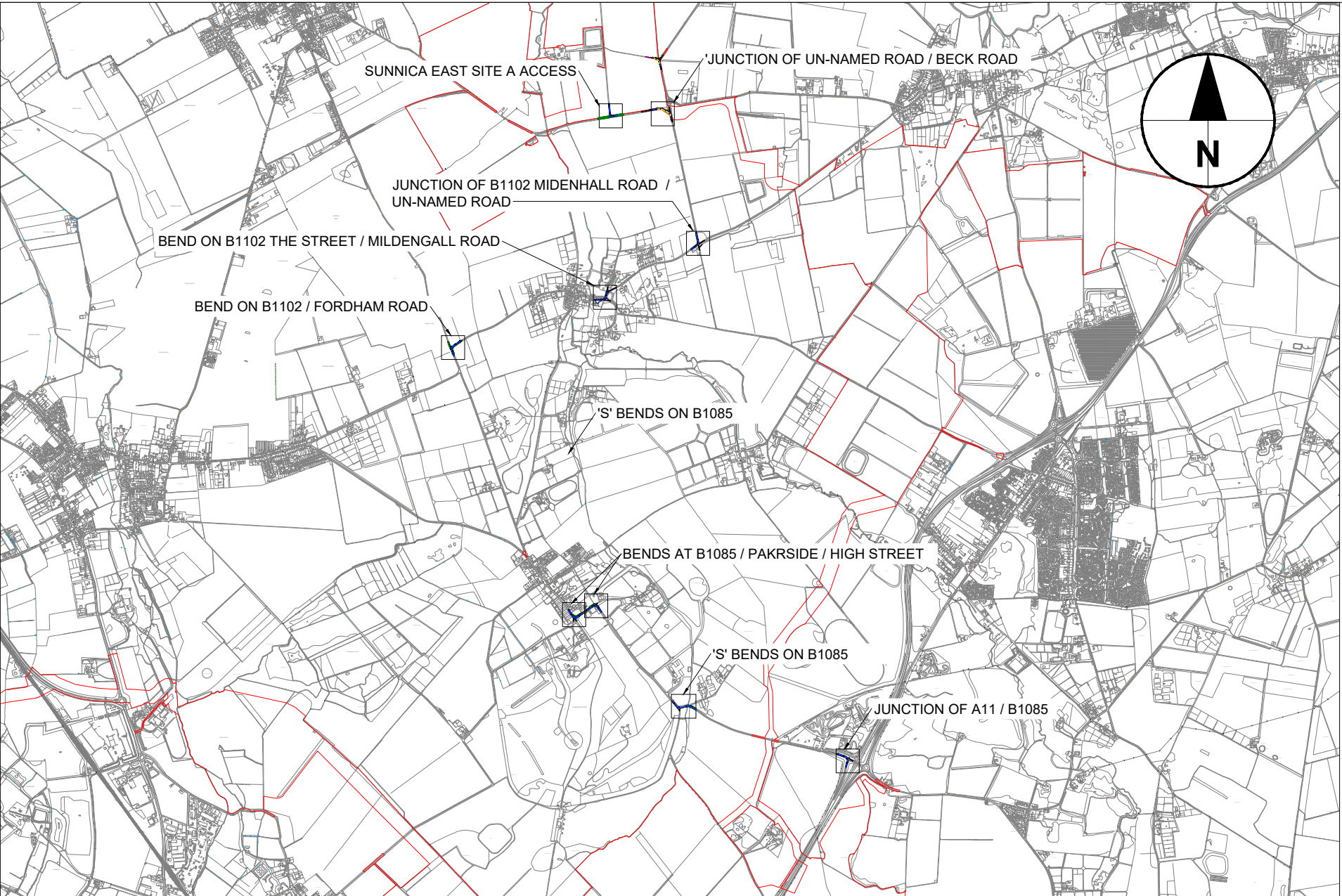
Our safety performance is critical to the success of our business and our projects and therefore it's essential that we continuously identify, assess and act upon any areas that can be improved. Any areas

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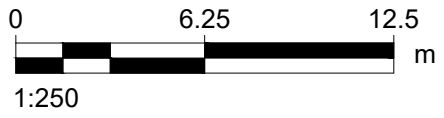
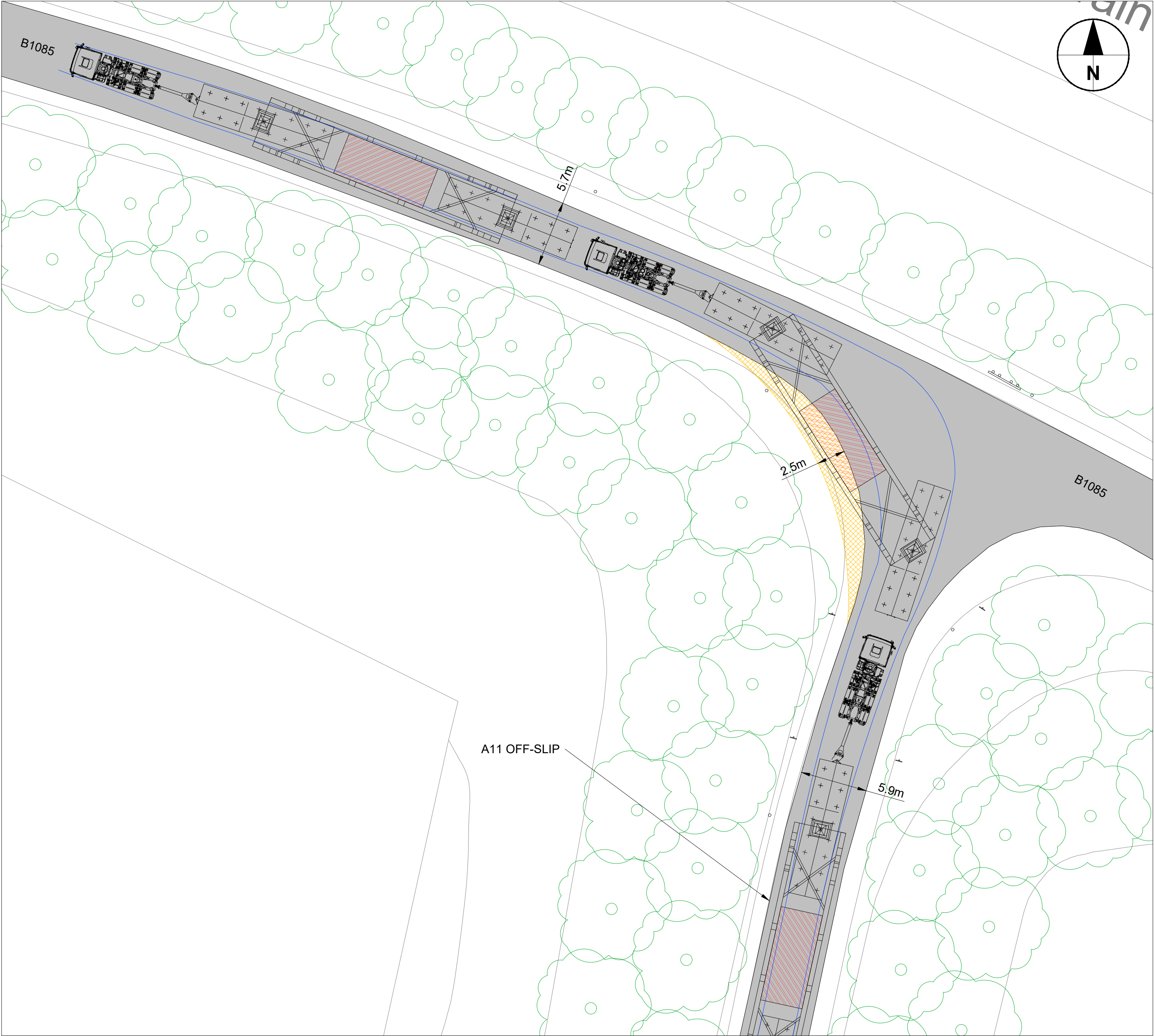
Quality is a key component of our management system and customer care is paramount to us. We strive for 100% satisfaction and encourage our customers to get in touch with any feedback they would like to provide. If there are any instances where it's believed that a good quality service has not been delivered, we have procedures in place to investigate and act upon any necessary changes.

Appendix A - Drawings

Rev: _



KEY:	
	EXISTING ROAD
	APPROXIMATE OUTER WHEEL TRACK OF TRACTOR UNIT / TRAILER BOGEYS (REFER NOTES)
	OVERSAIL OF TRAILER GIRDER SECTION
	PROPOSED SITE ENTRANCE
	EXISTING TREES / VEGETATION
	EXISTING HEDGES / VEGETATION
	EXISTING ROAD SIGN
	EXISTING STREET FURNITURE (LAMP POST, BOLLARD, EP, TP, etc.)
	SITE BOUNDARY



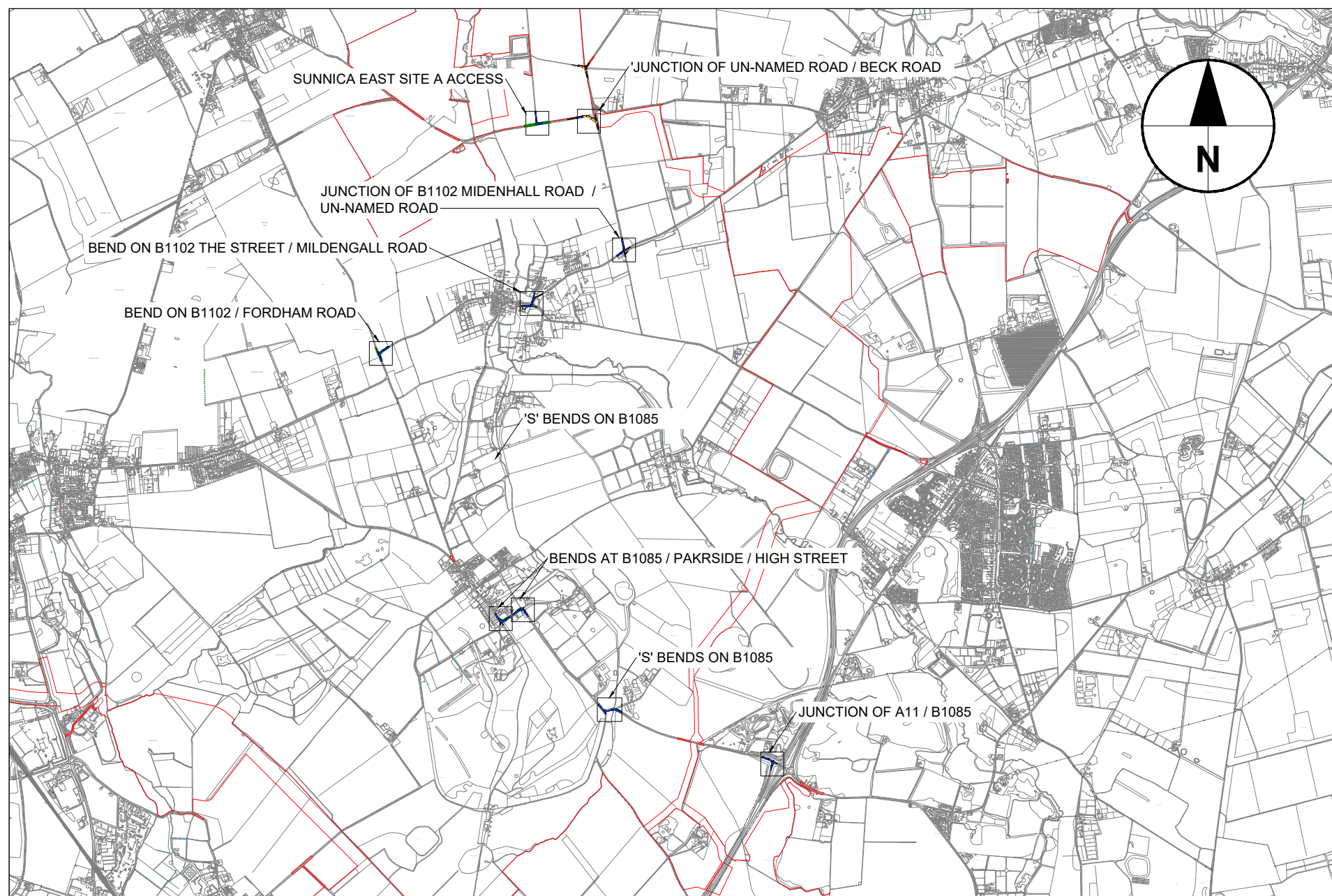
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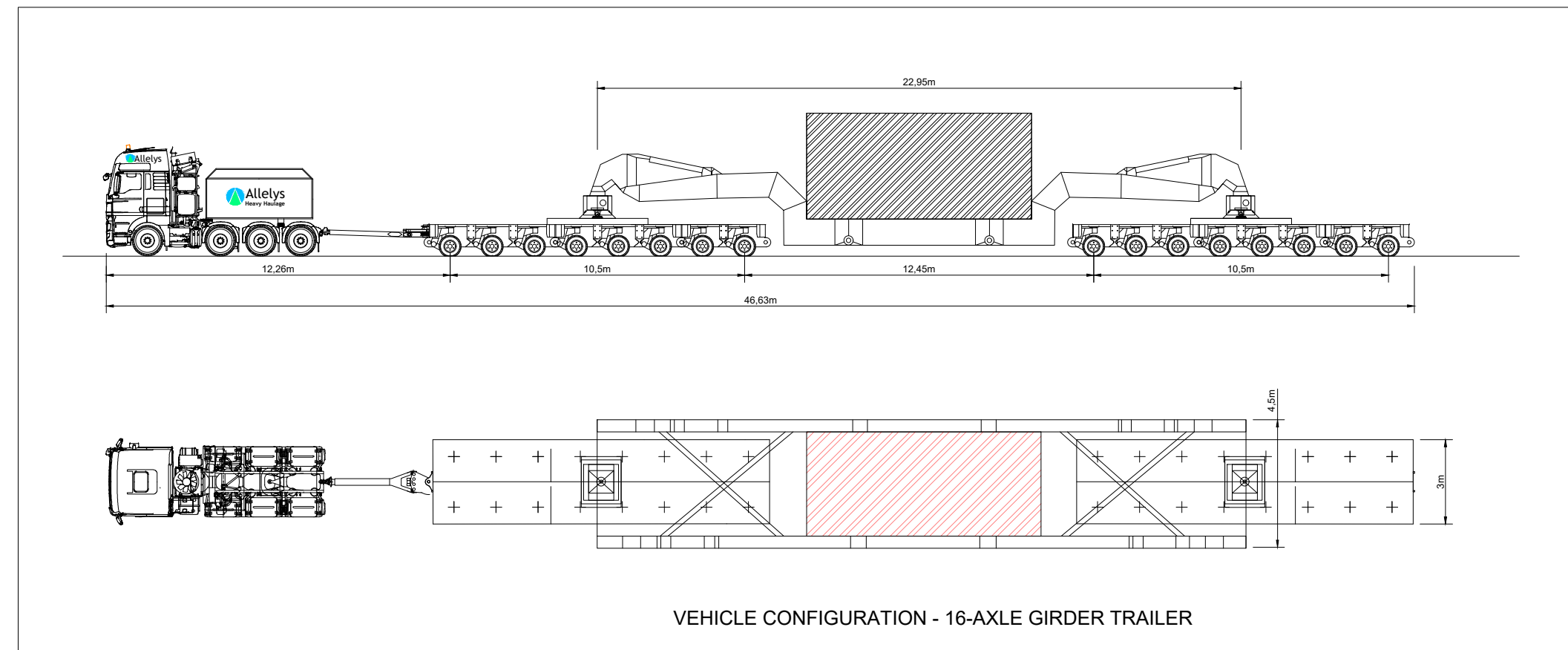
SUNNICA EAST SITE A
INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY
- SHEET 1 OF 7
Sheet Number

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LOCATION PLAN

SCALE 1:25000



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 -  EXISTING ROAD SIGN
 -  EXISTING STREET FURNITURE (LAMP POST, BOLLARD, EP, TP, etc.)
 -  SITE BOUNDARY



Project

SUNNICA
ENERGY FARM

Client

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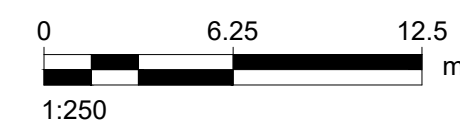
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INDICATIVE VEHICLE TRACKING
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- SHEET 2 OF 7
Sheet Number

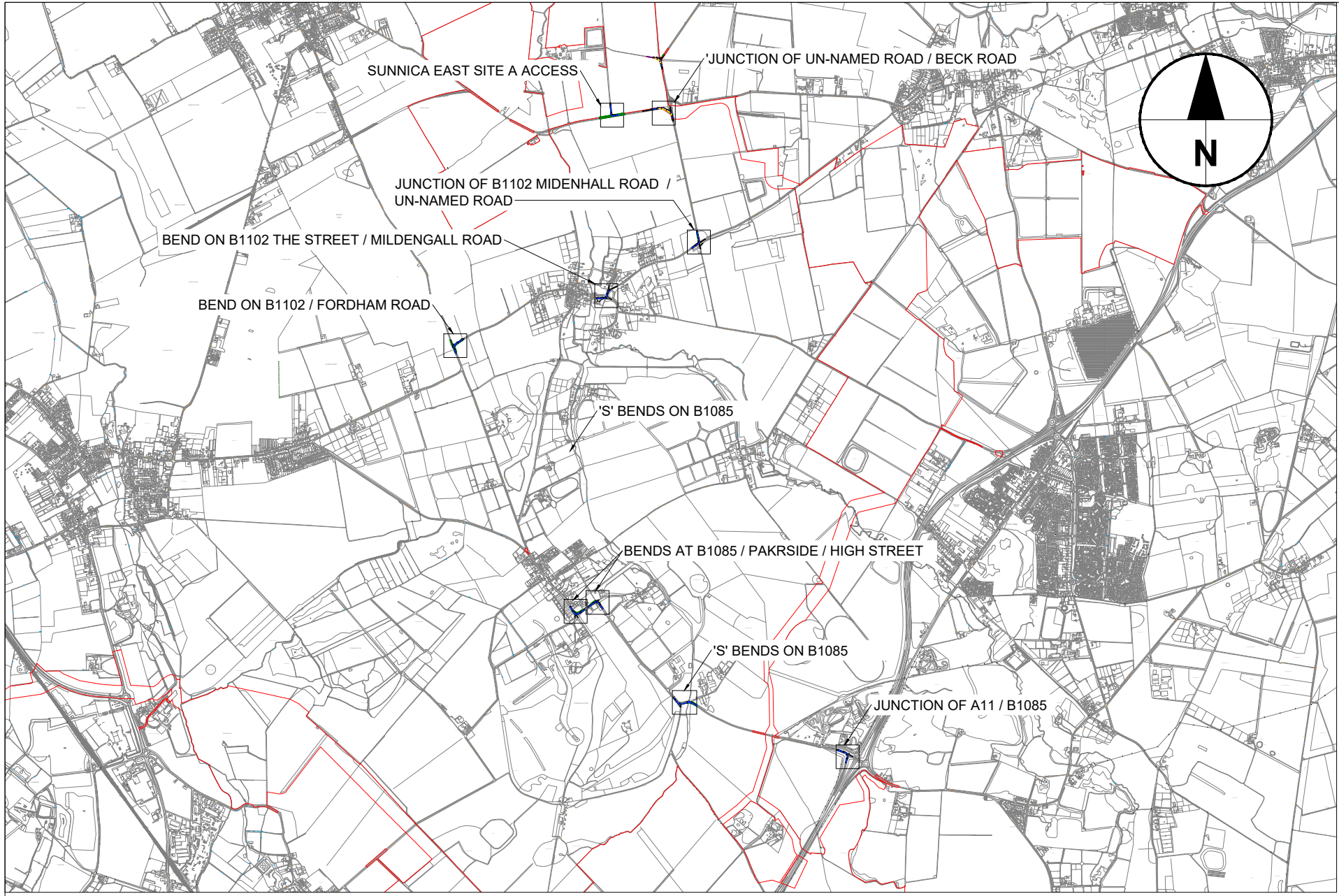
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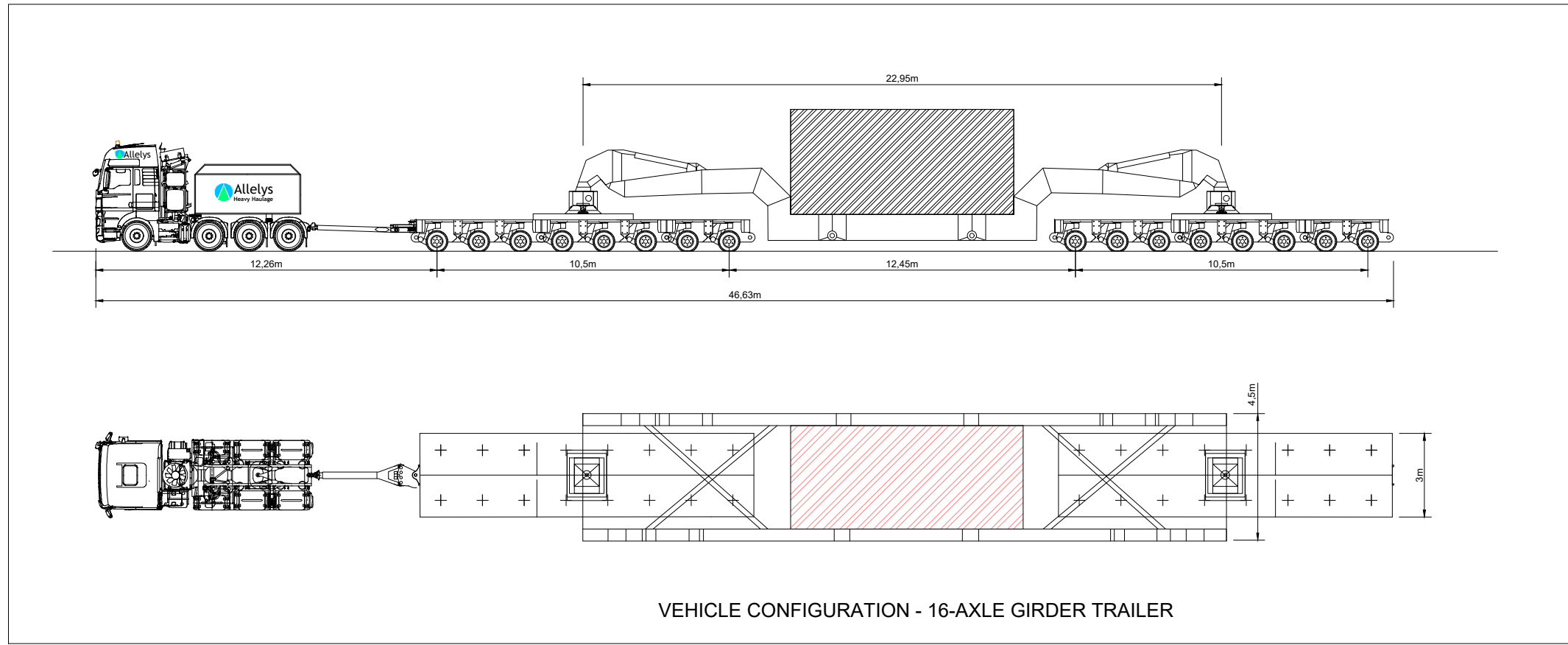


INDICATIVE VEHICLE TRACKING AT 'S' BENDS ON B1085





LOCATION PLAN
SCALE 1:25000



KEY:	
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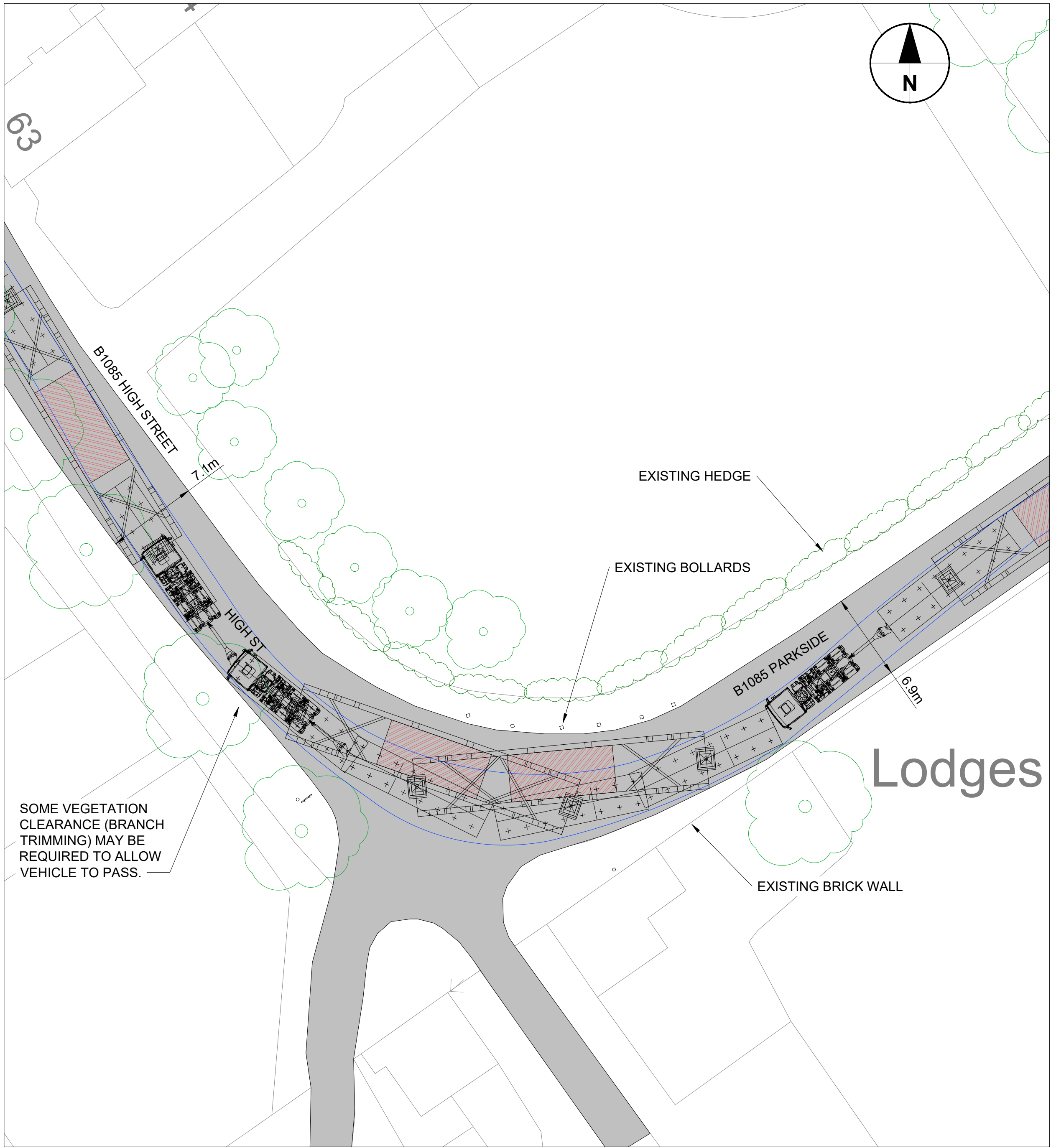
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INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY
- SHEET 3 OF 7
Sheet Number

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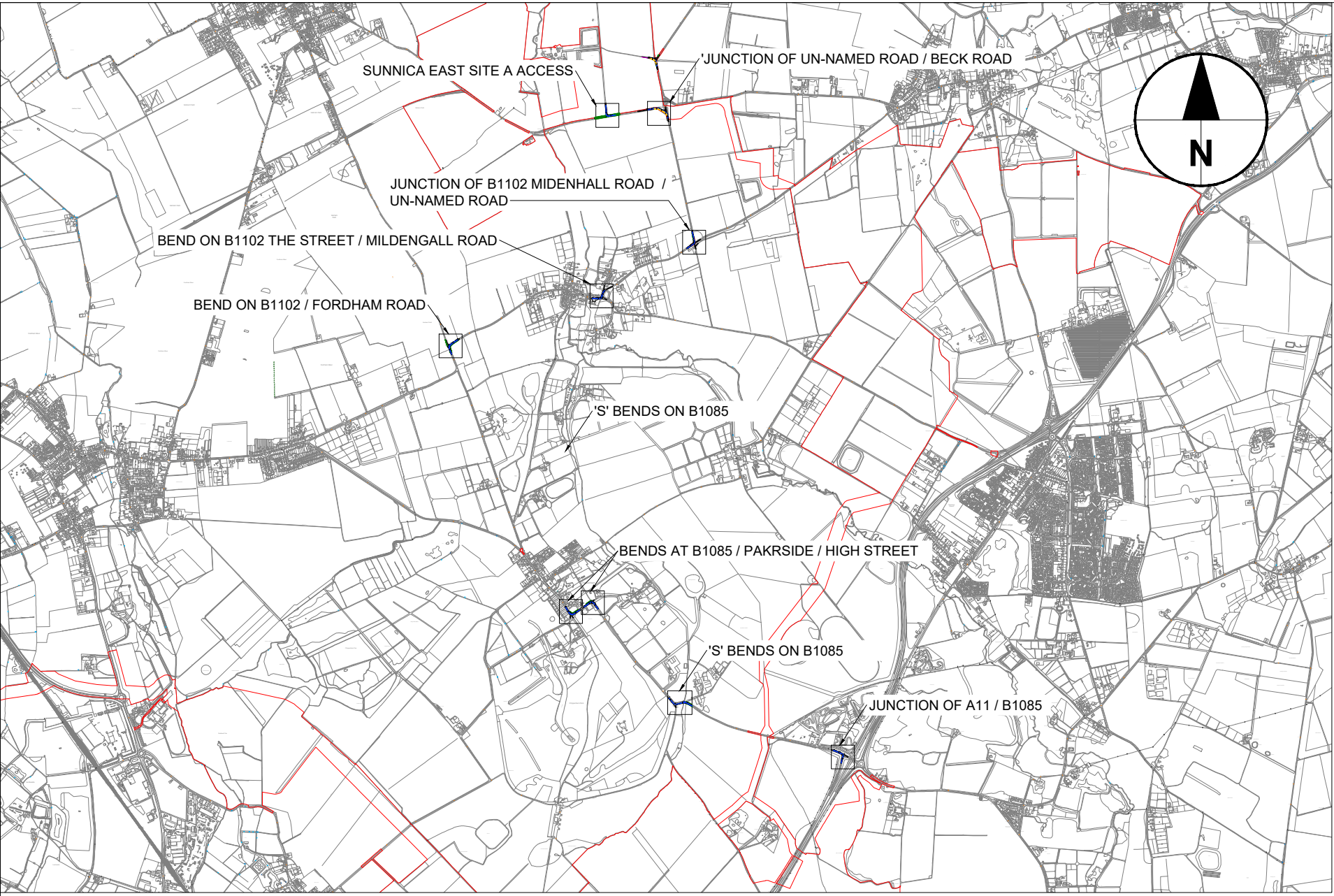


INDICATIVE VEHICLE TRACKING AT BEND ON B1085 PARKSIDE / HIGH STREET

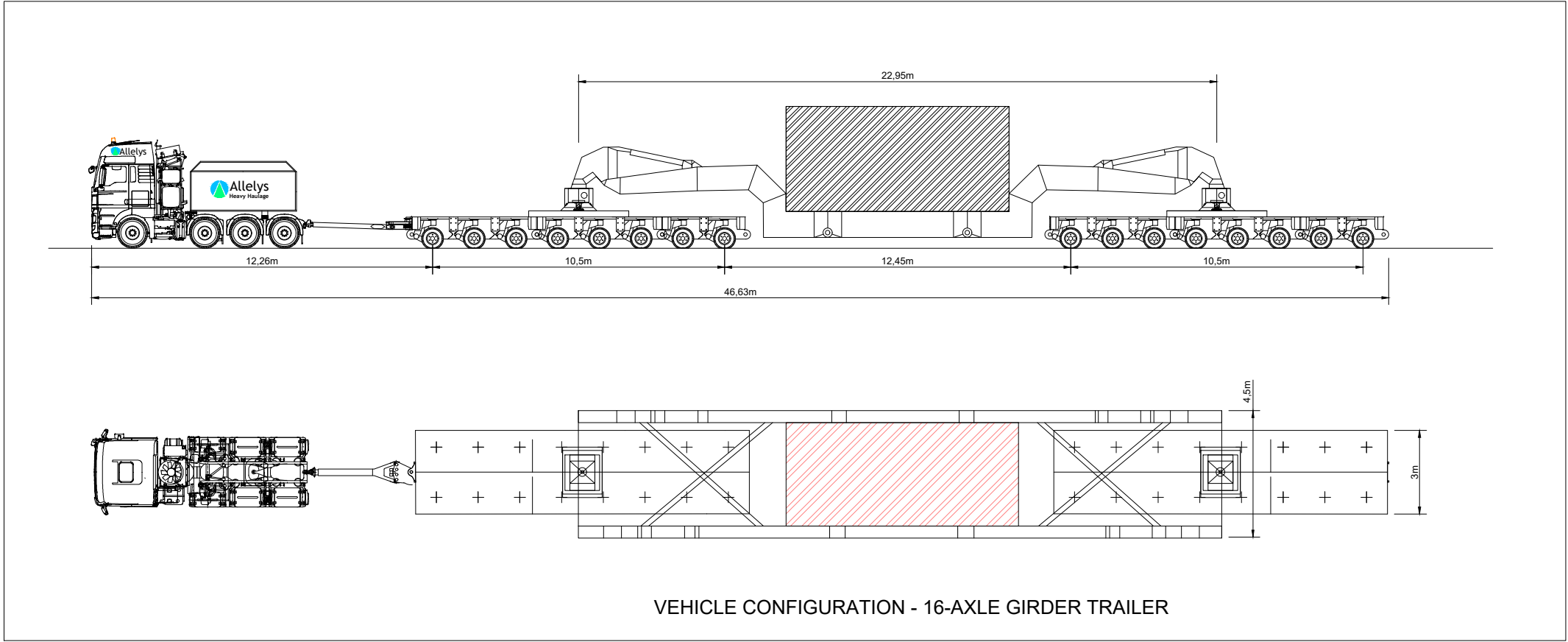


INDICATIVE VEHICLE TRACKING AT BEND ON B1085 / PARKSIDE

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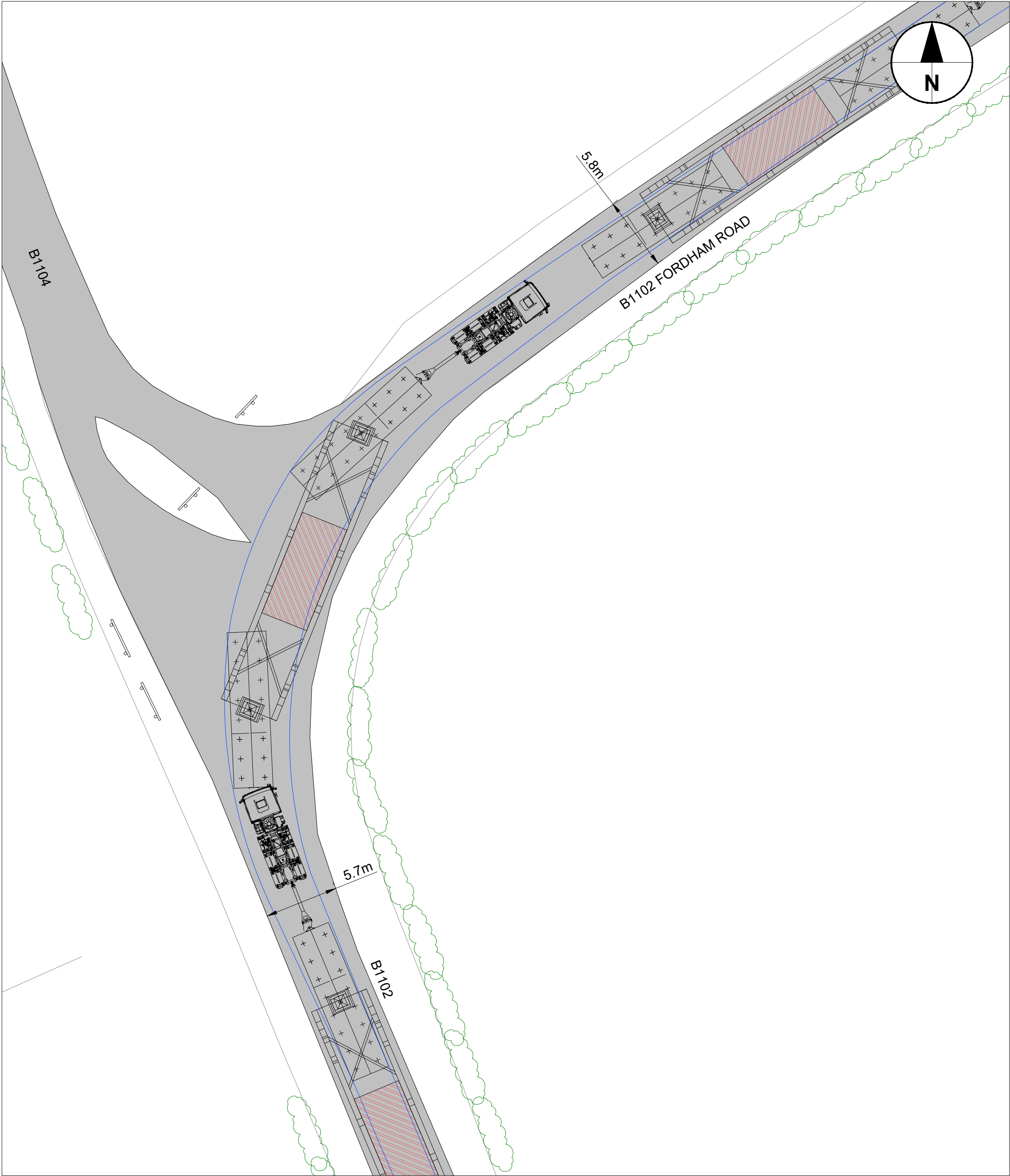
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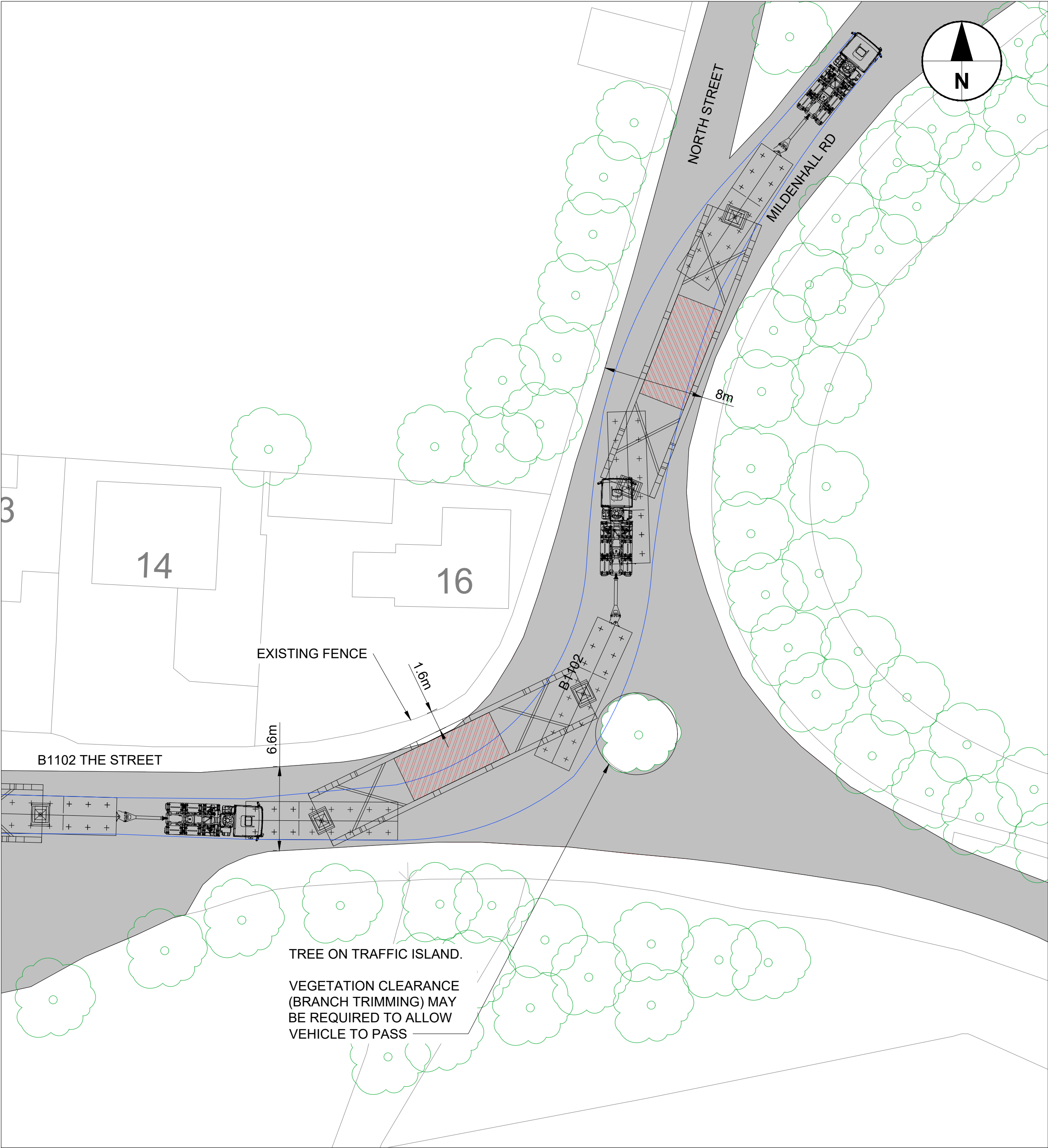
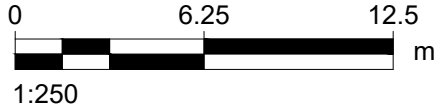
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- SHEET 4 OF 7
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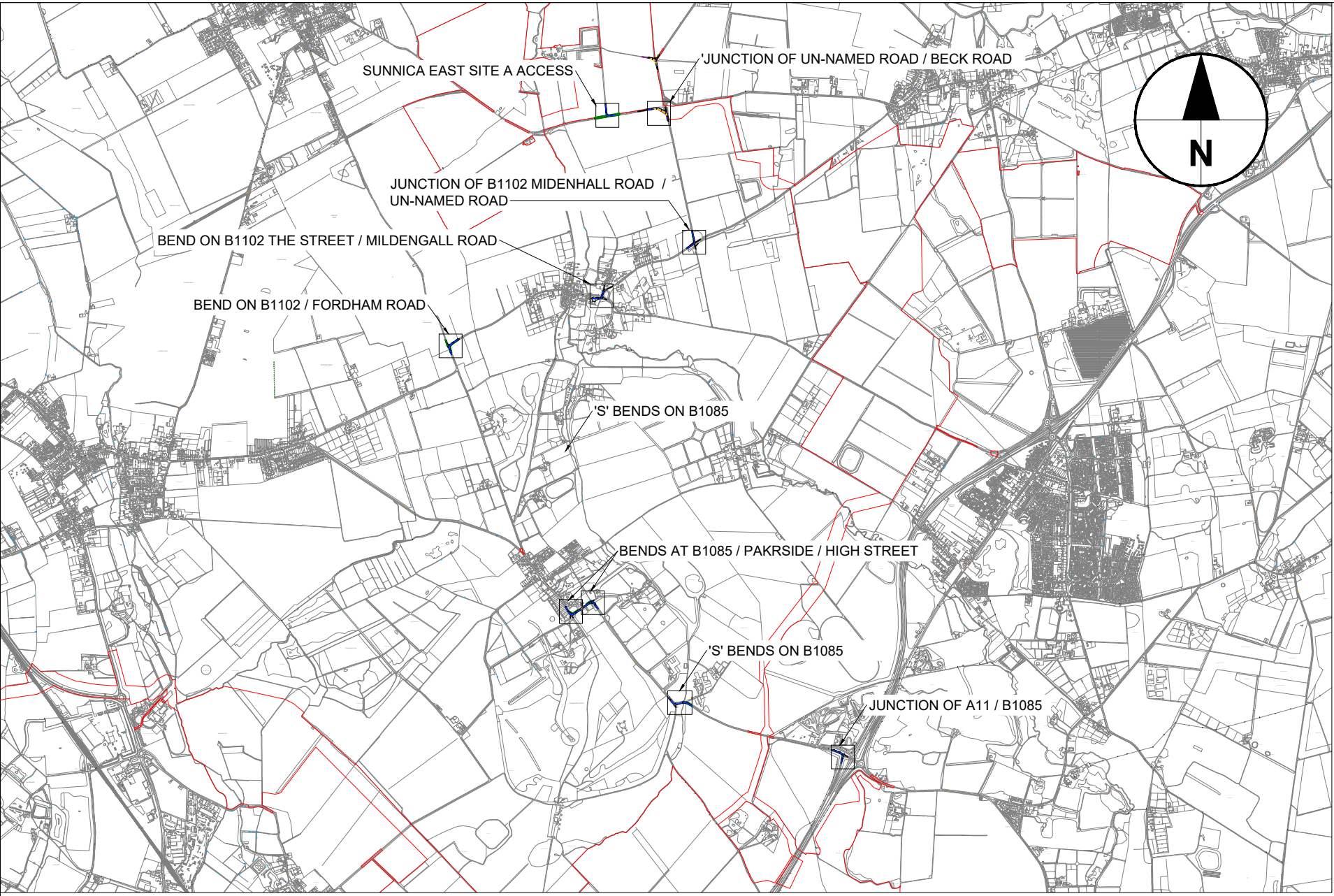


INDICATIVE VEHICLE TRACKING AT BEND ON B1102 / FORDHAM ROAD

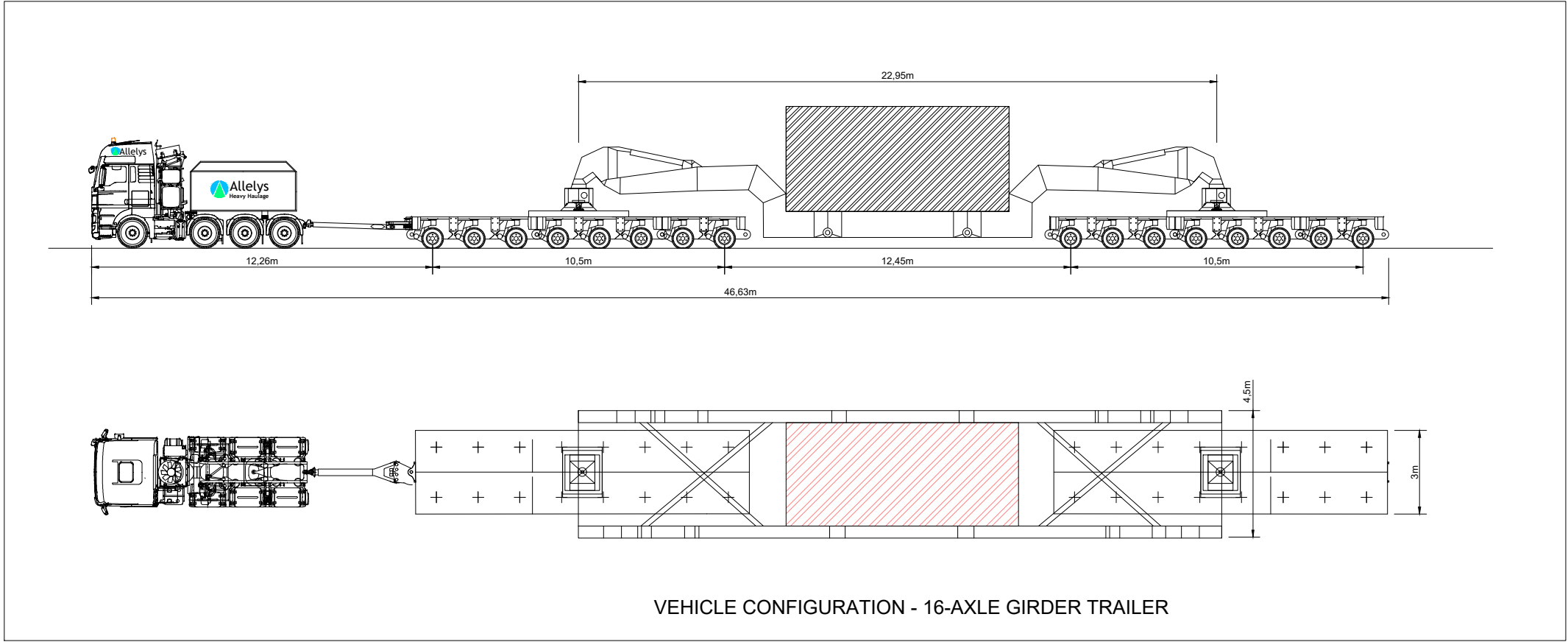


INDICATIVE VEHICLE TRACKING AT BEND AT B1102 THE STREET / MILDENHALL ROAD

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Project

SUNNICA ENERGY FARM

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Purpose Of Issue

FOR INFORMATION

Project Number

60589004

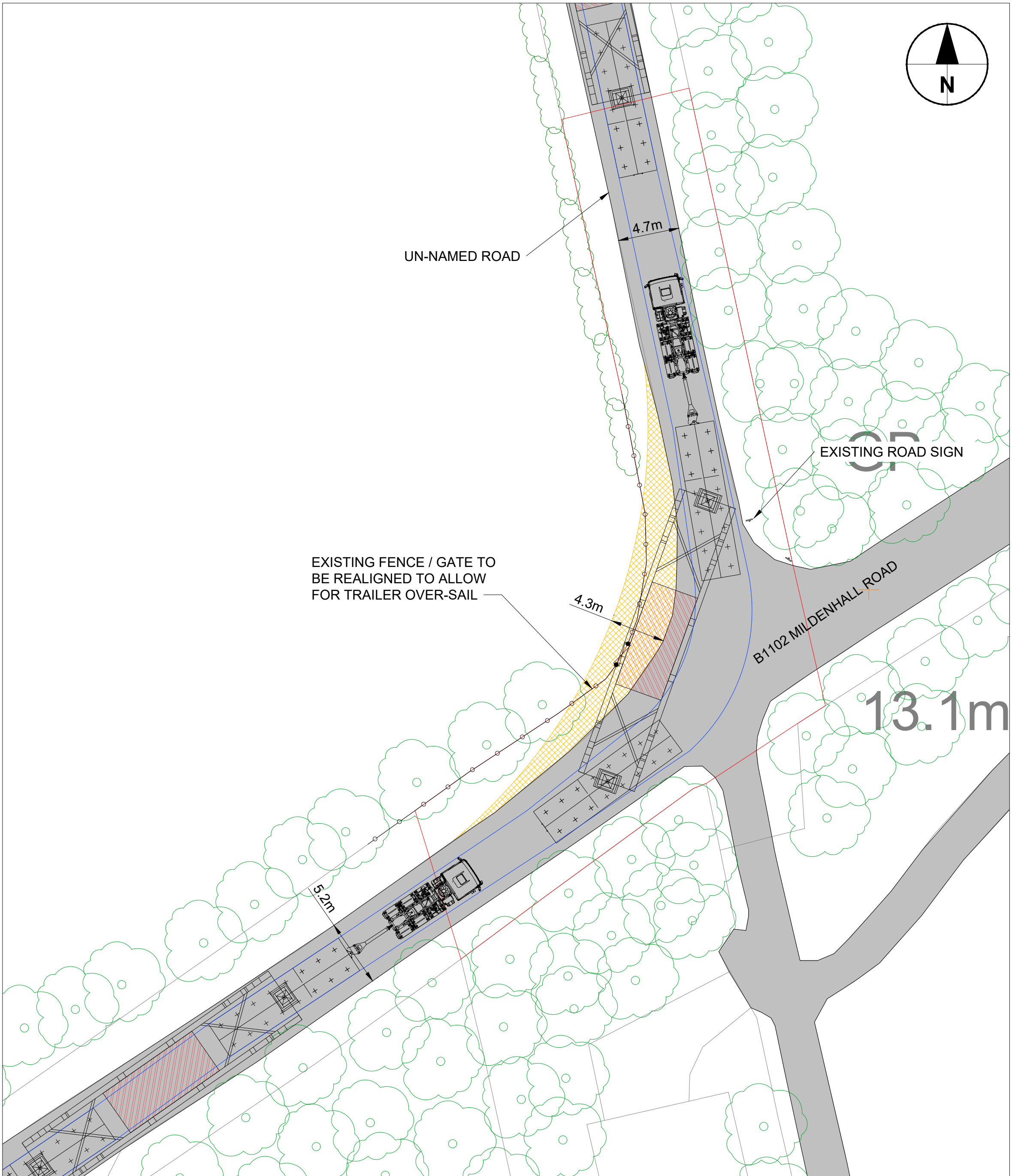
Sheet Title

SUNNICA EAST SITE A
INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY
- SHEET 5 OF 7
Sheet Number

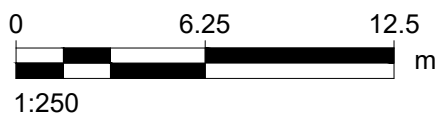
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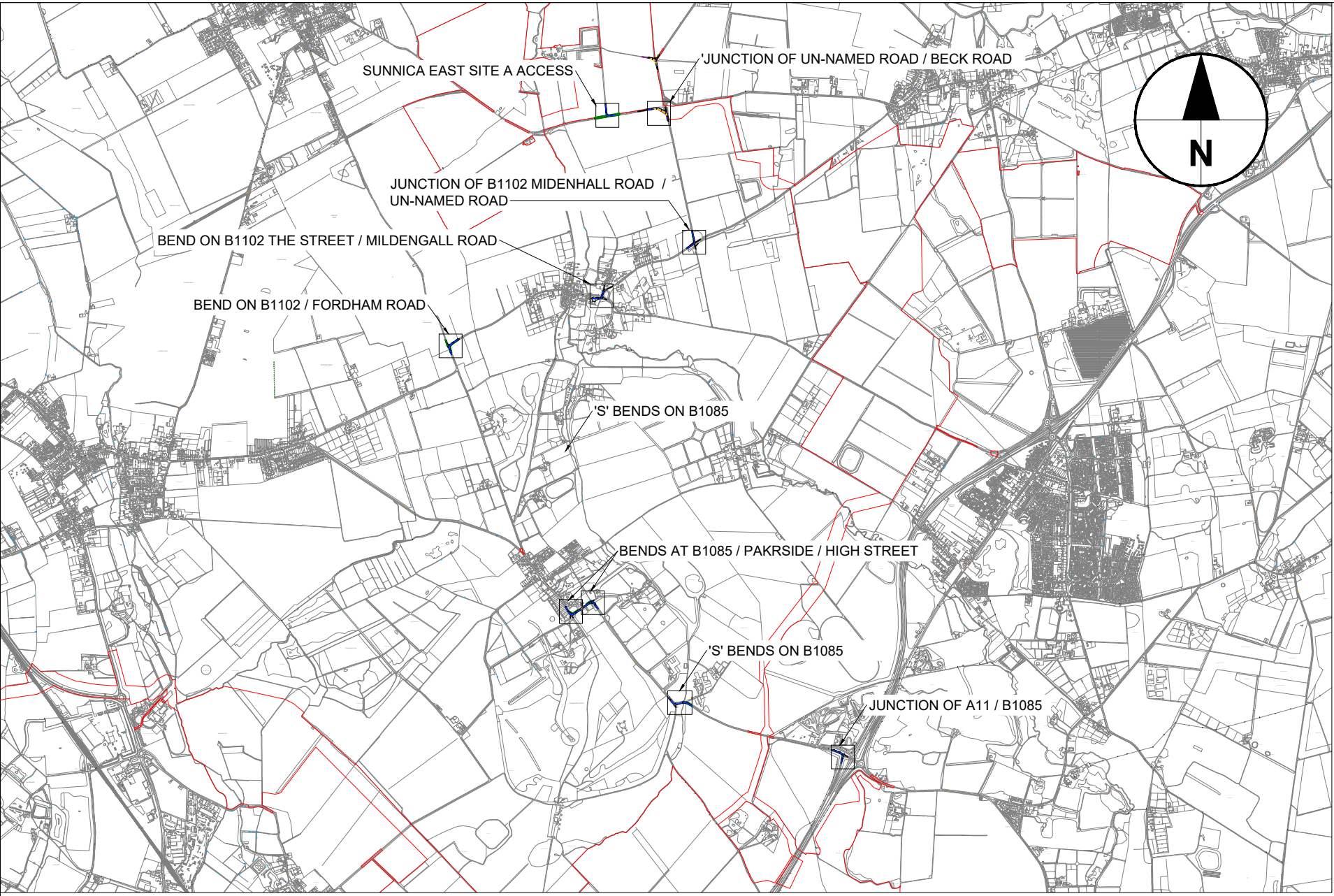
Rev: .



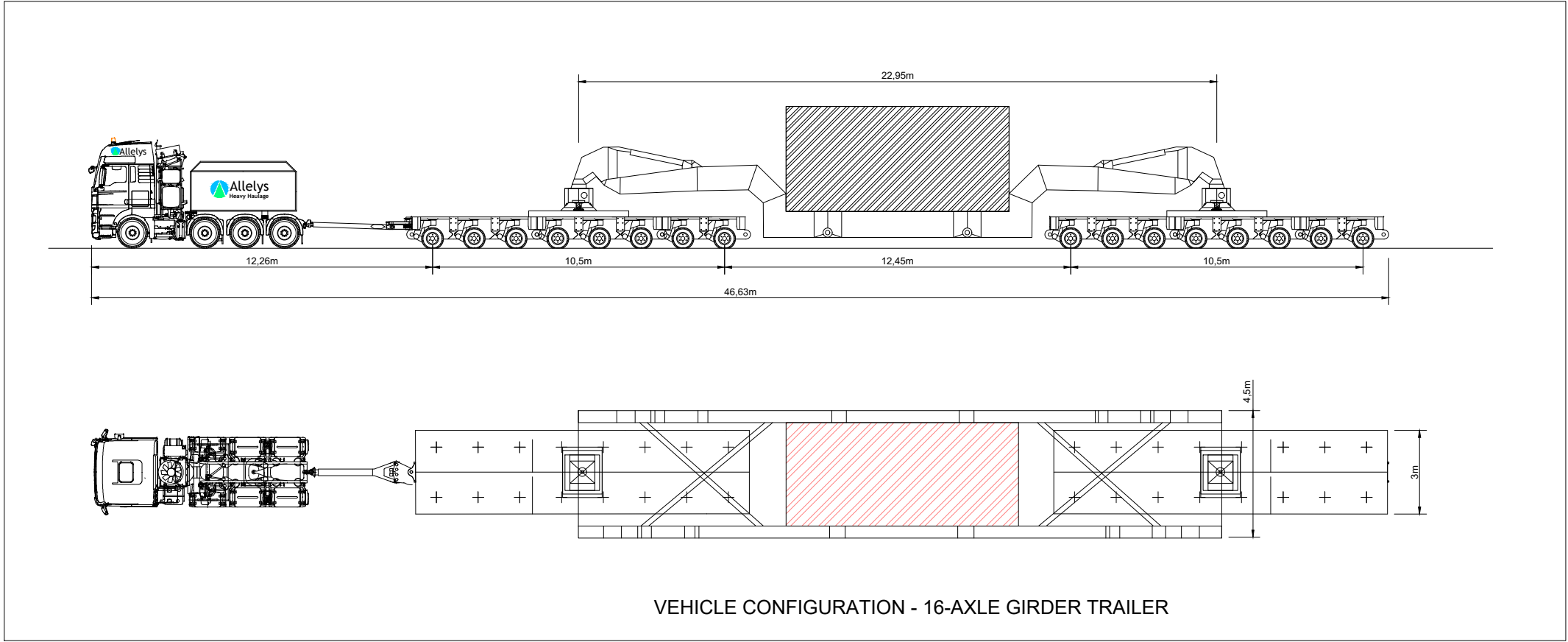
INDICATIVE VEHICLE TRACKING AT JUNCTON OF B1102 MILDENHALL ROAD / UN-NAMED ROAD



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LOCATION PLAN
SCALE 1:25000



KEY:	
	EXISTING ROAD
	APPROXIMATE OUTER WHEEL TRACK OF TRACTOR UNIT / TRAILER BOGEYS (REFER NOTES)
	OVERSAIL OF TRAILER GIRDER SECTION
	PROPOSED SITE ENTRANCE
	EXISTING TREES / VEGETATION
	EXISTING HEDGES / VEGETATION
	EXISTING ROAD SIGN
	EXISTING STREET FURNITURE (LAMP POST, BOLLARD, EP, TP, etc.)
	SITE BOUNDARY

Project
SUNNICA
ENERGY FARM

Client

..

Consultant

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Tel +44 (0)131 301 8600
www.aecom.com

Notes

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- DEFINITIVE VEHICLE TRACKING OF SPECIFIC DELIVERY VEHICLE TO BE CARRIED OUT BY HAULIER, TO ENSURE DESIRED MANEUVERS ARE ACHIEVABLE, AND TO CONFIRM ANY REQUIRED ROAD WIDENING, TEMPORARY WORKS, ETC.

ISSUE/REVISION

Rev	Date	Description	Dwn/Chk/Appr
-	28/06/22	FIRST ISSUE	DWT/EP/CGJ

Key Plan

Purpose Of Issue

FOR INFORMATION

Project Number

60589004

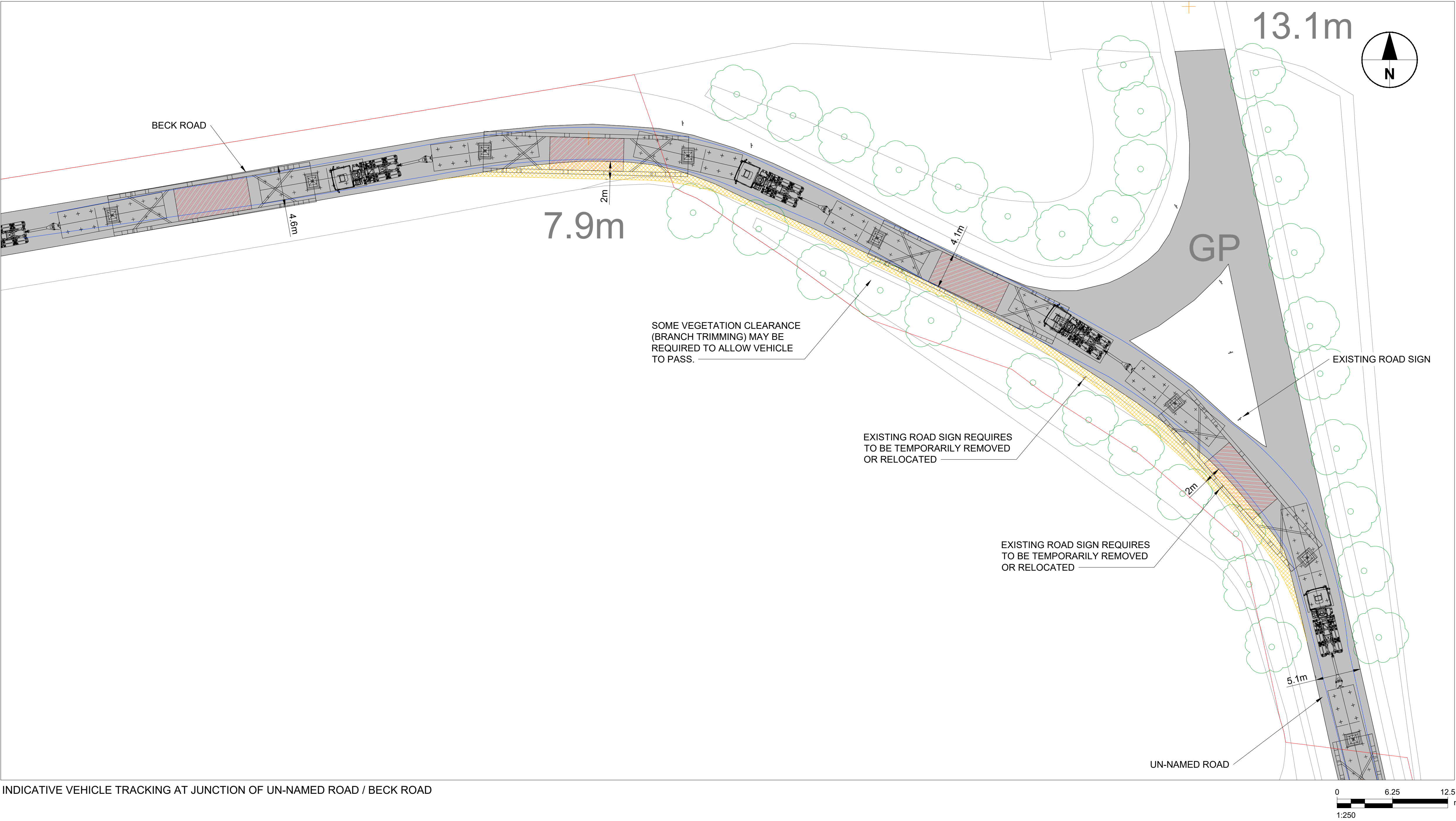
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SUNNICA EAST SITE A
INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY
- SHEET 6 OF 7
Sheet Number

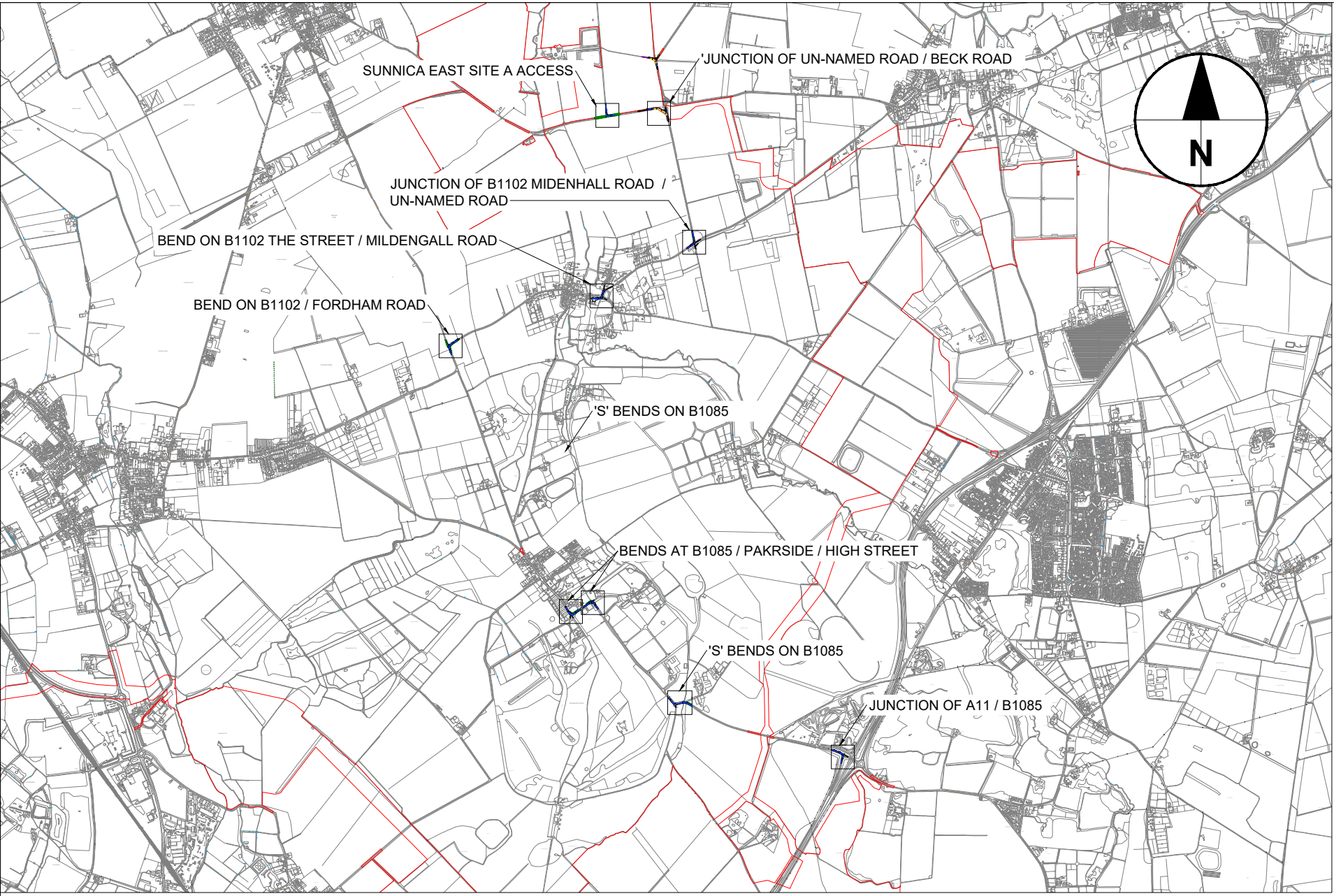
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Scale: 1:250 @ A1 Rev: .

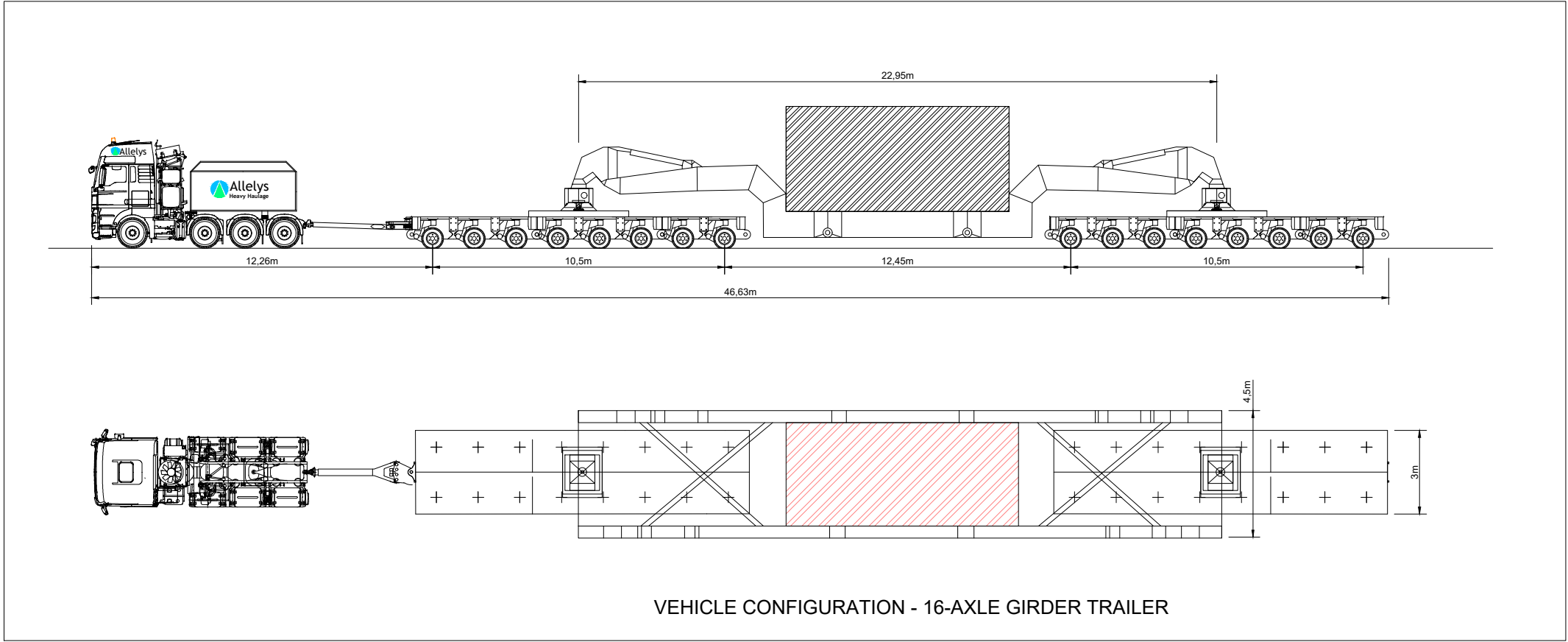
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INDICATIVE VEHICLE TRACKING AT JUNCTION OF UN-NAMED ROAD / BECK ROAD

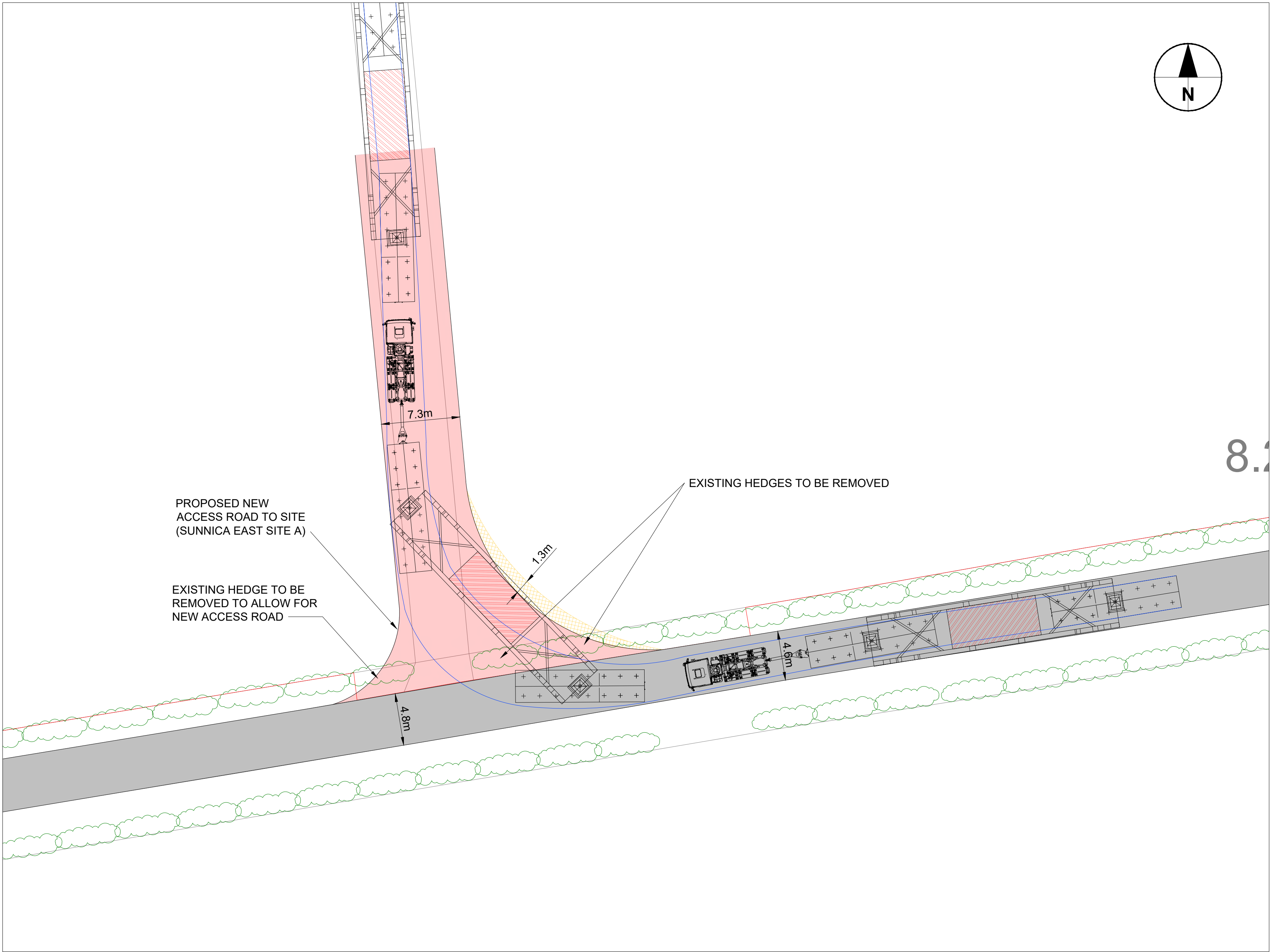


LOCATION PLAN
SCALE 1:25000

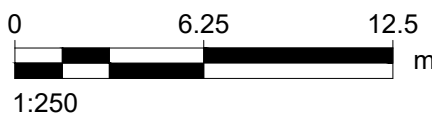


KEY:

- EXISTING ROAD
- APPROXIMATE OUTER WHEEL TRACK OF TRACTOR UNIT / TRAILER BOGEYS (REFER NOTES)
- OVERSAIL OF TRAILER GIRDER SECTION
- PROPOSED SITE ENTRANCE
- EXISTING TREES / VEGETATION
- EXISTING HEDGES / VEGETATION
- EXISTING ROAD SIGN
- EXISTING STREET FURNITURE (LAMP POST, BOLLARD, EP, TP, etc.)
- SITE BOUNDARY



INDICATIVE VEHICLE TRACKING AT SUNNICA EAST SITE A ACCESS



AECOM

Project

SUNNICA ENERGY FARM

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ISSUE/REVISION

Rev	Date	Description	Dwn/Chk/Appr
-	28/06/22	FIRST ISSUE	DWT/EP/CGY

Key Plan

Purpose Of Issue

FOR INFORMATION

Project Number

60589004

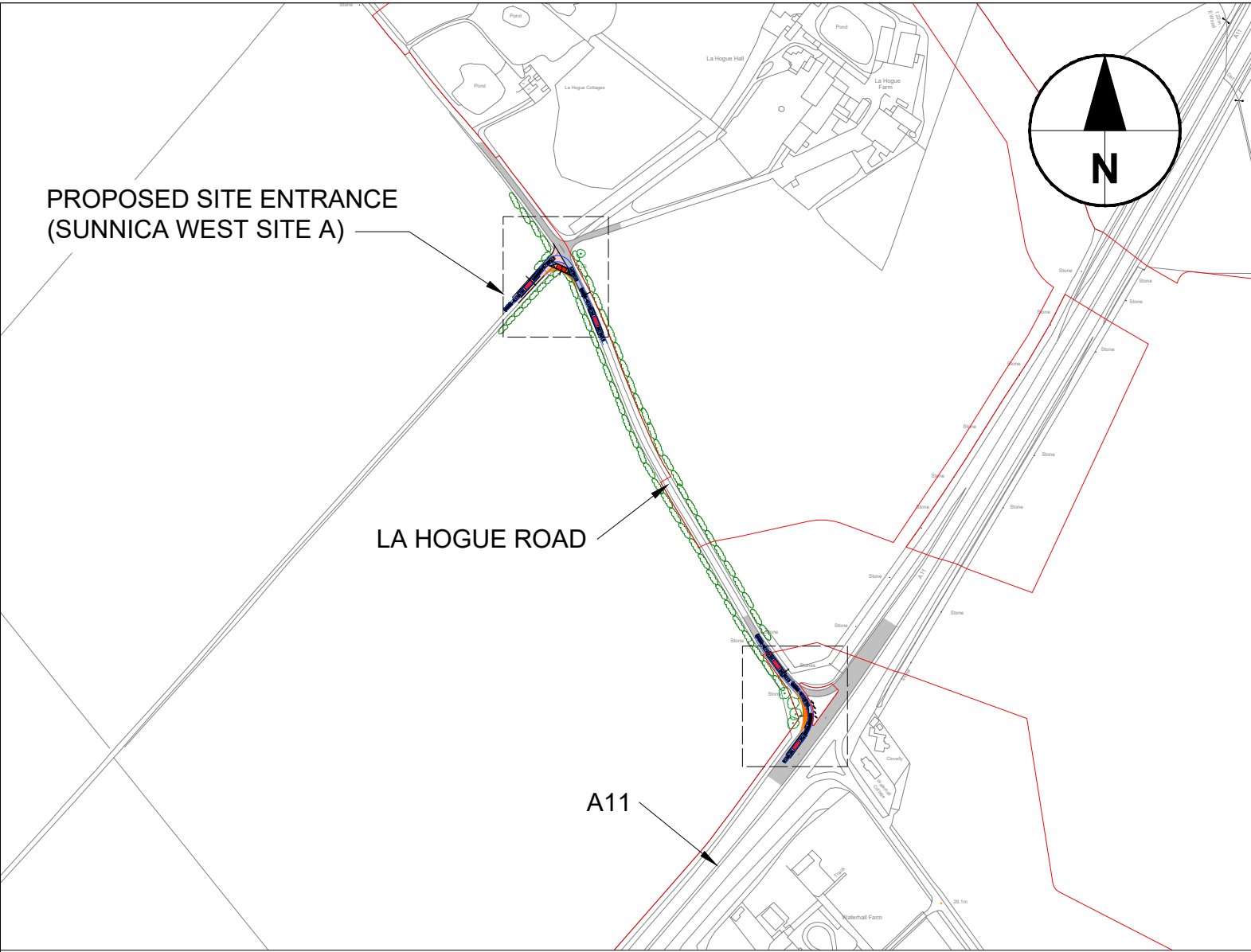
Sheet Title

SUNNICA EAST SITE A
INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY
- SHEET 7 OF 7
Sheet Number

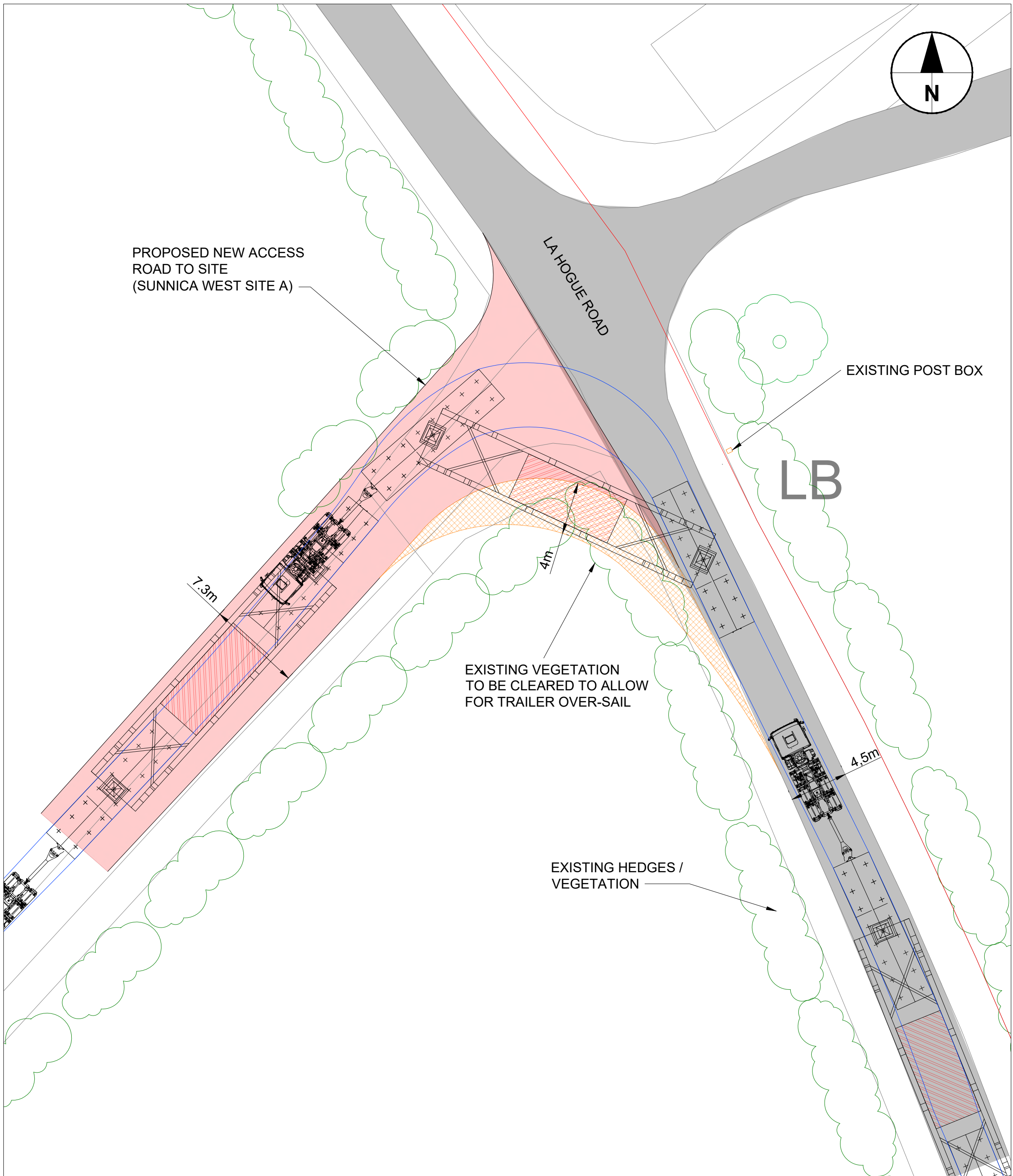
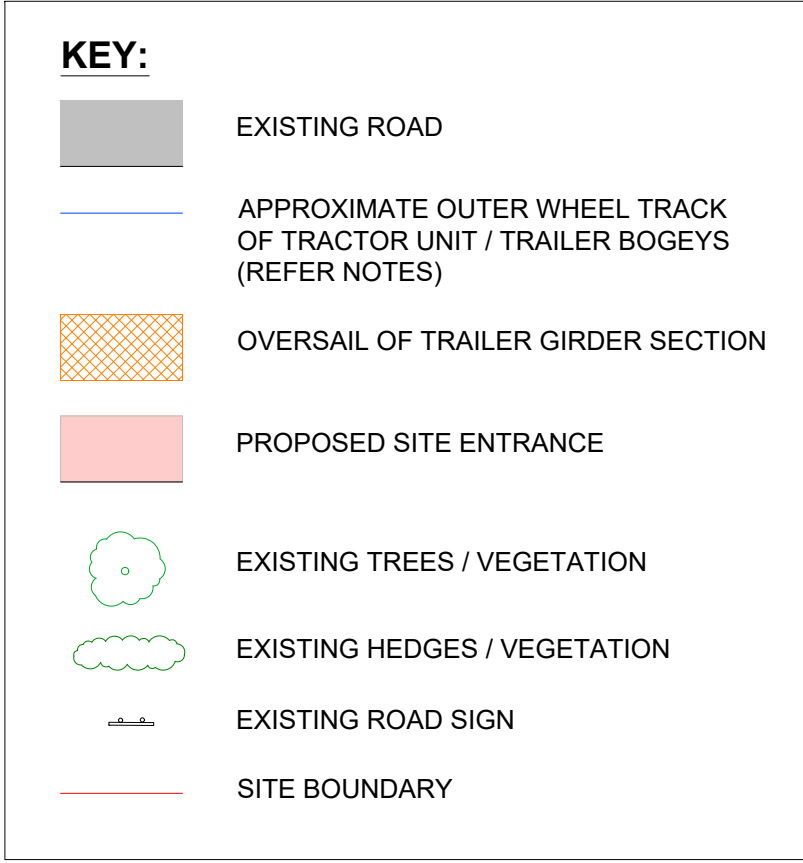
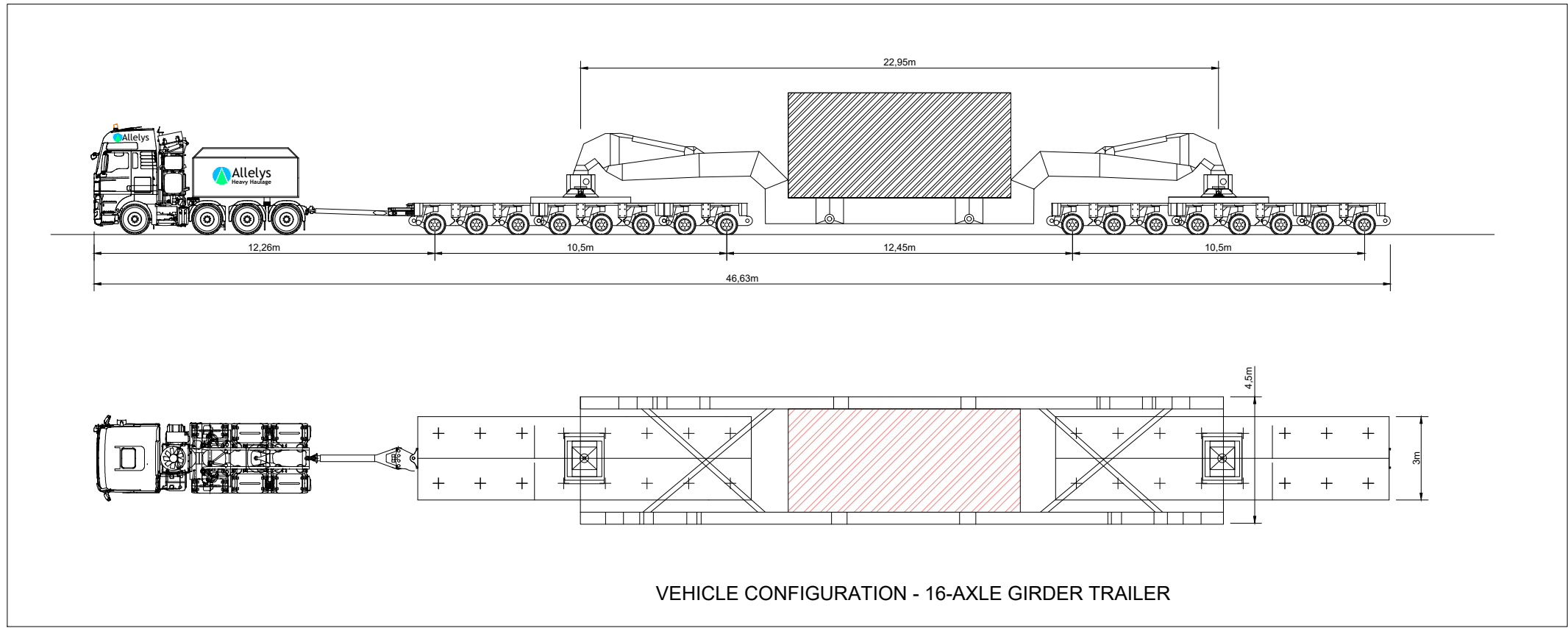
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Scale: 1:250 @ A1 **Rev:** ..

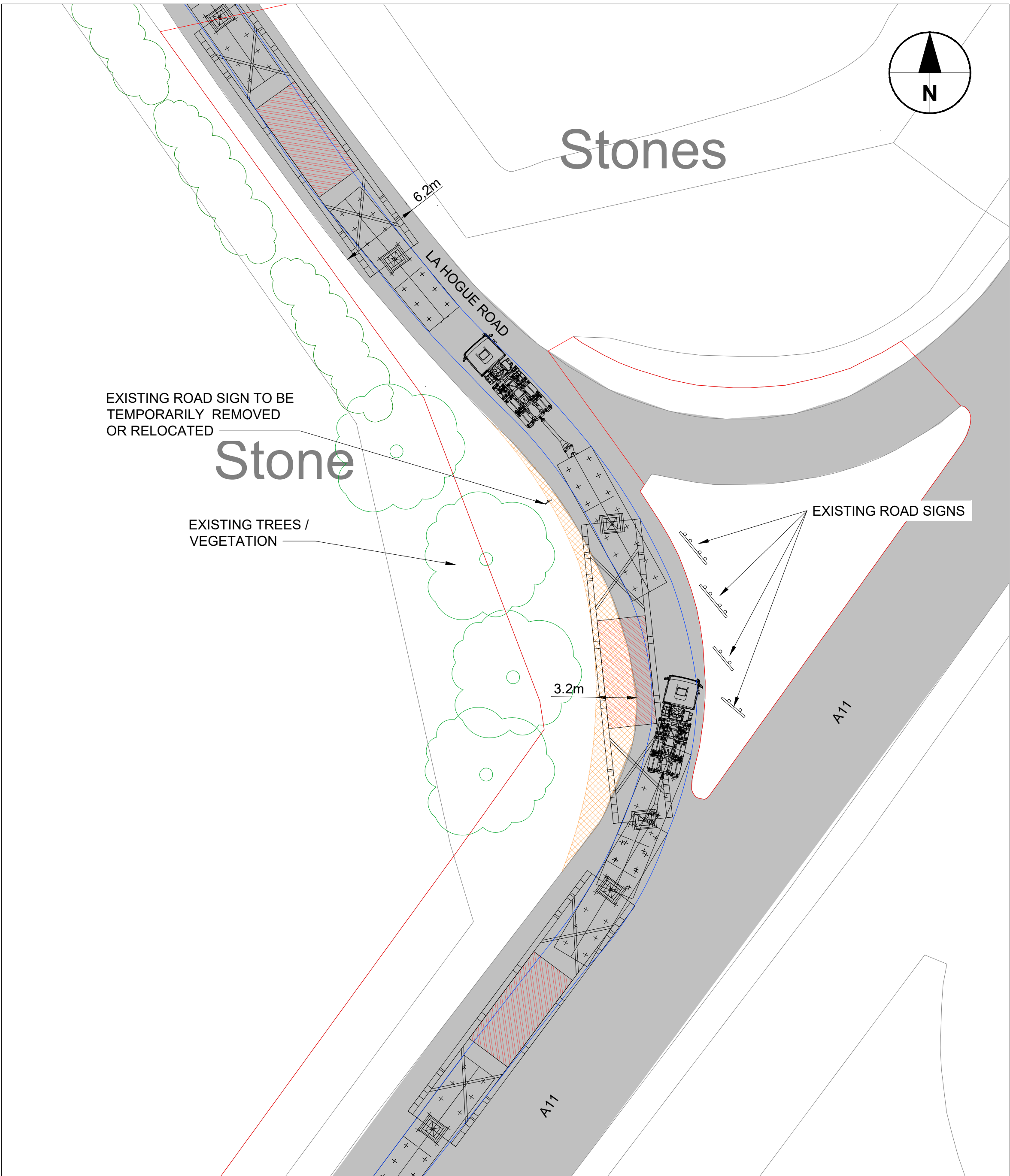
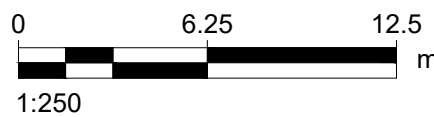
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LOCATION PLAN
SCALE 1:5000



INDICATIVE VEHICLE TRACKING AT SITE ENTRANCE



INDICATIVE VEHICLE TRACKING AT JUNCTION OF A11 / LA HOGUE ROAD

AECOM

Project

SUNNICA ENERGY FARM

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..

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ISSUE/REVISION

Rev	Date	Description	Dtn/Chk/Appr
-	24.06.22	FIRST ISSUE	DT/EP/CGY

Key Plan

Purpose Of Issue

FOR INFORMATION

Project Number

60589004

Sheet Title

SUNNICA WEST SITE A
INDICATIVE VEHICLE TRACKING
FOR TRANSFORMER DELIVERY

Sheet Number

60589004-ACM-XX-00-DR-CE-1001

Scale: 1:250 @ A1 **Rev:** ..

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