

COLLETT

EXPERTS IN MOTION



Route Access Survey – 408561

Carn Ferna Wind Farm.

Statkraft UK Ltd.
February 2025



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Report Details**Report for**

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Attendees of Survey

Spencer Budgen & Alfie Cooke

Time / Date of Survey: 30th October 2024

General weather conditions: Mixed

Issued by

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Document Revisions

No	Date	Details

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Collett & Sons Ltd established in Halifax over 45 years ago specialise in the multimodal logistics throughout the UK, Europe and Worldwide.

Our Company owns a modern fleet of over 60 vehicles and over 100 trailers, operating from 3 depots located in Halifax, Goole and Grangemouth.

The depots situated in Goole and Grangemouth offer strategically located sites suitable to provide central hubs for distribution throughout the UK. Each facility is complete with up to 110 tonnes lifting capacity in order to be able to handle all various abnormal load types. As logistical partners, the company is able to offer the complete transport solution from point of manufacture through to job site.

Collett & Sons Limited operate an in-house consultancy that deals with transport feasibility, route and site access surveys, Swept Path Analysis, Traffic Management Plans, Test Drives and Environment Statements.

In addition to consulting services, Collett & Sons Limited delivers the following services;

- Marine
- Port Operation
- Heavy Lift Storage
- Heavy Transport
- Project Management
- Freight Forwarding
- Heavy Lift
- General Haulage
- Warehousing
- Test Station (DVSA-authorized)
- SHEQ Training



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1. Executive Summary

Third party land

- 1.1. Third party land has been identified in numerous locations throughout the routes, these are outlined below and also detailed within the main body of the report.
- 7.6.3 – S-bend on A835 – Use of third party land is required on the nearside of the road to avoid colliding with the building on the offside.
 - 7.9.7 – Left hand bend – Third party land boundary to be determined.
 - 7.10.3 – Proposed turning area on A835 – Use of third party land is required to allow the blade to turn.
 - 8.3.8 – Unclassified Road / Academy Road junction – Oversailing third party land required.
 - 8.3.9 – Academy Road / A9 Junction – Oversailing third party land required.

Road widening

- 1.2. Road widening is required at numerous locations on the routes. These are outlined below as well as throughout the main body of the report.
- 7.4.11 – Nigg Roundabout – Central Island of the roundabout is required to be widened.
 - 7.5.1 – Ardullie Roundabout - Central Island of the roundabout is required to be widened.
 - 7.5.2 – Tore Roundabout – Road widening on splitter islands and central reservation of the roundabout required.
 - 7.5.3 - Maryburgh Roundabout - Central Island of the roundabout is required to be widened.
 - 7.6.3 – S-bend on A835 – Road widening required on the nearside of the bend.
 - 7.10.3 – Proposed turning area on A835 – Turning head to be constructed.
 - 8.3.1 – Port exit – Road widening required.
 - 8.3.8 Unclassified Road / Academy Road junction – Road widening on the offside of the junction is required.

Modifications to street furniture

- 1.3. Modifications to street furniture will be required along the routes at a high number of locations. The nature of the street furniture to be removed ranges from lamp posts, traffic signals to bollards and has been detailed in the report body. The majority of the street furniture modifications are at bends, junctions and splitter islands along the route.

Structural Assessment

- 1.4. No issues identified

Other areas of note

- 1.5. Tree removal is required at numerous locations on the routes with pruning required at additional locations.

2. Introduction

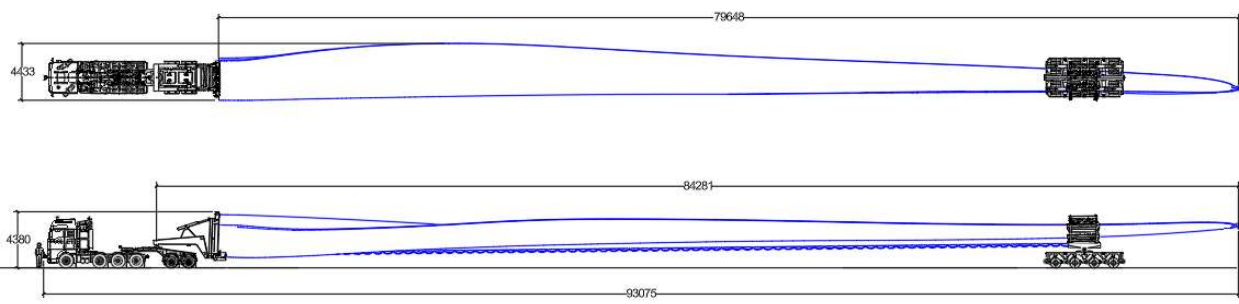
- 2.1 Collett & Sons Ltd. were commissioned by Statkraft to undertake an abnormal loads route access study to assess the transportation of a Vestas V162 to Carn Farna Wind Farm.
- 2.2 The road routes as detailed herein are for the road transport of the turbine components identified in Section 4.
- 2.3 The purpose of this report is to detail access Carn Farna Wind Farm.

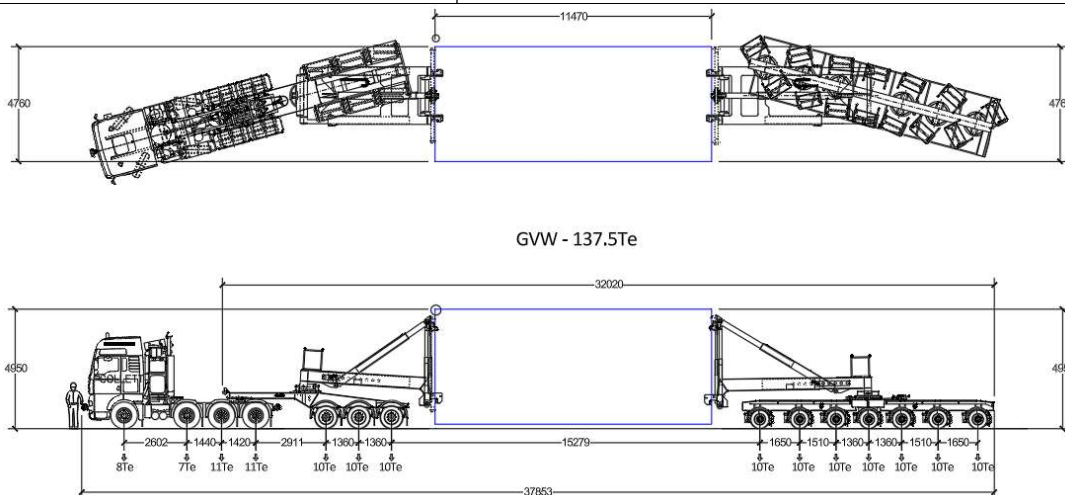
3. Candidate Abnormal Loads

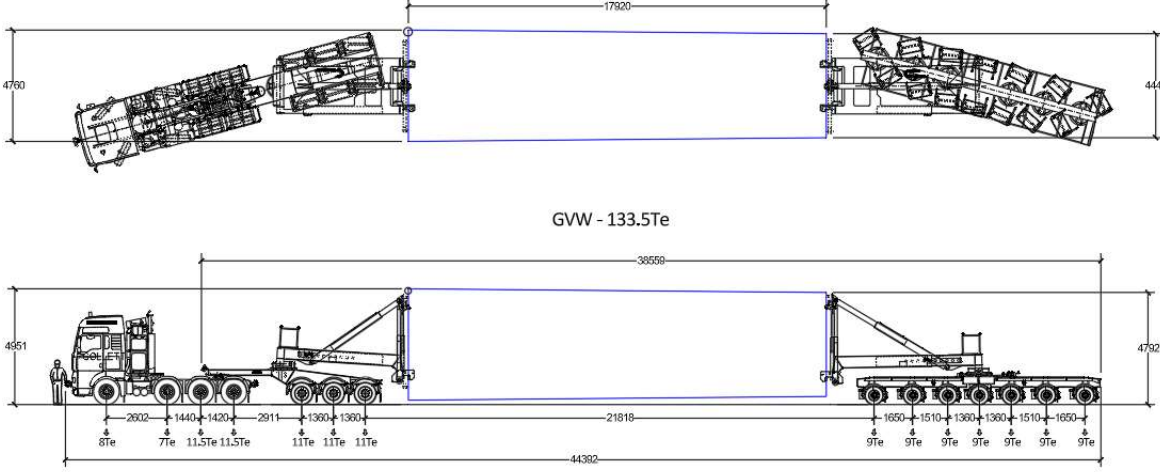
- 3.1. The specification of this turbine was supplied by Statkraft.

4. Abnormal Indivisible Load Profiles

- 4.1. The abnormal load components are assessed based on weight, length, width and height and loaded to the most appropriate vehicle the weights and dimensions of these are detailed below. The loading diagrams are detailed in Appendix 1.

4.2.	408561-A
V162 Blade	
	
	Loaded vehicle dimensions
Overall vehicle Length	93.08m
Rigid Length	84.28m
Width	4.43m
Height	4.38m
Gross Vehicle Weight	TBC
Maximum axle weight	TBC

4.3.	408561- B														
V162 Bottom Tower															
 <p>GVW - 137.5Te</p>															
<table border="1"> <thead> <tr> <th></th><th>Loaded vehicle dimensions</th></tr> </thead> <tbody> <tr> <td>Overall vehicle Length</td><td>37.84m</td></tr> <tr> <td>Rigid Length</td><td>32.02m</td></tr> <tr> <td>Width</td><td>4.95m</td></tr> <tr> <td>Height</td><td>4.76m</td></tr> <tr> <td>Gross Vehicle Weight</td><td>137.50Te</td></tr> <tr> <td>Maximum axle weight</td><td>11.00Te</td></tr> </tbody> </table>			Loaded vehicle dimensions	Overall vehicle Length	37.84m	Rigid Length	32.02m	Width	4.95m	Height	4.76m	Gross Vehicle Weight	137.50Te	Maximum axle weight	11.00Te
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Maximum axle weight	11.00Te														

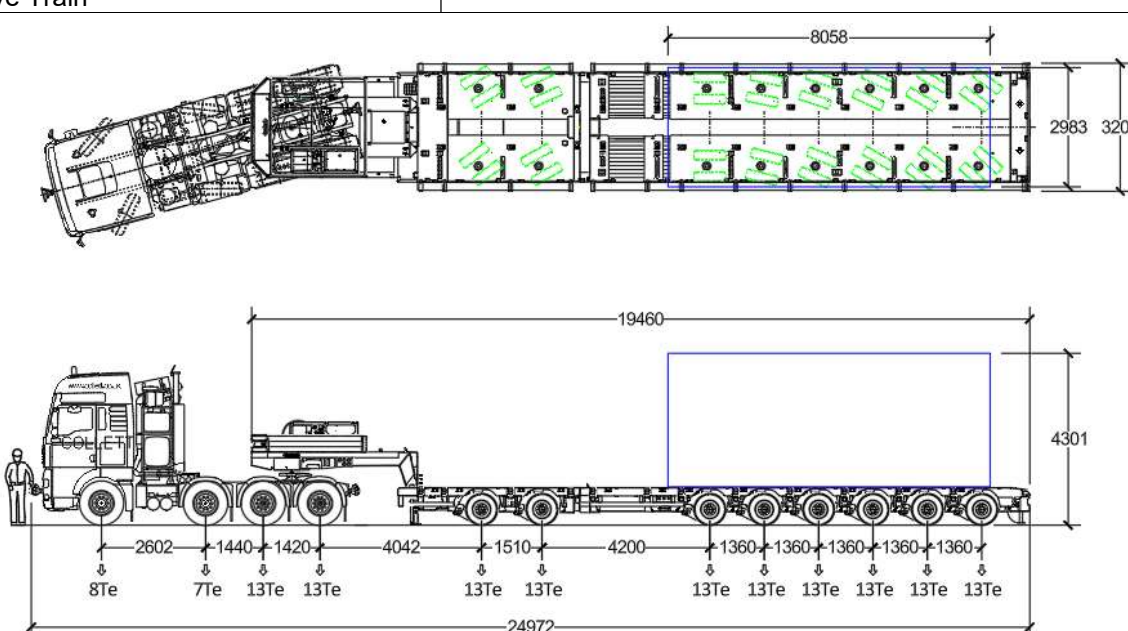
4.4.	408561-C														
V162 Middle Tower 1															
 <p>GVW - 133.5Te</p>															
<table border="1"> <thead> <tr> <th></th><th>Loaded vehicle dimensions</th></tr> </thead> <tbody> <tr> <td>Overall vehicle Length</td><td>44.39m</td></tr> <tr> <td>Rigid Length</td><td>38.56m</td></tr> <tr> <td>Width</td><td>4.76m</td></tr> <tr> <td>Height</td><td>4.95m</td></tr> <tr> <td>Gross Vehicle Weight</td><td>133.50Te</td></tr> <tr> <td>Maximum axle weight</td><td>11.50Te</td></tr> </tbody> </table>			Loaded vehicle dimensions	Overall vehicle Length	44.39m	Rigid Length	38.56m	Width	4.76m	Height	4.95m	Gross Vehicle Weight	133.50Te	Maximum axle weight	11.50Te
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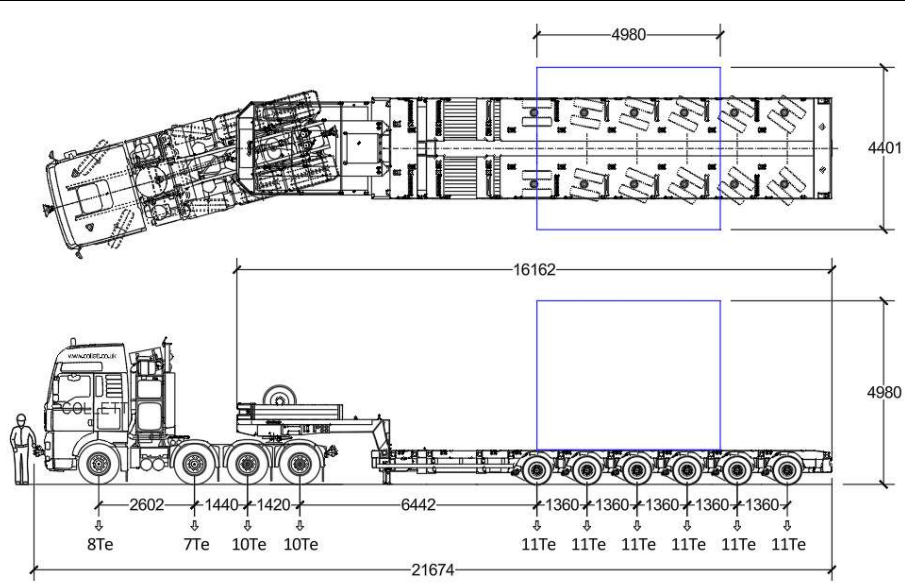
4.5.	408561-D
V162 Middle Tower 2	
	Loaded vehicle dimensions
Overall vehicle Length	51.41m
Rigid Length	45.58m
Width	4.44m
Height	4.95m
Gross Vehicle Weight	133.00Te
Maximum axle weight	11.00Te

4.6.	408561-E
V162 Middle Tower 3	
	Loaded vehicle dimensions
Overall vehicle Length	56.41m
Rigid Length	50.58m
Width	4.43m
Height	4.72m
Gross Vehicle Weight	121.50Te
Maximum axle weight	10.00Te

4.7.	408561-F
V162 Top Tower	
Loaded vehicle dimensions	
Overall vehicle Length	58.52m
Rigid Length	52.69m
Width	4.17m
Height	4.72m
Gross Vehicle Weight	117.00Te
Maximum axle weight	9.00Te

4.8.	408561-G
V162 Nacelle	
Loaded vehicle dimensions	
Overall vehicle Length	44.63m
Rigid Length	30.19m
Width	4.2m
Height	4.86m
Gross Vehicle Weight	135.00Te
Maximum axle weight	10.00Te

4.9.	408561- H
V162 Drive Train	
	
Loaded vehicle dimensions	
Overall vehicle Length	24.97m
Rigid Length	19.46m
Width	3.20m
Height	4.30m
Gross Vehicle Weight	145.00Te
Maximum axle weight	13.00Te

4.10.	408561- H
V162 Hub	
	
Loaded vehicle dimensions	
Overall vehicle Length	21.67m
Rigid Length	16.16m
Width	4.40m
Height	4.98m
Gross Vehicle Weight	101Te
Maximum axle weight	11.00Te

5. Responses from Statutory Consultees (Structures Suitability)

- 5.1. The bottom tower section when loaded has the heaviest GVW and Axle Weights. The loading information for this vehicle has been sent to the following Authorities to ascertain if there are any issues with weights and structures within the areas of the Authorities jurisdiction.

County Council Highway	Issues?	Contact Name	Email Address	Phone Number

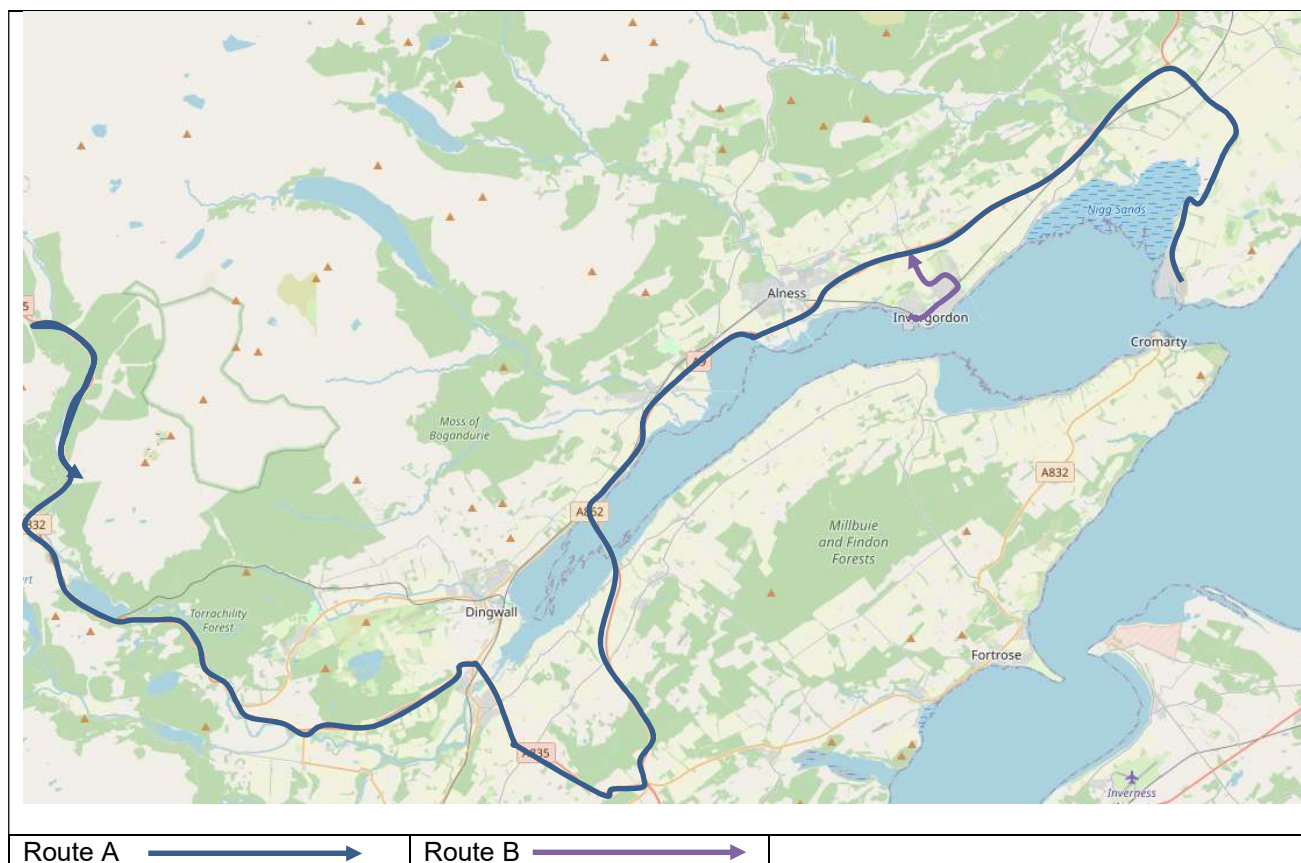
Summary of Structural Issues

The relevant authorities have been contacted but at the time of the report issue, no responses from these authorities have been received.

6. Route Assessment Overview

- 6.1. This section of the report illustrates the route assessed for the delivery of the Vestas V162 Wind turbine components to the proposed Carn Fearna Wind Farm.
- 6.2. For the purpose of this report, two routes to site were surveyed. The routes surveyed in this report has been identified by client.
- 6.3. The route has been assessed from the Port of Nigg and the port of Invergordon. The Port of Entry may change depending upon the recommendation of the highway's authority.

6.4. Map Overview



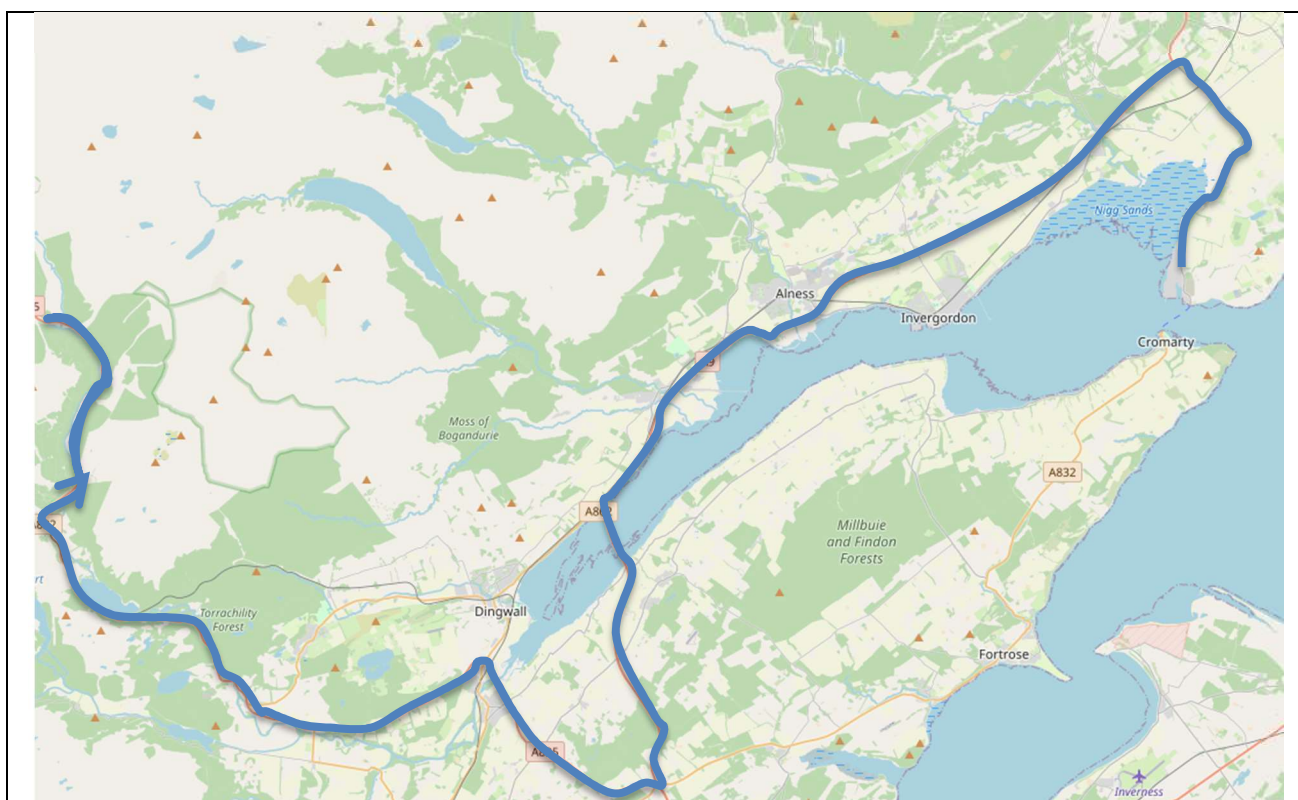
7. Route A Assessment

7.1.

Route A

Start Location	Port Of Nigg	Distance of Route	Km	Miles
Via:	B9175/A9/A835		90.2	56
<ul style="list-style-type: none">• Exit Nigg Port and turn left onto B9175;• Continue on B9175 to Nigg roundabout• At roundabout, take first exit onto A9• Continue on the A9 to Ardullie roundabout• At roundabout take first exit onto A9• Continue on A9 to Tore roundabout• At roundabout take third exit against the flow of traffic onto A835• Continue on A9 to Maryburgh roundabout• Continue on A835 to proposed turning area at Inchbae lodge• After turning is complete head back down the A835 to site entrance.				

7.2. Map Overview



7.3. Amendment Categorisation

For the purposes of this report, the route amendments have been identified into 3 categories.

Major Amendments – Third Party Land, Road Widening



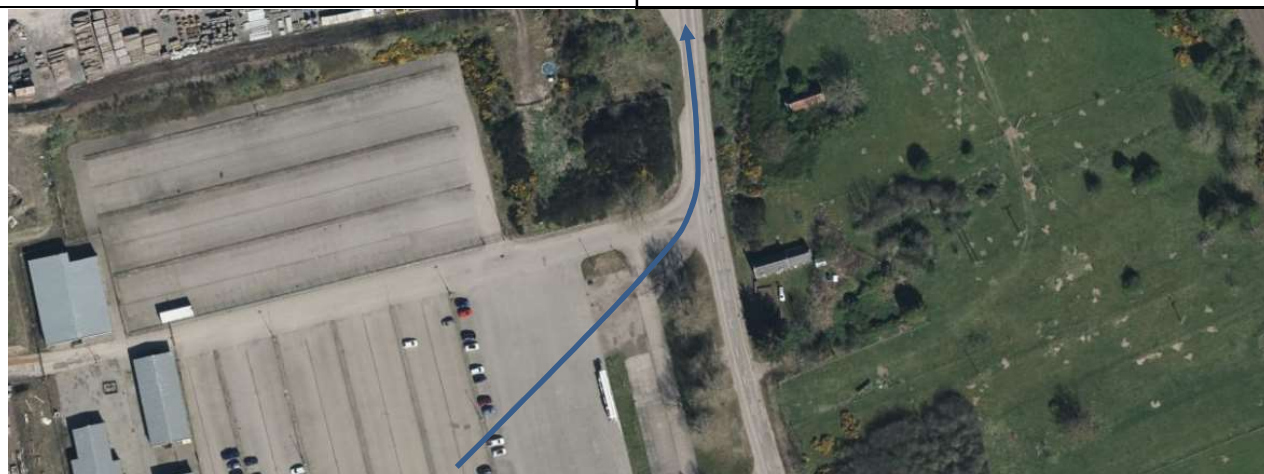
Minor Amendments – Modifications to Street Furniture, Pruning, Contraflow Manoeuvre, Manual Steering




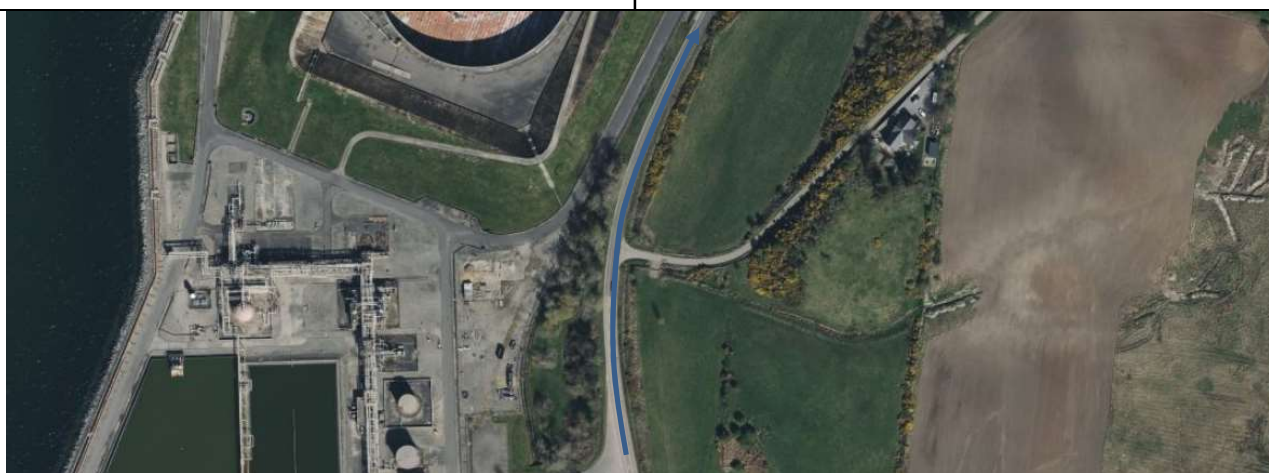
No Amendments - Location is suitable as assessed during this survey

KEY				
	Major Amendments		Minor Amendments	
				No Amendments





7.4. Map extract of survey locations




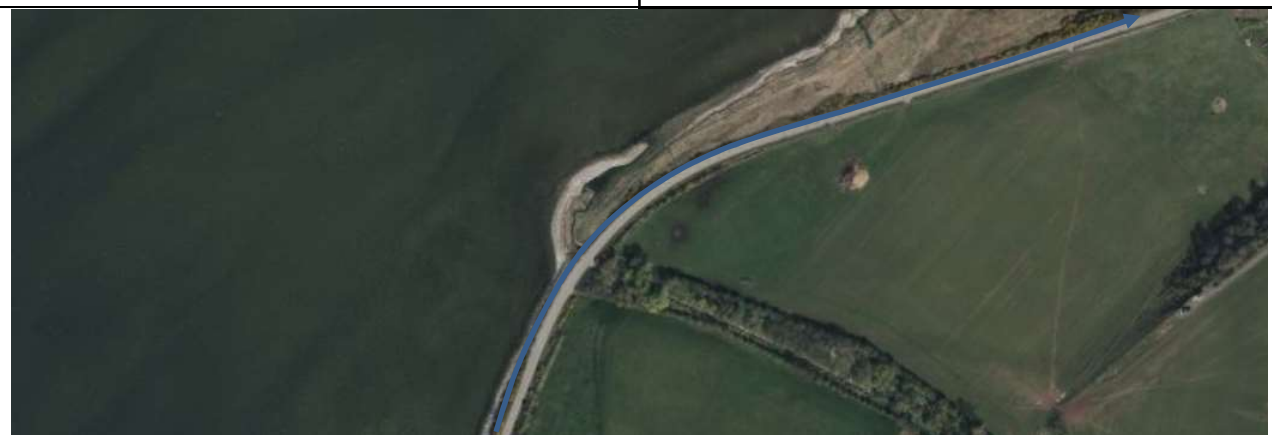






ITEM NUMBER	7.4.1	LOCATION	NIGG PORT EXIT	
DIRECTION	Exit the port onto the B9175			
GRID REFERENCE	NH 79375 70031			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the tree location to be confirmed and area is to be upgraded.		<div>Location of tree to be confirmed</div> 		
		View prior to exit of port		
				
		View after exit		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-10A1.1		





ITEM NUMBER	7.4.2	LOCATION	RIGH HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 79342 70486			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate.</p>				
		View of prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-20A1.1		




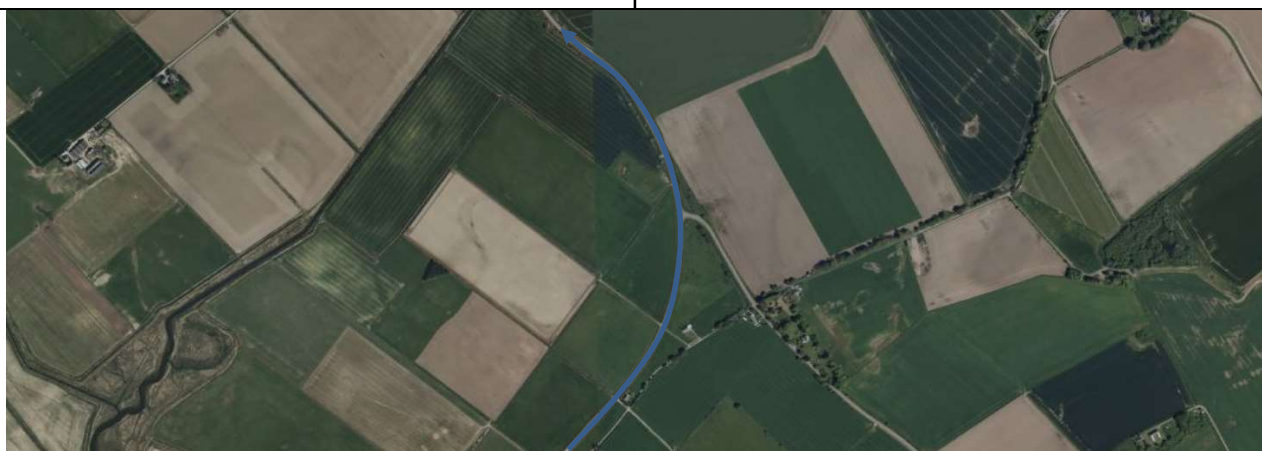
ITEM NUMBER	7.4.3	LOCATION	LEFT HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 79494 70950			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>				
		View of road		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-30A1.1		





ITEM NUMBER	7.4.4	LOCATION	RIGHT HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 79434 71635			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-40A1.1		





ITEM NUMBER	7.4.5	LOCATION	RIGHT HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 79763 72130			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>				
		View of prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-50A1.1		

ITEM NUMBER	7.4.6	LOCATION	LEFT HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 80490 72505			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that tree pruning is required along this section of route to allow the loaded blade to oversail.				
		View of prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-60A1.1		

ITEM NUMBER	7.4.7	LOCATION	RIGHT HAND BEND ON B9175	
DIRECTION	Continue straight at this location			
GRID REFERENCE	NH 80583 72800			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-70A1.1		

ITEM NUMBER	7.4.8	LOCATION	LONG LEFT-HAND BEND ON B9175
DIRECTION	Continue straight at this location		
GRID REFERENCE	NH 81665 74348 - NH 81450 75221		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-80A1.1		

ITEM NUMBER	7.4.9	LOCATION	LEFT HAND BEND ON B9175
DIRECTION	Continue straight at this location		
GRID REFERENCE	NH 81267 75504		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-90A1.1		

ITEM NUMBER	7.4.10	LOCATION	RIGHT HAND BEND ON B9175
DIRECTION	Continue straight at this location		
GRID REFERENCE	NH 81037 75598		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering.</p> <p>Trees along this section of route are required to be pruned back to the road edge to allow blade projections to navigate</p>		 <p>View prior to bend</p>	
 <p>View on bend</p>		 <p>View after bend</p>	
 <p>Aerial View of Location</p>			
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE
RELATED DOCUMENT NUMBERS		Swept path analysis 408561-100A1.1	

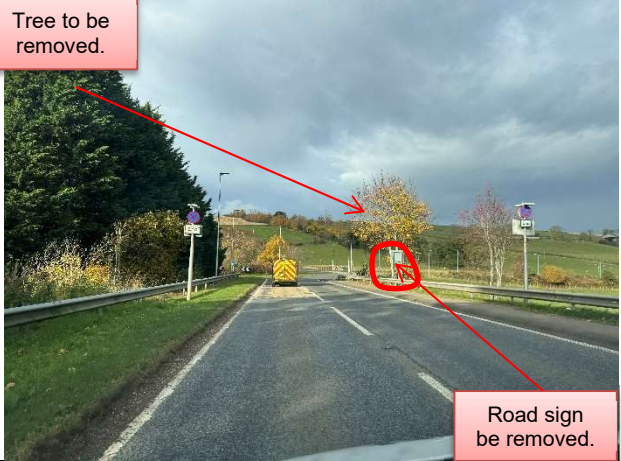
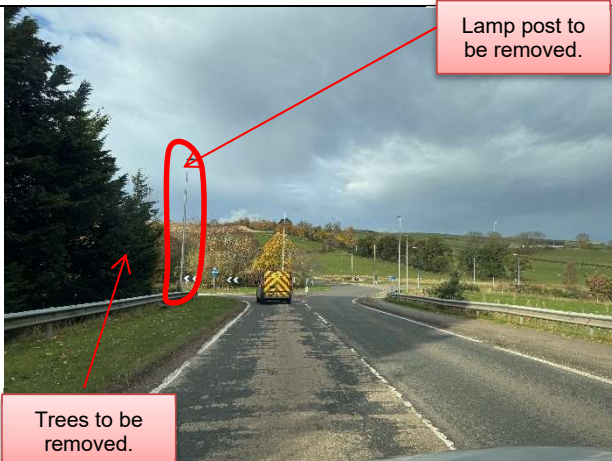



ITEM NUMBER	7.4.11	LOCATION	NIGG RONDBAOUT	
DIRECTION	Take the 1 st exit onto the A9			
GRID REFERENCE	NH 79383 77180			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that road widening is required on the central reservation of the roundabout to prevent the load projections from oversailing third party land.</p> <p>Lamp posts are to be removed on the nearside of the road.</p> <p>Road signs are to be removed on the central reservation of the roundabout.</p> <p>Trees on central reservation are to be pruned to allow the rear projection of the loaded blade to oversail.</p>		<div></div> <p>View prior to roundabout</p>		
<div></div> <p>View on roundabout</p>		<div></div> <p>View after roundabout</p>		
<div></div> <p>Aerial View of Location</p>				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-110A1.1		

7.5. Map extract of survey locations

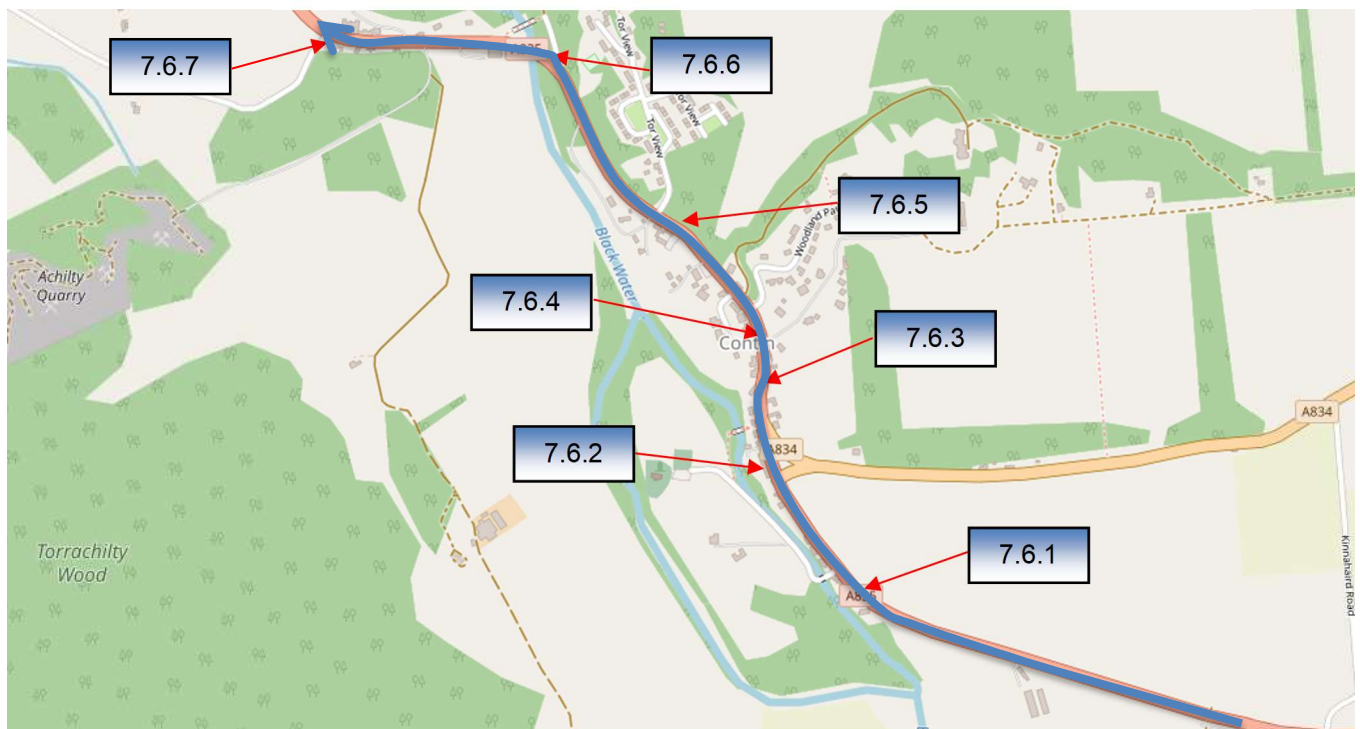






ITEM NUMBER	7.5.1	LOCATION	ARDULLIE ROUNDABOUT	
DIRECTION	Take first exit onto A9			
GRID REFERENCE	NH 58740 62252			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that road widening is required on the central reservation of the roundabout.</p> <p>Lamp post on the nearside of the road at the roundabout's entry is to be removed to allow the blade projections to oversail.</p> <p>The road signs on the roundabout exit are required to be removed.</p> <p>Tree pruning is required on the roundabout to allow the loaded blade to utilise the road widening required.</p>				
		View prior to roundabout		
				
View on roundabout		View after roundabout		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-120A1.1		





ITEM NUMBER	7.5.2	LOCATION	TORE ROUNDABOUT
DIRECTION	Take third exit onto A835		
GRID REFERENCE	NH 60254 52469		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that road widening is required on the roundabout and both entry and exit splitter islands.</p> <p>Splitter islands at the entry and exit of the roundabout are to be cleared of and obstructions.</p> <p>Lamp posts on the central reservation of the roundabout are to be removed.</p> <p>Railing on the offside of the road is to be removed to allow the loaded blade to oversail this location.</p> <p>Tree pruning is required on the roundabout.</p>		 <p>View prior to roundabout</p>	
 <p>View on roundabout</p>		 <p>View after roundabout</p>	
 <p>Aerial View of Location</p>			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-130A1.1		





ITEM NUMBER	7.5.3	LOCATION	MARYBURGH ROUNDABOUT
DIRECTION	Take second exit onto A835		
GRID REFERENCE	NH 54329 56974		
MODIFICATION AND DESCRIPTION	PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that road widening is required on the central reservation of the roundabout.</p> <p>Trees are to be removed on the central reservation of the roundabout and the near and offside of the road to allow the loaded blade to oversail this location.</p> <p>Lamp post on the nearside of the road are to be removed to allow the loaded blade to oversail.</p> <p>Road signs are to be removed on the central reservation of the roundabout, splitter island and on the offside of the road to allow the blade to navigate this location.</p>		<p>Tree to be removed.</p>  <p>Road sign to be removed.</p> <p>View prior to roundabout</p>	
 <p>Lamp post to be removed.</p> <p>Trees to be removed.</p> <p>View prior to roundabout</p>		 <p>Road signs to be removed.</p> <p>Road widening required.</p> <p>Trees are to be pruned.</p> <p>View on roundabout</p>	
 <p>Road signs to be removed.</p> <p>View after roundabout</p>		 <p>Ariel view of location</p>	
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-140A1.1		





7.6. Map extract of survey locations




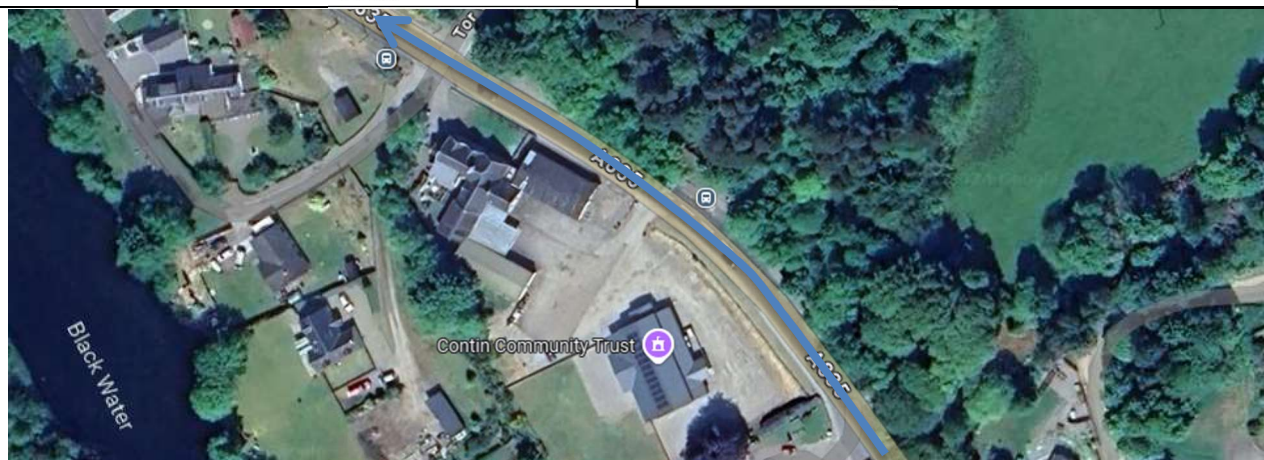





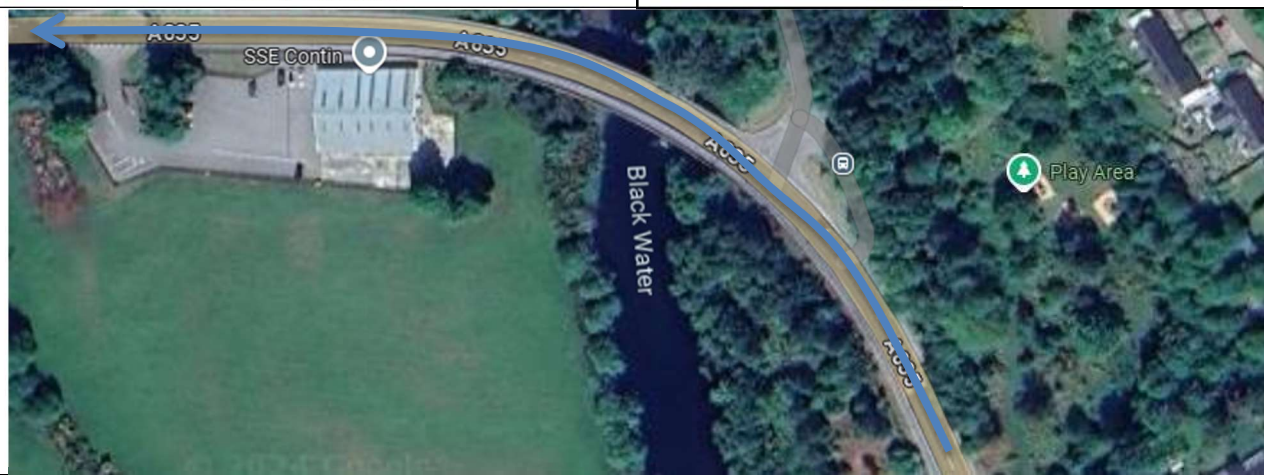
ITEM NUMBER	7.6.1	LOCATION	RIGHT HAND BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 46033 55519		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that Splitter island is to be cleared and levelled.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept Path Analysis
RELATED DOCUMENT NUMBERS	408561-150A1.1		




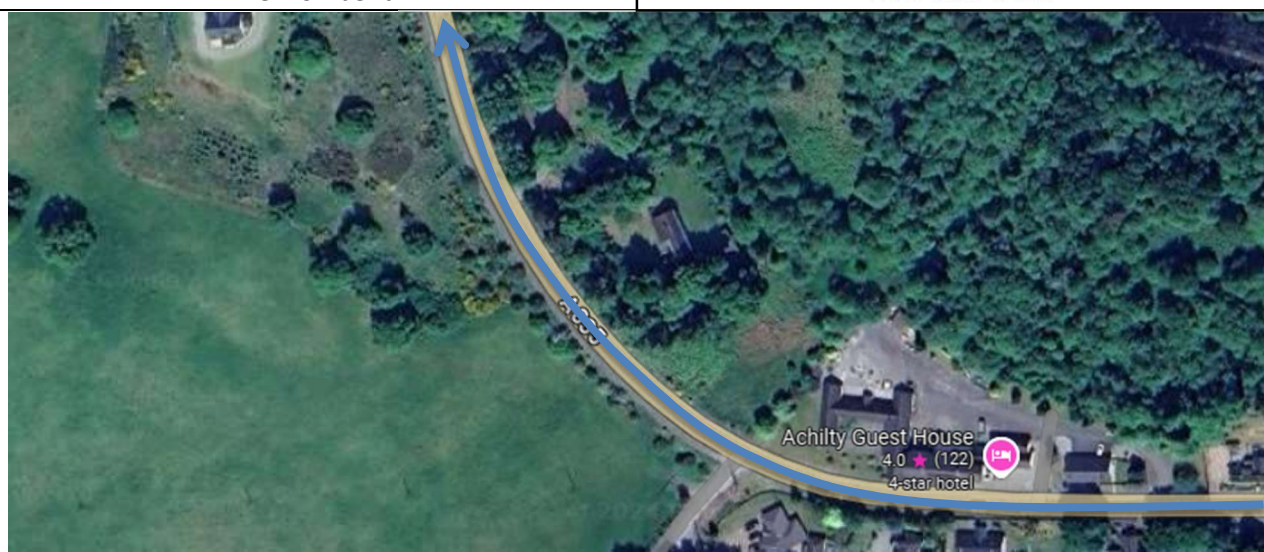
ITEM NUMBER	7.6.2	LOCATION	RIGHT HAND BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 45866 55762		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-160A1.1		

ITEM NUMBER	7.6.3	LOCATION	S-BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 45845 55969		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that third party land is required to prevent the loaded blade colliding with the building on the offside of the road.</p> <p>Road widening is required on the nearside of the road.</p> <p>Fence to be removed on the nearside of the road.</p>			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE
RELATED DOCUMENT NUMBERS		Swept path analysis	
		408561-170A1.1	

ITEM NUMBER	7.6.4	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 45823 56094			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates telegraph pole is to be removed on the offside of the road to allow the rear projection of the loaded blade to oversail.</p> <p>Lamp post to be removed on the offside of the road.</p> <p>Topographical data is recommended at this location due to the close proximity of third party land boundaries.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-180A1.1		


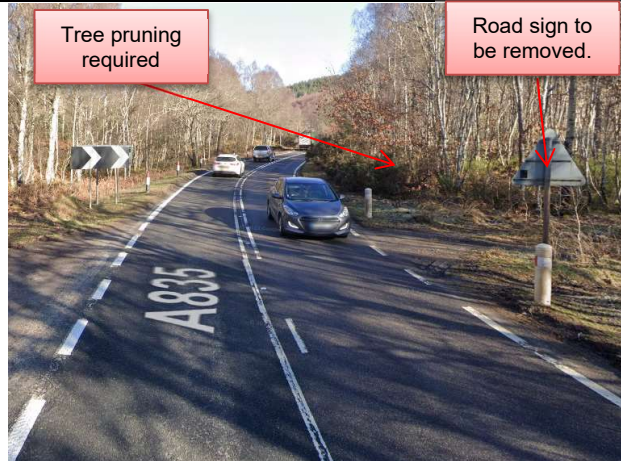

ITEM NUMBER	7.6.5	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 45651 56286			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.</p> <p>Topographical data is recommended at this location due to the close proximity of third party land boundaries.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-190A1.1		

ITEM NUMBER	7.6.6	LOCATION	BRIDGE ON LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 45440 56602			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-200A1.1		




ITEM NUMBER	7.6.7	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 45008 56675			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-210A1.1			

7.7. Map extract of survey locations



ITEM NUMBER	7.7.1	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 44797 57292			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the road sign on the offside of the road is to be removed to allow projections of the loaded blade to oversail this location.</p> <p>Tree pruning is required on both the offside and nearside of the road to allow the loaded blade to navigate this location.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-220A1.1		


ITEM NUMBER	7.7.2	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 44791 57540			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the banking on the nearside of the road is to be cut back to allow the loaded blade to oversail this location.</p> <p>Trees and vegetation are to be removed on both the offside and nearside of the road to allow the blade projections to oversail this location.</p>				
		View prior to bend		
View on bend		View after bend		
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-230A1.1		





ITEM NUMBER	7.7.3	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 43759 58834			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that Trees and vegetation are to be removed on the nearside of the road to allow the loaded blade to oversail this location.</p> <p>Topographical data is recommended to determine the tree boundaries on both sides of the road.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-240A1.1			


7.8. Map extract of survey locations







ITEM NUMBER	7.8.1	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 43559 58811			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates trees on the offside of the road are to be removed to allow the loaded blade to navigate this location.</p> <p>Topographical data is recommended to determine the tree boundaries on both sides of the road.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-250A1.1			

ITEM NUMBER	7.8.2	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 42598 58996			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-260A1.1			


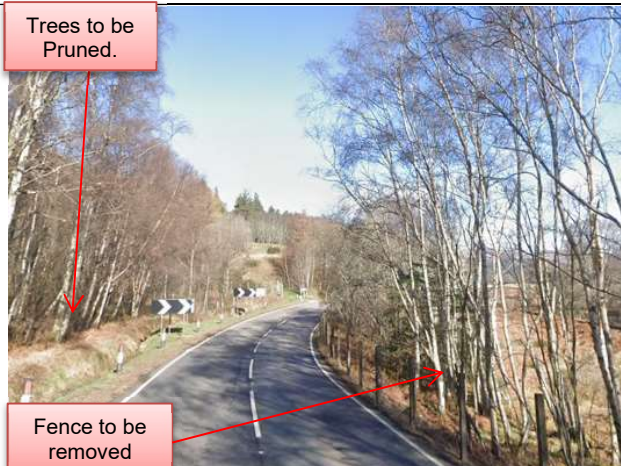


ITEM NUMBER	7.8.3	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 42262 58952			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the road sign on the nearside of the bend is to be removed.</p> <p>Trees on the offside of the bend are to be removed to allow the loaded blade to oversail this location.</p> <p>Trees on the nearside of the bend are to be pruned.</p>				
		View prior to bend		
 <div>Road sign to be removed.</div>				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-270A1.1			





ITEM NUMBER	7.8.4	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 42051 59042			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that banking on the nearside of the bend is to be removed to aloe the projection of the blade to oversail this location.</p> <p>Trees on the nearside of the bend are to be removed.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-280A1.1			




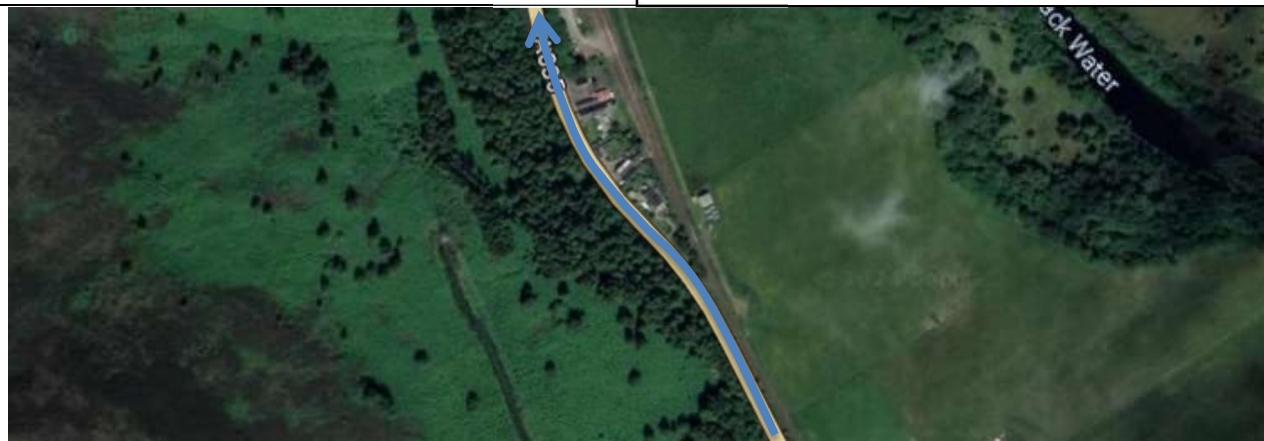
ITEM NUMBER	7.8.5	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 41250 59069			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-290A1.1		




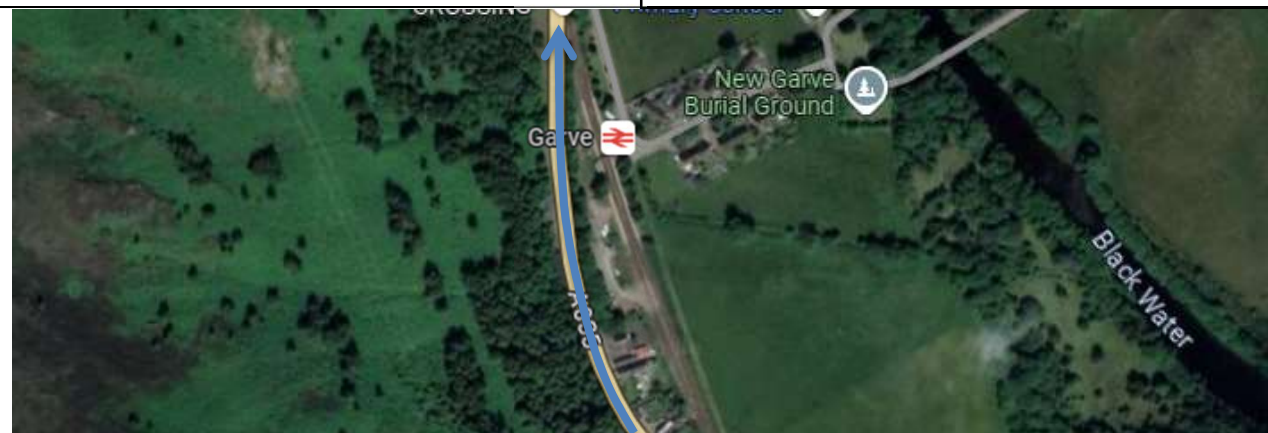
7.9. Map extract of survey locations




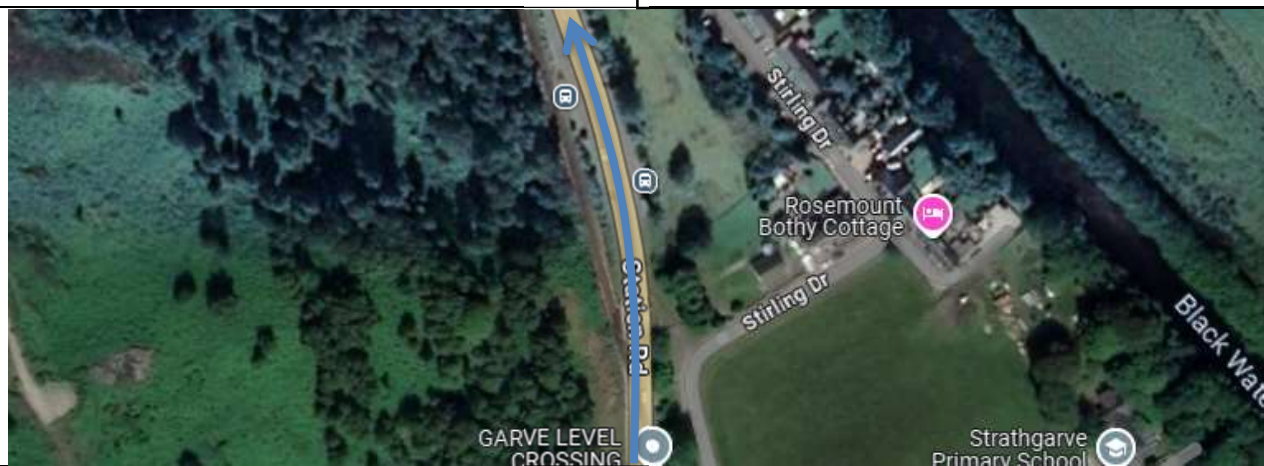



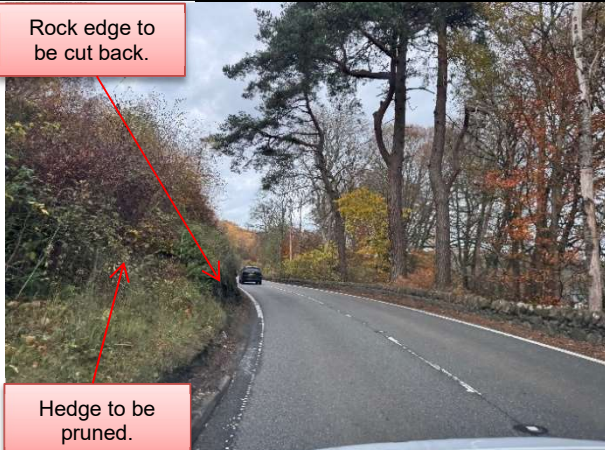


ITEM NUMBER	7.9.1	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39950 60051			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the trees are to be pruned on the offside of the bend to allow loaded blade to oversail.</p> <p>Boundary fence is to be removed to allow the loaded blade to oversail.</p> <p>Topographical data is recommended to determine the fence line and tree boundaries on both sides of the road.</p>				
		View prior to bend		
 <p>Trees to be Pruned.</p> <p>Fence to be removed</p>				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-300A1.1		

ITEM NUMBER	7.9.2	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39911 60412			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-310A1.1		




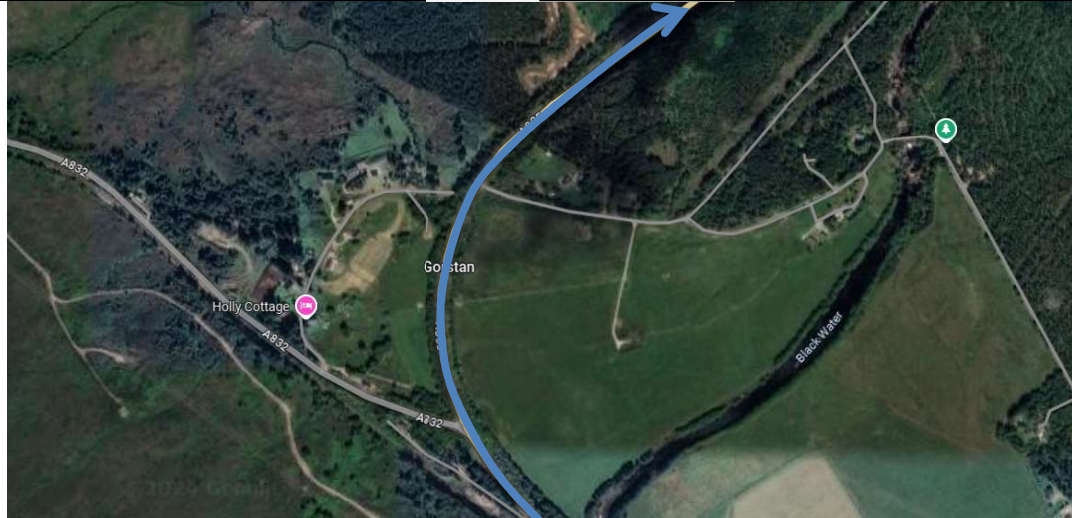
ITEM NUMBER	7.9.3	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39567 61047			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-320A1.1		

ITEM NUMBER	7.9.4	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39473 61405			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-330A1.1		

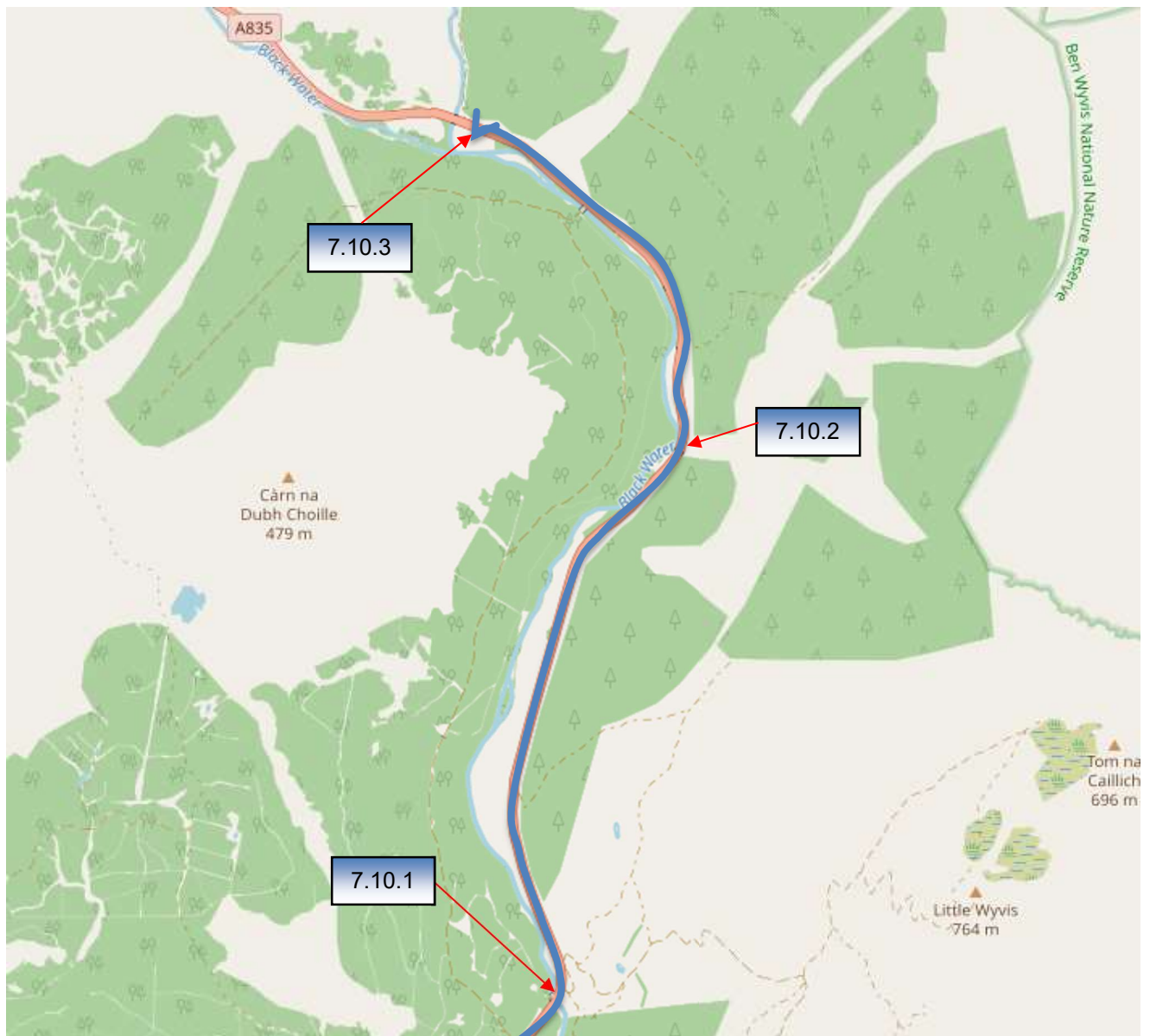
ITEM NUMBER	7.9.5	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39469 61514			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-340A1.1			




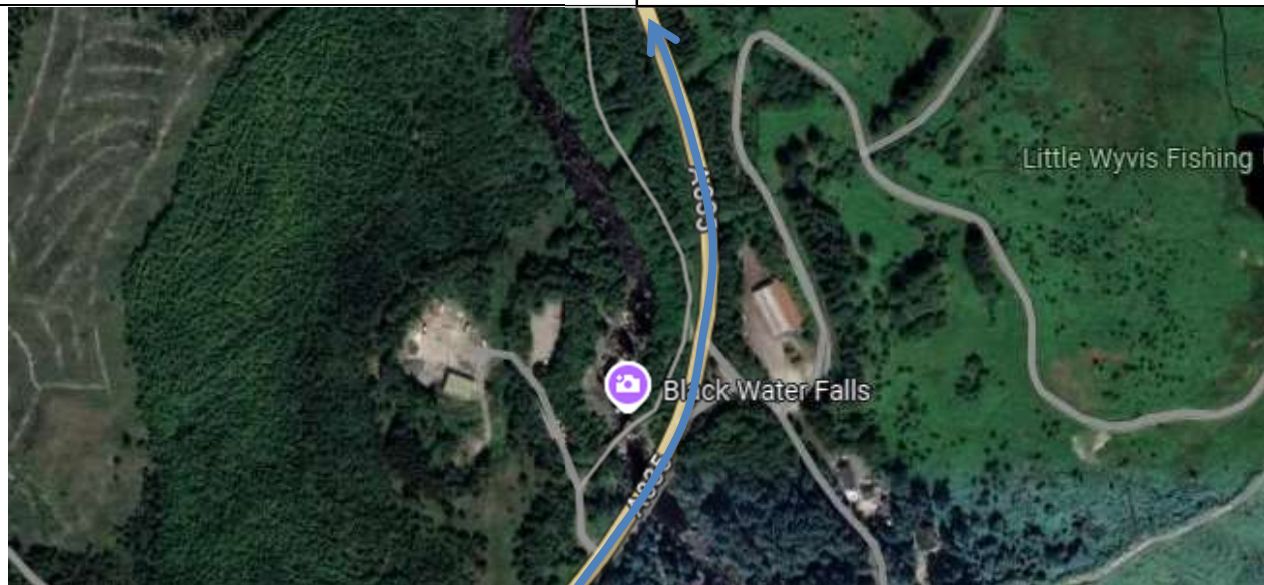
ITEM NUMBER	7.9.6	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39159 62011			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the rock face on the nearside of the bend is required to be cut back – Topographical data is recommended to confirm this.</p> <p>Vegetation pruning is required on the nearside of the bend.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-350A1.1		





ITEM NUMBER	7.9.7	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39152 62115			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the rear projection oversails the land on the offside of the bend - third party ownership to be determined.</p> <p>The location of the banking on the offside is required to be determined.</p> <p>The trees along the offside section of the S bend are required to be removed as indicated.</p> <p>Vegetation pruning is required on the offside of the right hand bend.</p> <p>Topographical data is recommended at this location due to the nature of the modifications.</p>		 <p>Trees to be removed.</p>		
		View prior to bend		
 <p>Trees to be removed.</p>		 <p>Bank to be located.</p> <p>Road signs to be removed.</p>		
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-360A1.1		


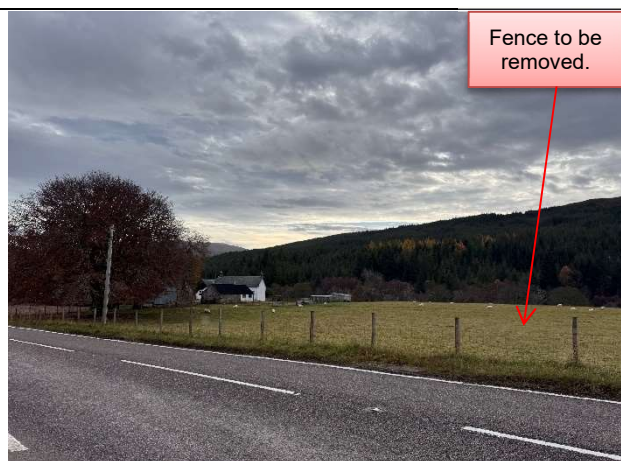
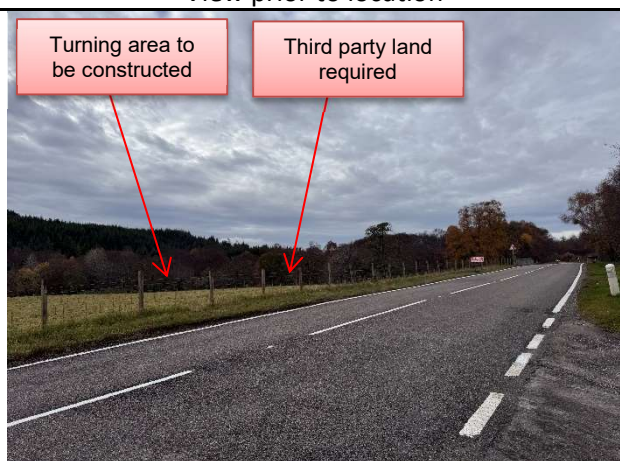
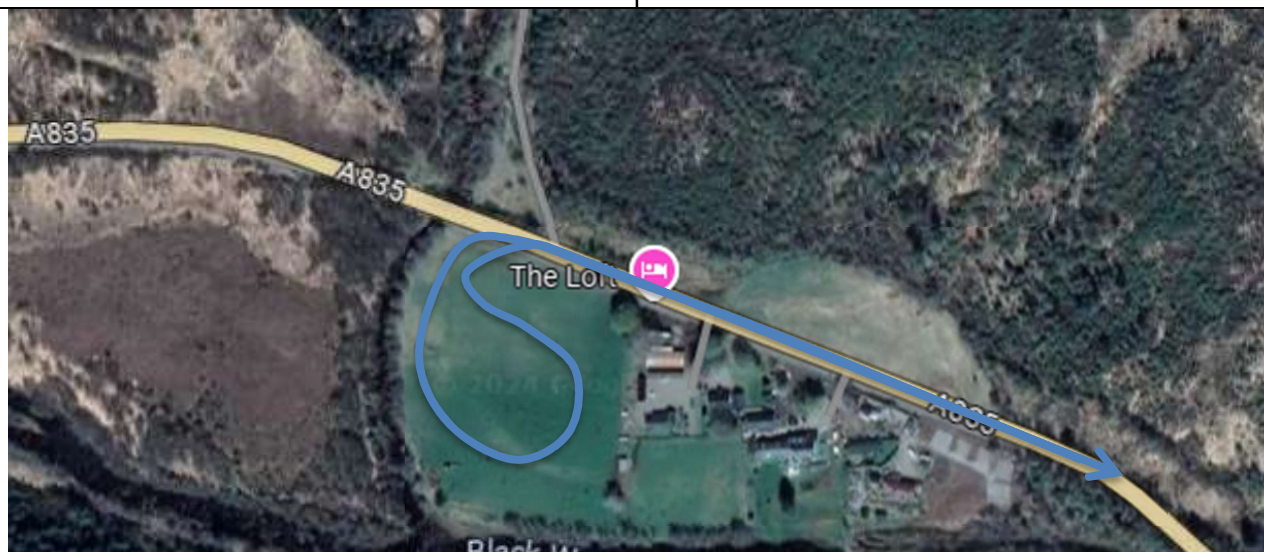
ITEM NUMBER	7.9.8	LOCATION	LONG RIGHT HAND BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 38885 62441		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-370A1.1		

7.10. Map extract of survey locations

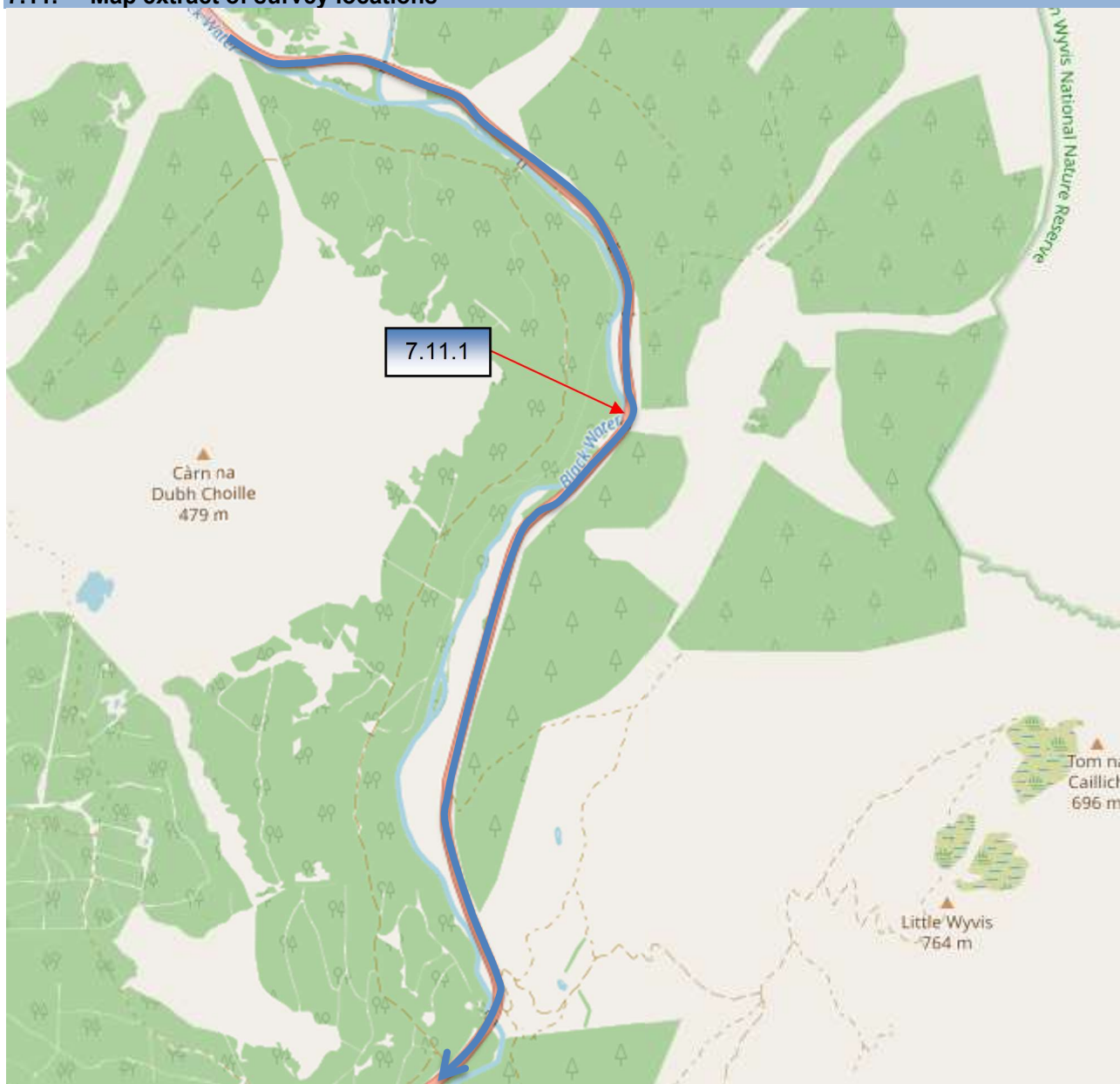






ITEM NUMBER	7.10.1	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 40303 63989			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-380A1.1		

ITEM NUMBER	7.10.2	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 41199 67387			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Swept path analysis indicates that the trees on the nearside of the bend are to be removed to allow the loaded blade to oversail.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-390A1.1		

ITEM NUMBER	7.10.3	LOCATION	PROPOSED TURNING AREA ON A835	
DIRECTION	Continue on A835 to proposed turning area			
GRID REFERENCE	NH 39891 69417			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that third party land is required for the blade to access the proposed turning area.</p> <p>A suitable turning area is required to be constructed as per the SPA drawing.</p> <p>The fence and telegraph pole are required to be removed as indicated.</p>				
		View prior to location		
				
View at location		View after location		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis	
RELATED DOCUMENT NUMBERS	408561-400A1.1			

7.11. Map extract of survey locations



ITEM NUMBER	7.11.1	LOCATION	RIGHT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 41199 67387			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the loaded vehicle will navigate this location utilising manual steering.</p> <p>The tree pruning required for the north route will cater for the southern route.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-410A1.1		

8. Route B Assessment

8.1.

Route B

Start Location	Port Of Invergordon	Distance of Route	Km	Miles
Via:	B817/Academy RD/A9		5.6	3.5
<ul style="list-style-type: none">• Turn right onto B817.• Continue on B817 to junction with unclassified road• At junction turn left onto unclassified road• Continue on unclassified road to junction with Academy Road• At junction turn right onto Academy Road• Continue on Academy Road to Junction with A9• At junction turn left onto A9• Continue as per Route A				




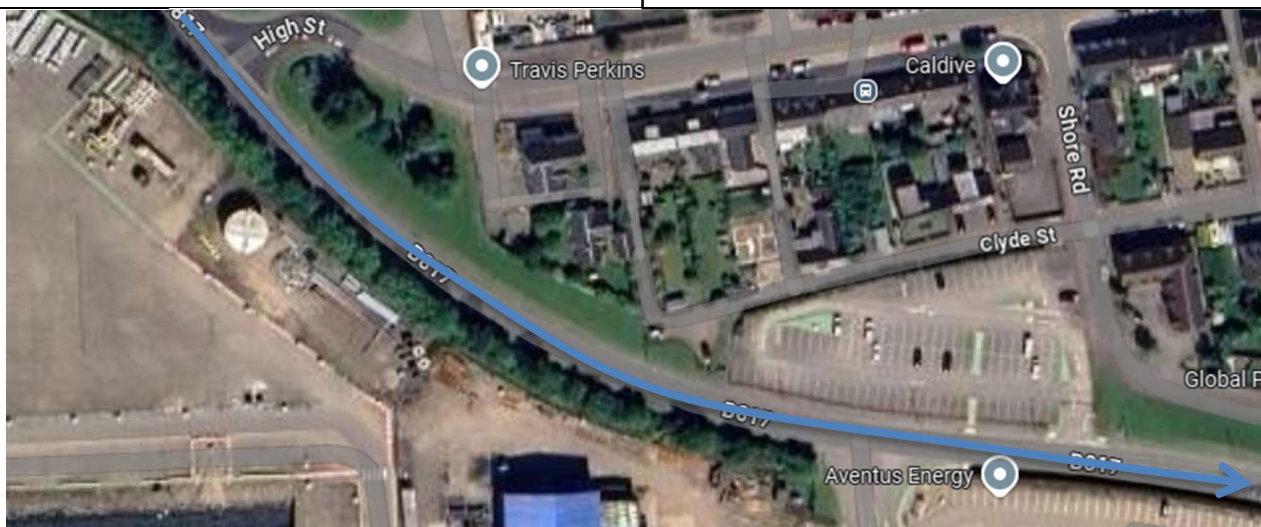
8.2. Map Overview










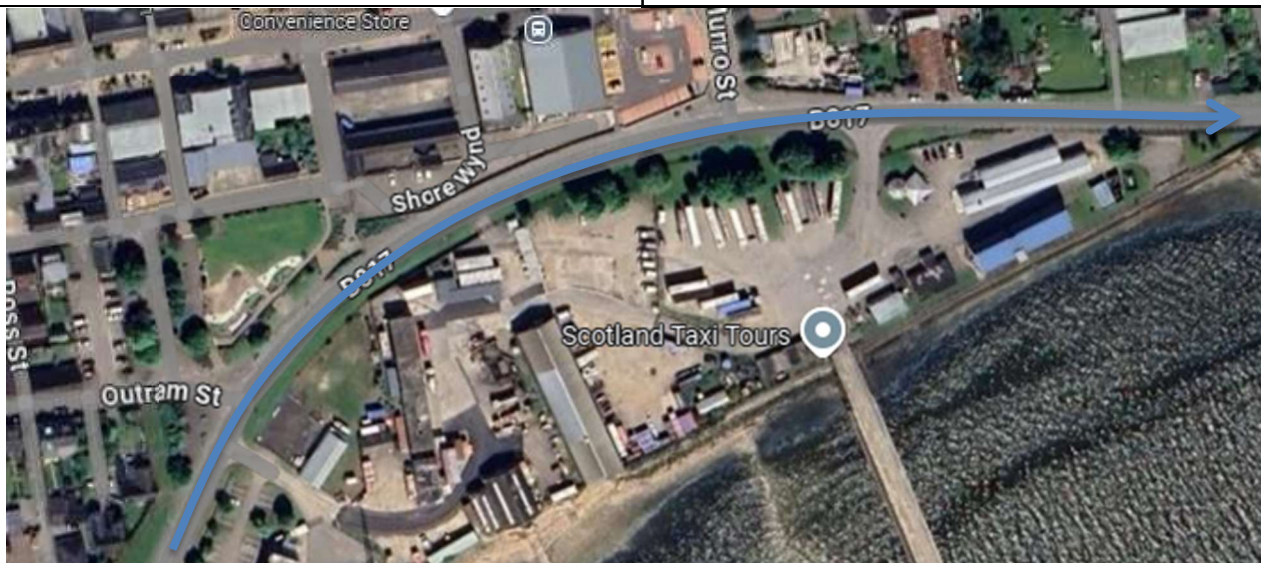
8.3. Map extract of survey locations




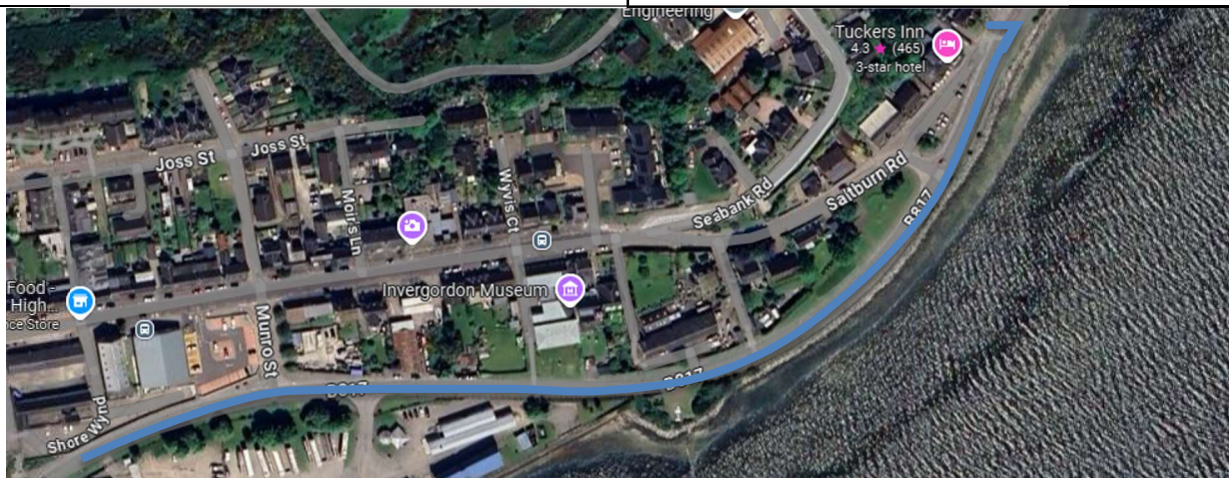





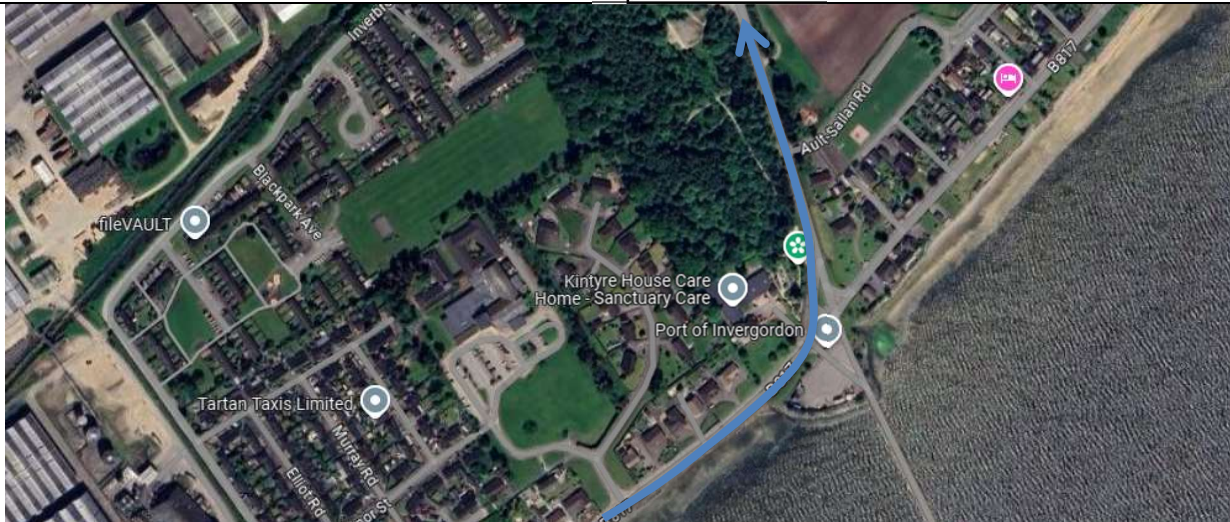
ITEM NUMBER	8.3.1	LOCATION	PORT EXIT / B817 JUNCTION	
DIRECTION	Eit port onto B817			
GRID REFERENCE	NH 70216 68637			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the dock exit is required to be upgraded to allow the loaded vehicles to navigate out of the docks successfully.</p> <p>Road widening is required on the offside of the junction.</p> <p>The areas within the dock and on either side of the junction are required to be kept clear.</p>		 <p>View prior to exit</p>		
 <p>View at exit</p>		 <p>View after exit</p>		
 <p>Aerial View of Location</p>				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-500A1.1		





ITEM NUMBER	8.3.2	LOCATION	LEFT HAND BEND ON B817
DIRECTION	Continue on B817		
GRID REFERENCE	NH 70398 68469		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-510A1.1		

ITEM NUMBER	8.3.3	LOCATION	LEFT HAND BEND ON B817	
DIRECTION	Continue on B817			
GRID REFERENCE	NH 70800 68347			
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that the traffic lights on both sides of the road are to be removed to allow the blade to oversail.</p> <p>The 8 bollards on the nearside are required to be removed.</p> <p>The plant pots on the nearside are required to be relocated.</p>				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-520A1.1		

ITEM NUMBER	8.3.4	LOCATION	RIGHT HAND BEND ON B817
DIRECTION	Continue on B817		
GRID REFERENCE	NH 70931 68498		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-530A1.1		

ITEM NUMBER	8.3.5	LOCATION	LEFT HAND BEND ON B817
DIRECTION	Continue on B817		
GRID REFERENCE	NH 71377 68608		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-540A1.1		

ITEM NUMBER	8.3.6	LOCATION	B817 / UNCLASSIFIED ROAD JUNCTION
DIRECTION	At junction turn left onto unclassified road		
GRID REFERENCE	NH 72124 69415		
MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION	
Swept path analysis indicates that the lamp post and traffic light on the splitter islands are required to be removed to allow the trailer body to oversail.			
		View prior to bend	
			
View on bend		View after bend	
			
Aerial View of Location			
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE
RELATED DOCUMENT NUMBERS		Swept path analysis	
		408561-550A1.1	

ITEM NUMBER	8.3.7	LOCATION	LEFT HAND BEND ON B817	
DIRECTION	Continue on unclassified road			
GRID REFERENCE	NH 71875 69953			
MODIFICATION AND DESCRIPTION		HOTOGRAPH OF LOCATION		
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				
		View prior to bend		
				
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-560A1.1		

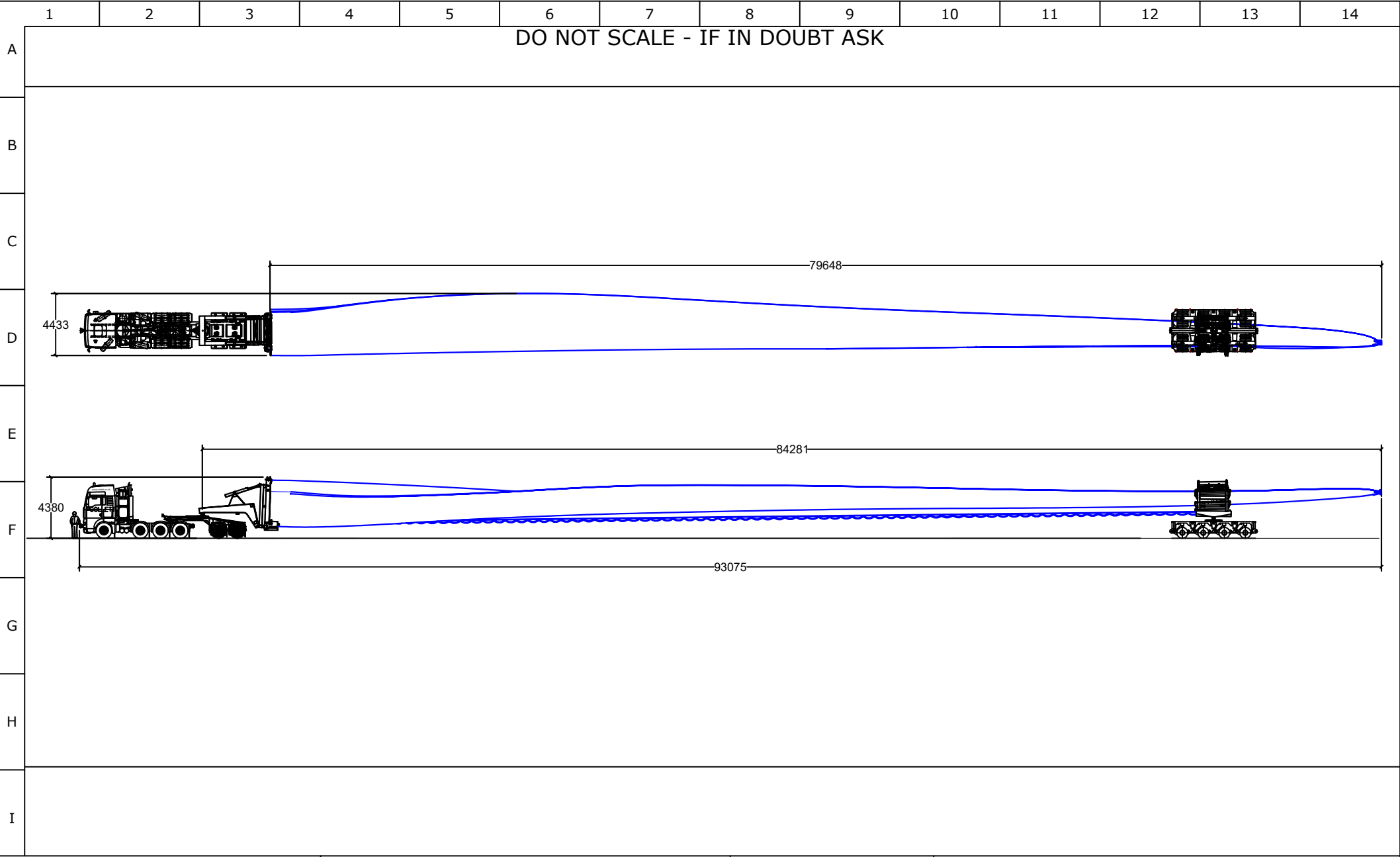
ITEM NUMBER	8.3.8	LOCATION	UNCLASSIFEID ROAD / ACADEMY ROAD JUNCTION	
DIRECTION	At junction turn right onto Academy Road			
GRID REFERENCE	NH 70723 69799			
MODIFICATION AND DESCRIPTION		HOTOGRAPH OF LOCATION		
<p>Swept path analysis indicates that third party land is required to stop the loaded blade from colliding with the electric poles.</p> <p>Road widening is required as indicated by the red hatching.</p> <p>Lamp post is to be removed on the nearside of the bend.</p> <p>Trees are to be removed as indicated required to be removed.</p> <p>Boundary fence is to be removed.</p> <p>The sign post on the nearside is required to be removed.</p>				
		<p>View prior to bend</p> 		
View on bend		View after bend		
				
Aerial View of Location				
FURTHER INVESTIGATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS		408561-570A1.1		

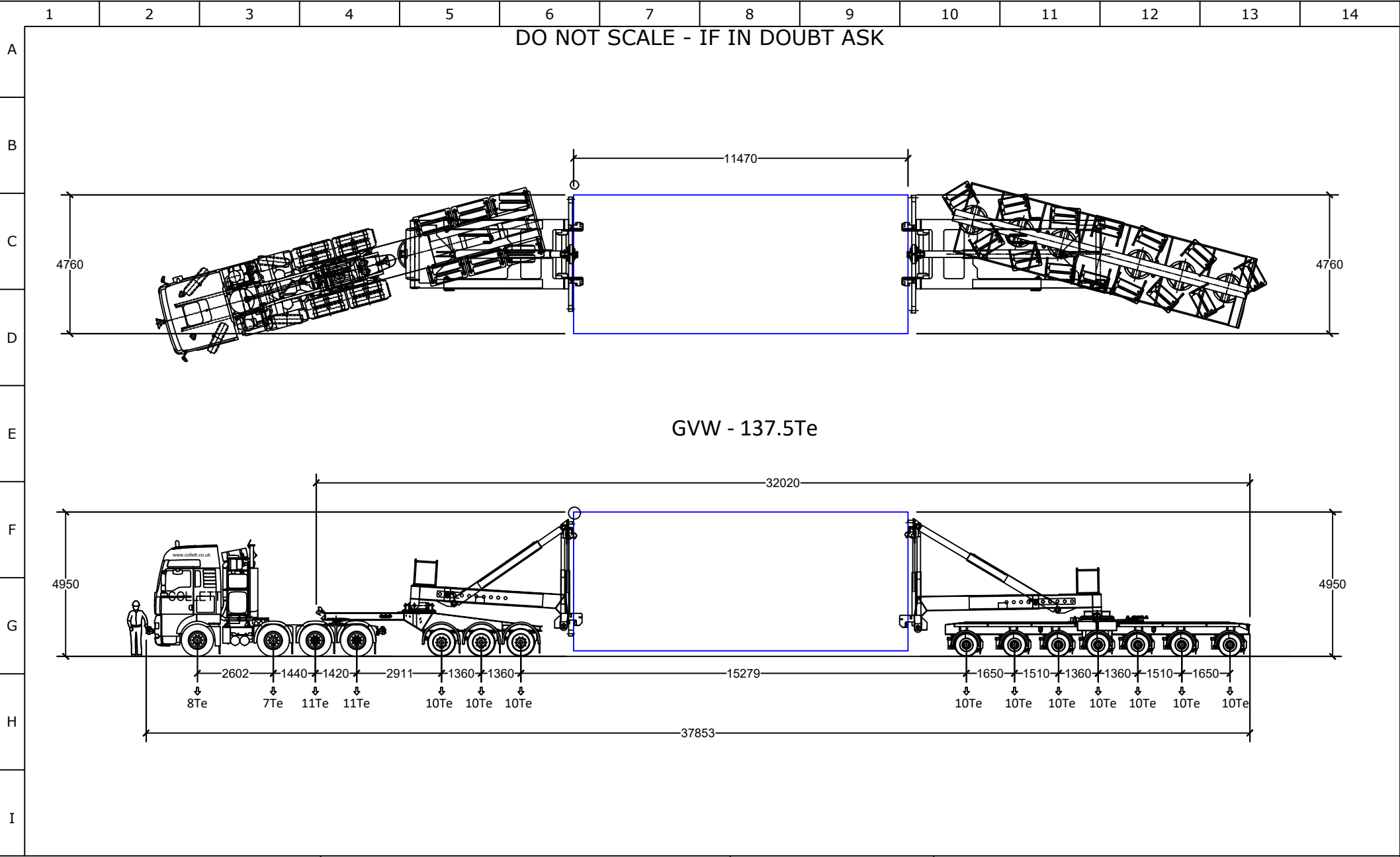
ITEM NUMBER	8.3.9	LOCATION	ACADEMY ROAD / A9 JUNCTION
DIRECTION	At junction turn left onto A9		
GRID REFERENCE	NH 70074 70903		
MODIFICATION AND DESCRIPTION		HOTOGRAPH OF LOCATION	
<p>Swept path analysis indicates that oversailing third party land is required.</p> <p>Trees are to be removed on the nearside of the road to allow the loaded blades projections to oversail.</p> <p>Road sign on the offside and nearside of the road is to be removed to allow the rear projection of the blade to oversail this location.</p>		 <p>View prior to junction</p>	
 <p>View at junction</p>		 <p>View after junction</p>	
 <p>Aerial View of Location</p>			
FURTHER INVESTIGATION UNDERTAKEN?	YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS	408561-580A1.1		

9. Important Notes

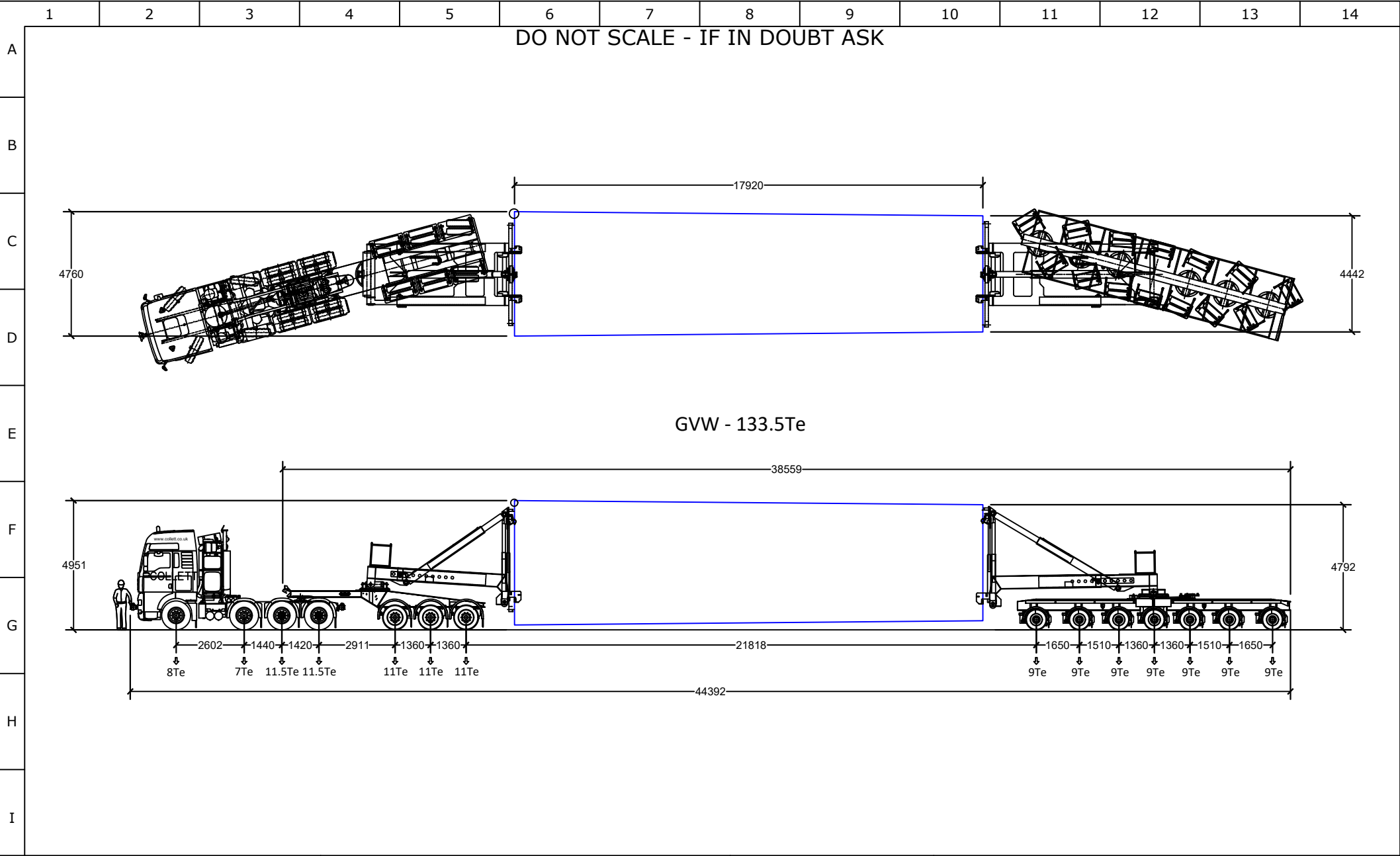
- 9.1. The recommendations in this report are made from a purely transport orientated view, and do not consider any political issues in terms of land ownership, or any other precincts raised that may otherwise be restrictive.
- 9.2. The information contained in this report is privileged and confidential and is for the exclusive use of the client nominated herein.
- 9.3. A Police escort or pilot car will be required in order to assist with traffic control for the entire route surveyed.
- 9.4. Permits will be required for the movement of all loads. These permits are at the discretion of the Highways Agency (H.A). Therefore, approval of these permits by the H.A is a major consideration before any movements can be undertaken.
- 9.5. It is recommended to have adequate warning signs implemented to warn other road users at critical points.
- 9.6. All hedges, shrubs, bushes, trees and overhanging branches along the nominated routes must be trimmed to allow a suitable minimum envelope.
- 9.7. All street furniture, signage etc. along the nominated route must be removed to allow a suitable minimum envelope on the road. Other specific street furniture has been nominated in this report to facilitate over-sailed and swept areas.
- 9.8. The turbine manufactures transport guidance notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this.
- 9.9. In areas where land take or road widening is required, the road construction must be formed to the minimum specification suitable for the transfer of axle loadings up to 16Te, the road construction must be formed to the minimum specification contained in the selected manufacturers transport and erection guidance notes.
- 9.10. Overhead utility cables have not been measured as part of this survey and correspondence with the utility companies regarding cable heights and possible remedial solutions should be undertaken prior to any delivery.
- 9.11. It should be noted that all assessments and inspections have been done so with the intention of producing information to highlight anticipated problems. This includes highlighting of potential land take requirements, possible street furniture implications, and highway alignment issues.
- 9.12. Land take is usually referred to when land is required from private land owners; road widening is usually referred to when land is required within highways boundaries. However, the details of the nominated land take and road widening contained in this report are highlighting the expected areas of concern, and can only be confirmed by swept path analysis. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- 9.13. All inspections and assessments are made for the road movement of loaded trailer equipment carrying specific storage tank components. These dimensions are based on the turning circles and specification of Collett & Sons trailer equipment.
- 9.14. All route inspections and assessments, and subsequent conclusions and recommendations are deemed accurate by Collett & Sons Limited at the date that this report is created. We cannot be held responsible for the development of future road schemes or alterations to the routes surveyed that may leave this report inaccurate.
- 9.15. This report is based solely on a preliminary visual inspection. Nothing in this report shall be construed in any way as committing Collett & Sons Limited to being able to deliver to site using this route before further structural analysis has been undertaken, and any accommodation/remedial works undertaken which are to Collett & Sons satisfaction
- 9.16. Please note that the loaded configurations for the N149 Middle tower 2 and Top tower sections are loaded in the step frame configurations. This results in the loaded height exceeding 5m. Collett have been advised that there will be a height clearance on the route of 6m, once modifications have taken place. It should be noted that additional tree pruning will be required, where the blade component is at 0 degrees, to provide a sufficient clearance envelope for these over height loads.

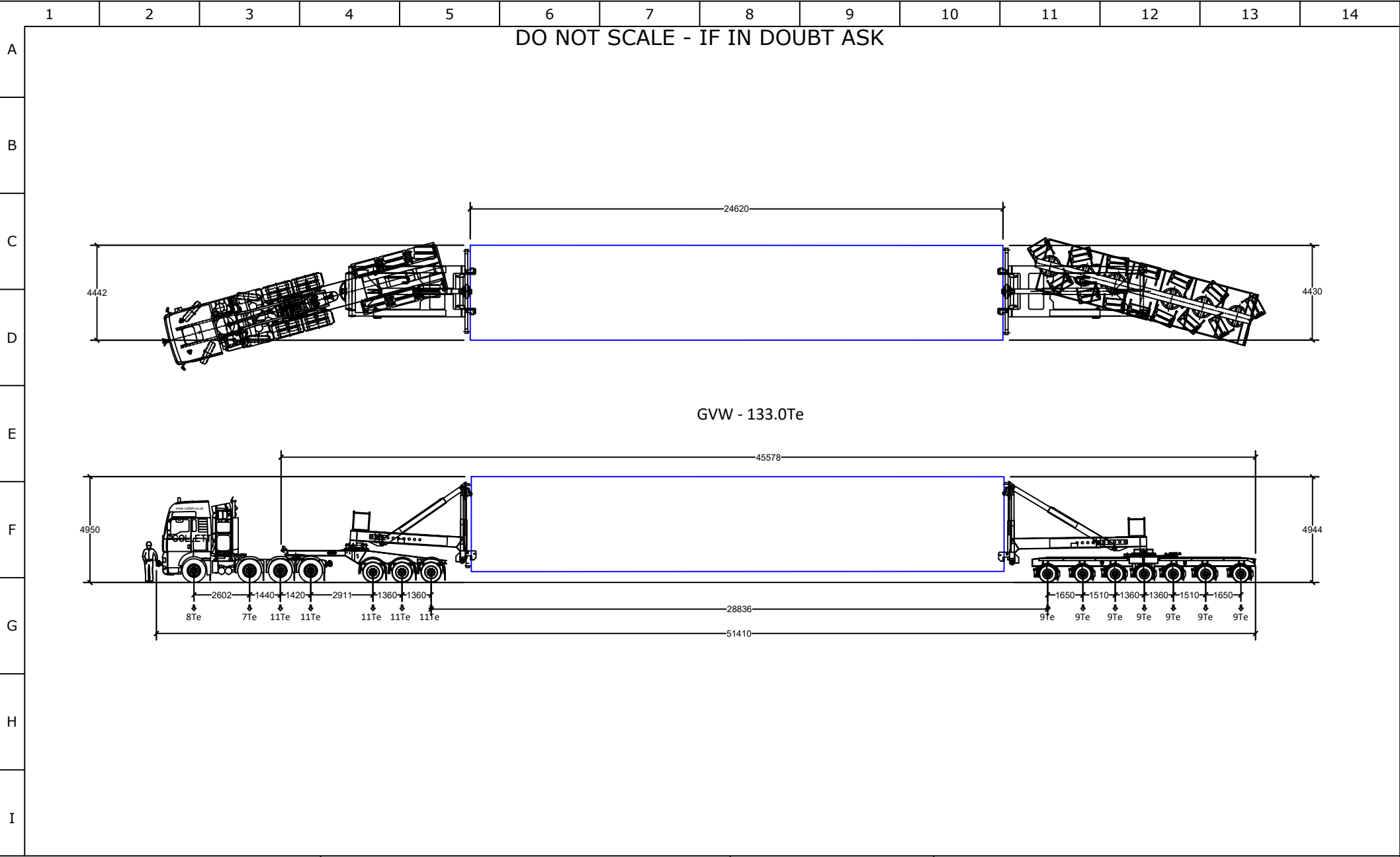
APPENDIX 1 LOADED CONFIGURATION DRAWINGS

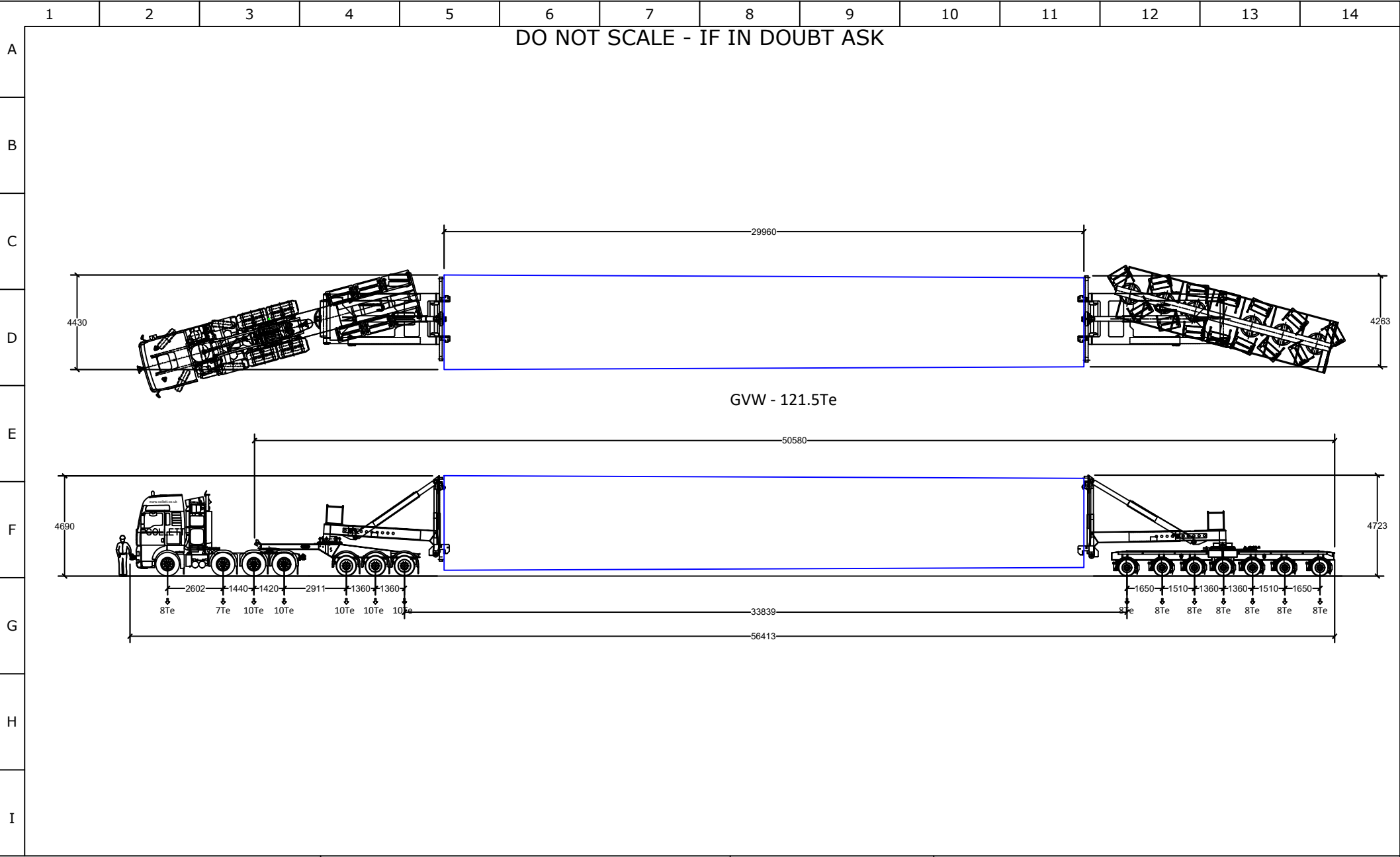


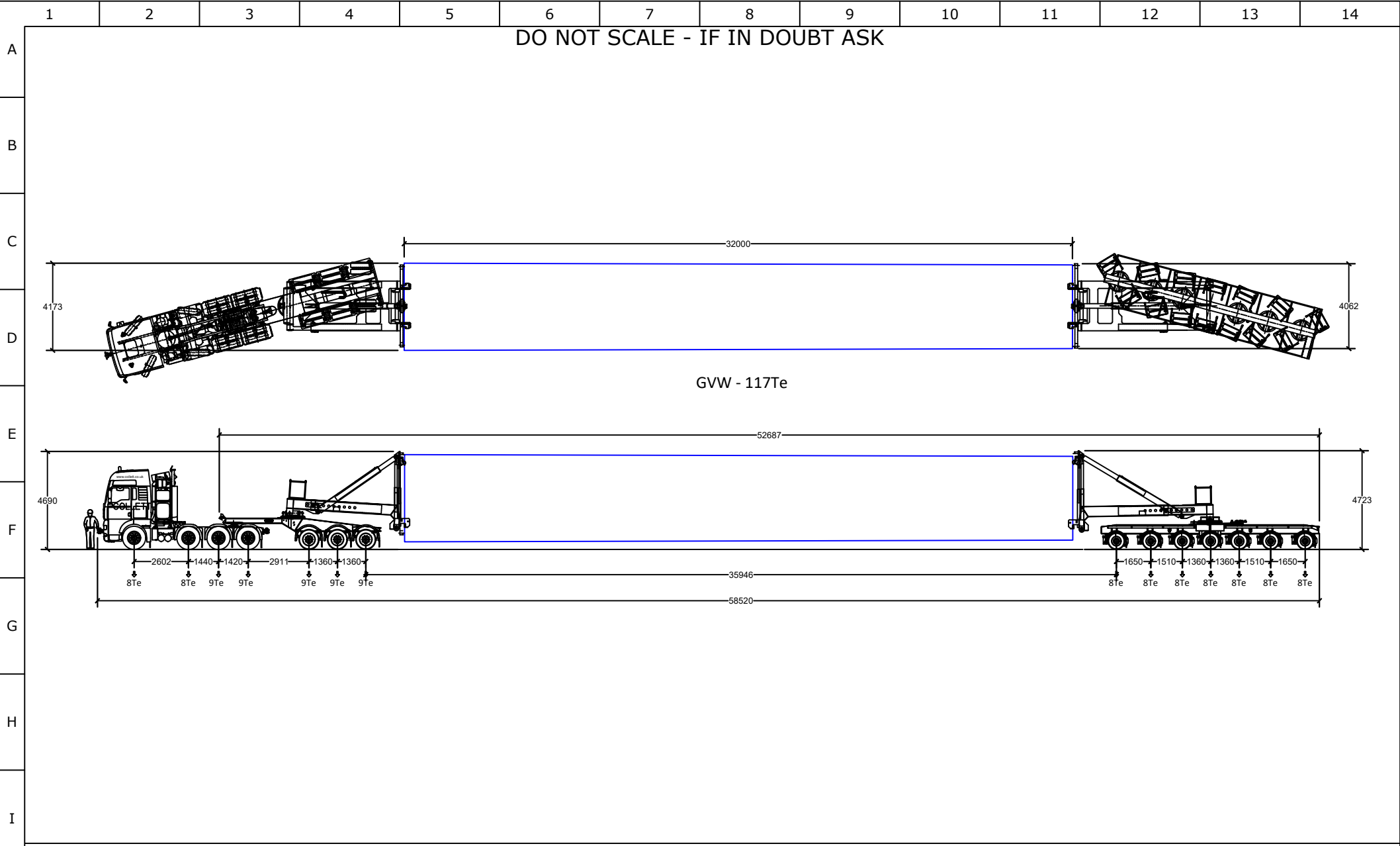


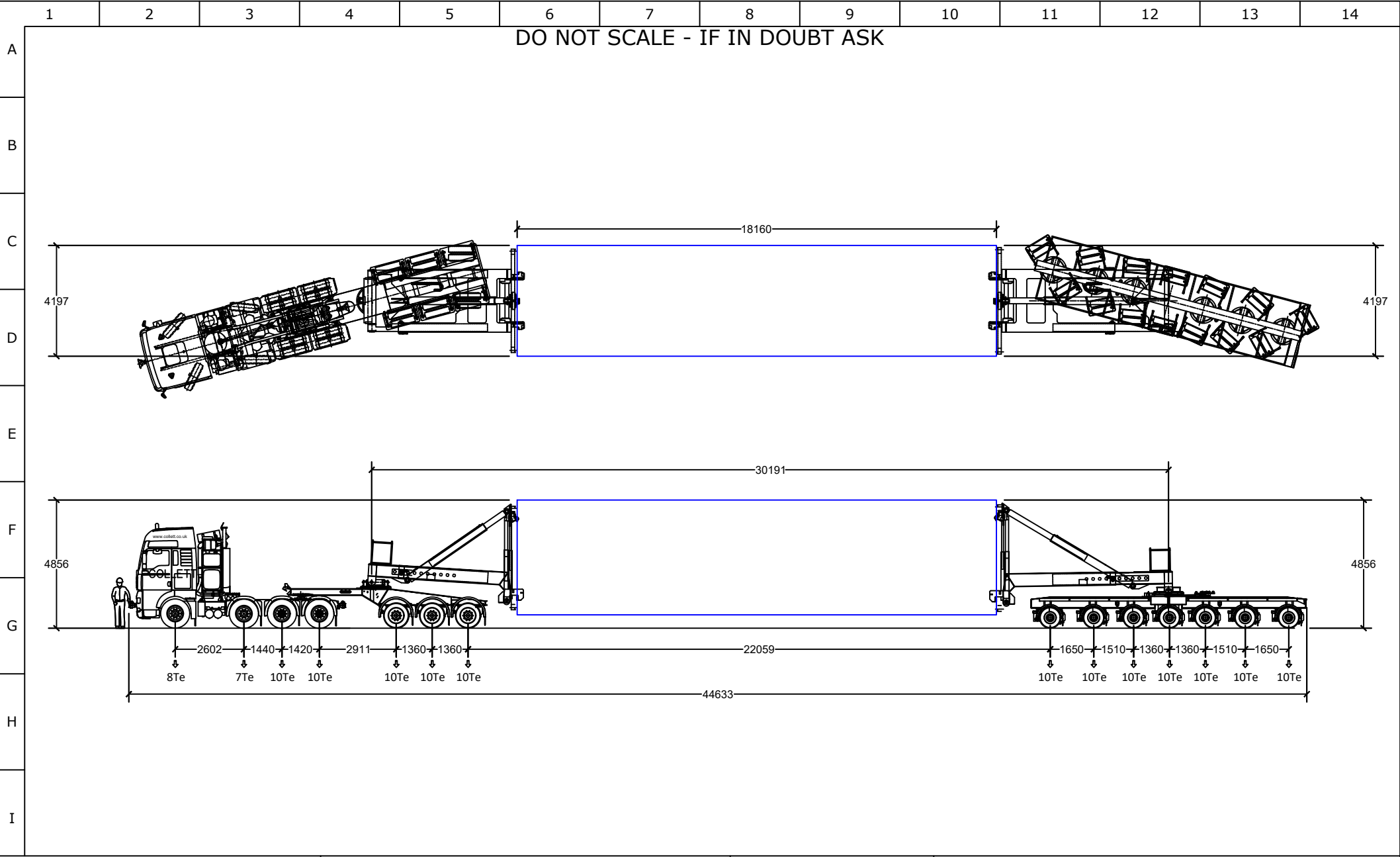
<div>COLLETT</div> <div>EXPERTS IN MOTION</div>	COLLETT & SONS LIMITED		DRAWN		TITLE	
	Victoria TerminalTEL: +44(0)8456 255288		A.COOKIE		V162 - BOTTOM TOWER	
	Albert Road FAX: +44(0)8456 255244		DATE		SITE	
	Halifax, HX2 0DF WEB: www.collett.co.uk		06/03/2025		CARN FEARNA	
			SCALE	SIZE	CUSTOMER	
			NTS	A4	STATKRAFT	
					DRG No. 408561 - B	



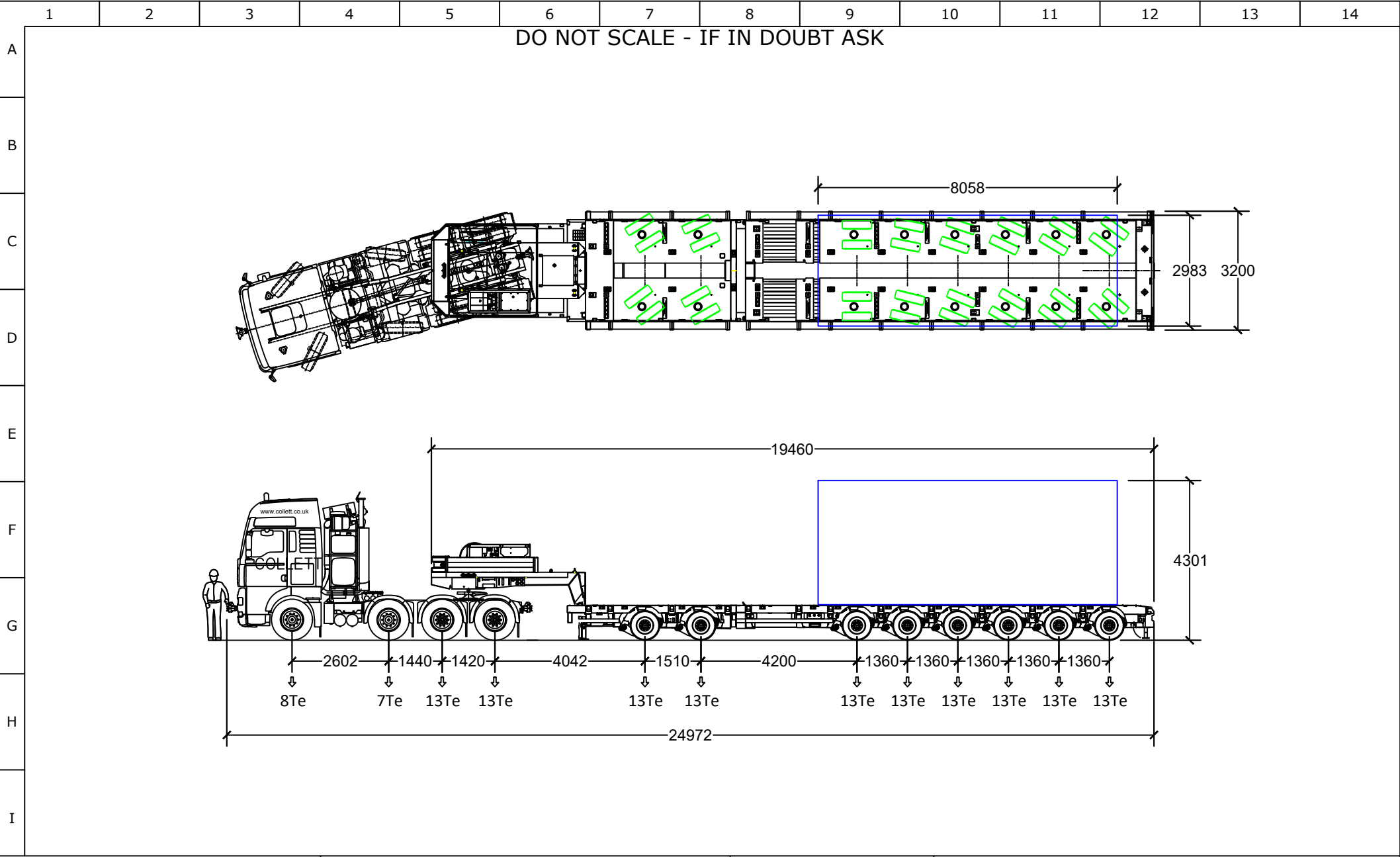




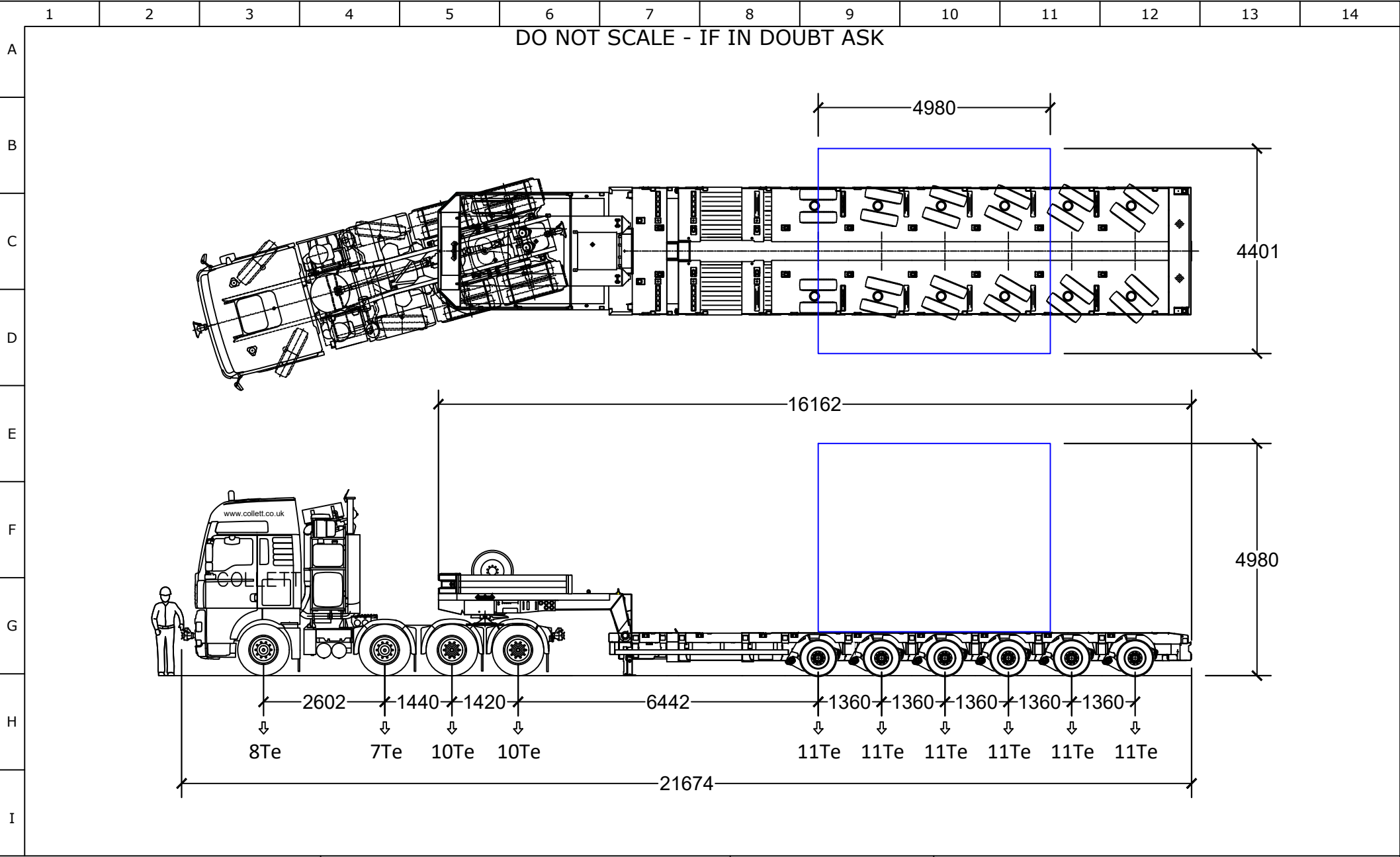




<div>COLLETT</div> <div>EXPERTS IN MOTION</div>	COLLETT & SONS LIMITED Victoria Terminal Albert Road Halifax, HX2 0DF TEL: +44(0)8456 255288 FAX: +44(0)8456 255244 WEB: www.collett.co.uk		DRAWN		A.COOKIE		TITLE		V162 - NACELLE	
			DATE		06/03/2025		SITE		CARN FEARNA	
			SCALE		NTS		SIZE		A4	
			CUSTOMER		STATKRAFT		DRG No.		408561 - G	

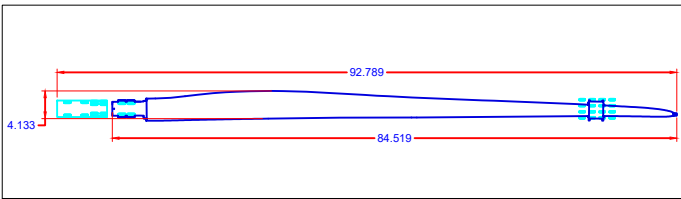


<div>COLLETT</div> <div>EXPERTS IN MOTION</div>	COLLETT & SONS LIMITED		DRAWN		TITLE	
	Victoria TerminalTEL: +44(0)8456 255288		DATE		V162 - DRIVE TRAIN	
	Albert Road FAX: +44(0)8456 255244		06/03/2025		SITE	
	Halifax, HX2 0DF WEB: www.collett.co.uk		SCALE		CARN FEARNA	
			NTS	SIZE	CUSTOMER	DRG No.
				A4	STATKRAFT	408561 - H



COLLETT EXPERTS IN MOTION	COLLETT & SONS LIMITED		DRAWN		TITLE	
	Victoria TerminalTEL: +44(0)8456 255288		A.COOKIE		V162 - HUB	
	Albert Road FAX: +44(0)8456 255244		DATE		SITE	
	Halifax, HX2 0DF WEB: www.collett.co.uk		06/03/2025		CARN FEARNA	
	SCALE	NTS	SIZE	A4	CUSTOMER	STATKRAFT
						DRG No. 408561 - I

APPENDIX 2 SWEPT PATH ANALYSIS DRAWINGS



Swept Path indicates trailer utilising
AUTOMATIC steering

Vestas
V162 Blade Component
Superwing carrier




Exit the Port of Nigg onto the B9175.

****Caution****

- Area to be upgraded and tree location to be confirmed.

UK Grid Reference: NH 79375 70031

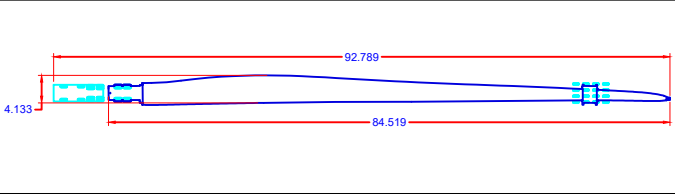
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



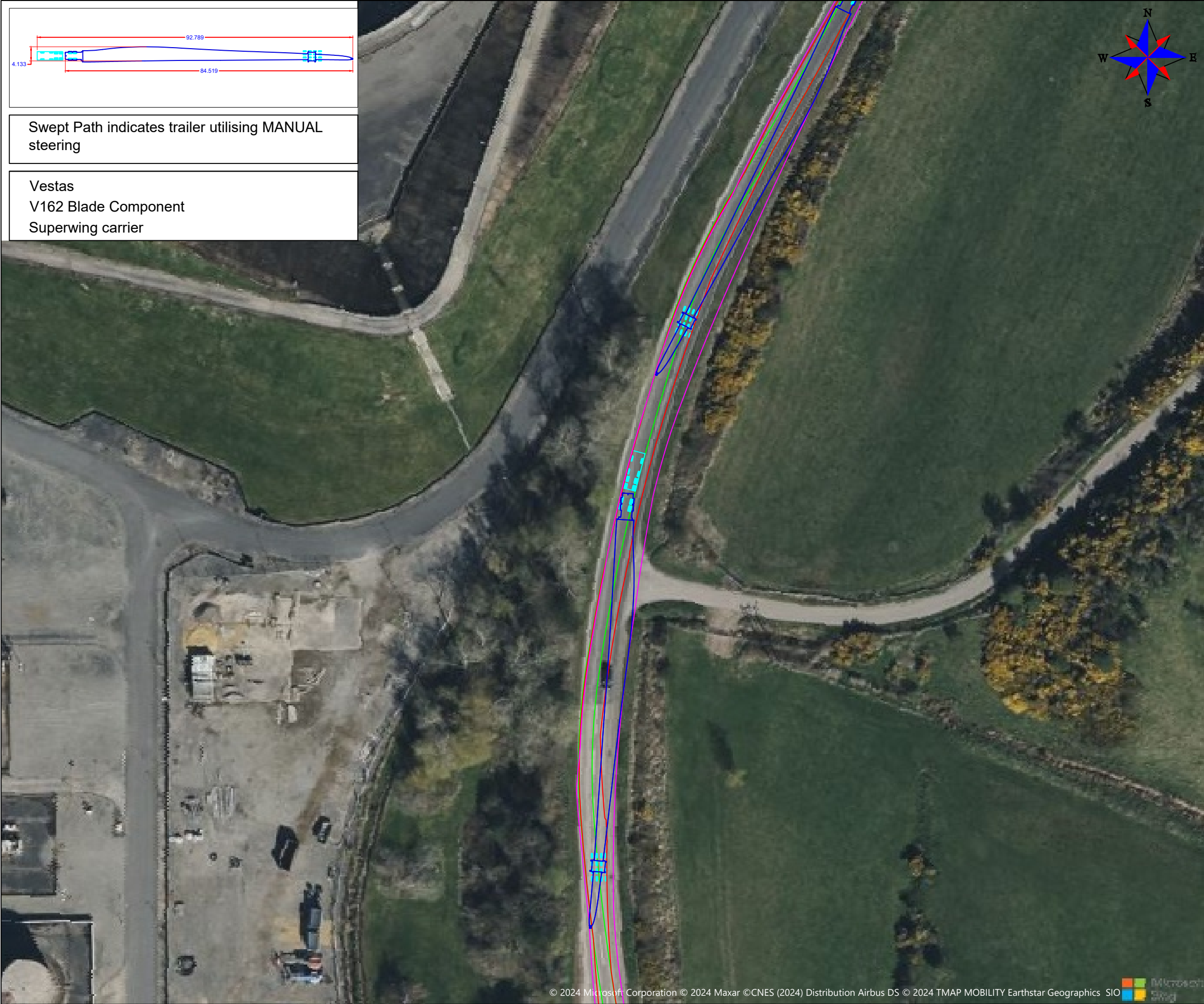
COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE NIGG PORT EXIT			
DATE	24/02/2025	MAPPING	AERIAL MAPPING	CUSTOMER	STATKRAT UK LTD
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARNA WIND FARM	DWG. NO.	408561-10A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier





Continue on the B9175 towards the A9.

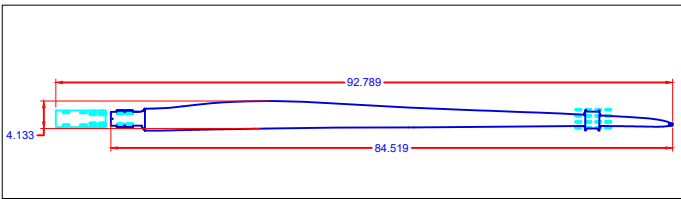
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

- UK Grid Reference: NH 79342 70486
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
 - The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
 - All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
 - This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
 - Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
 - Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
 - Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
 - In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
 - The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
 - The information is privileged and confidential and is for the exclusive use of the nominated client.
 - All dimensions in meters
 - © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

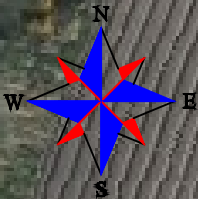
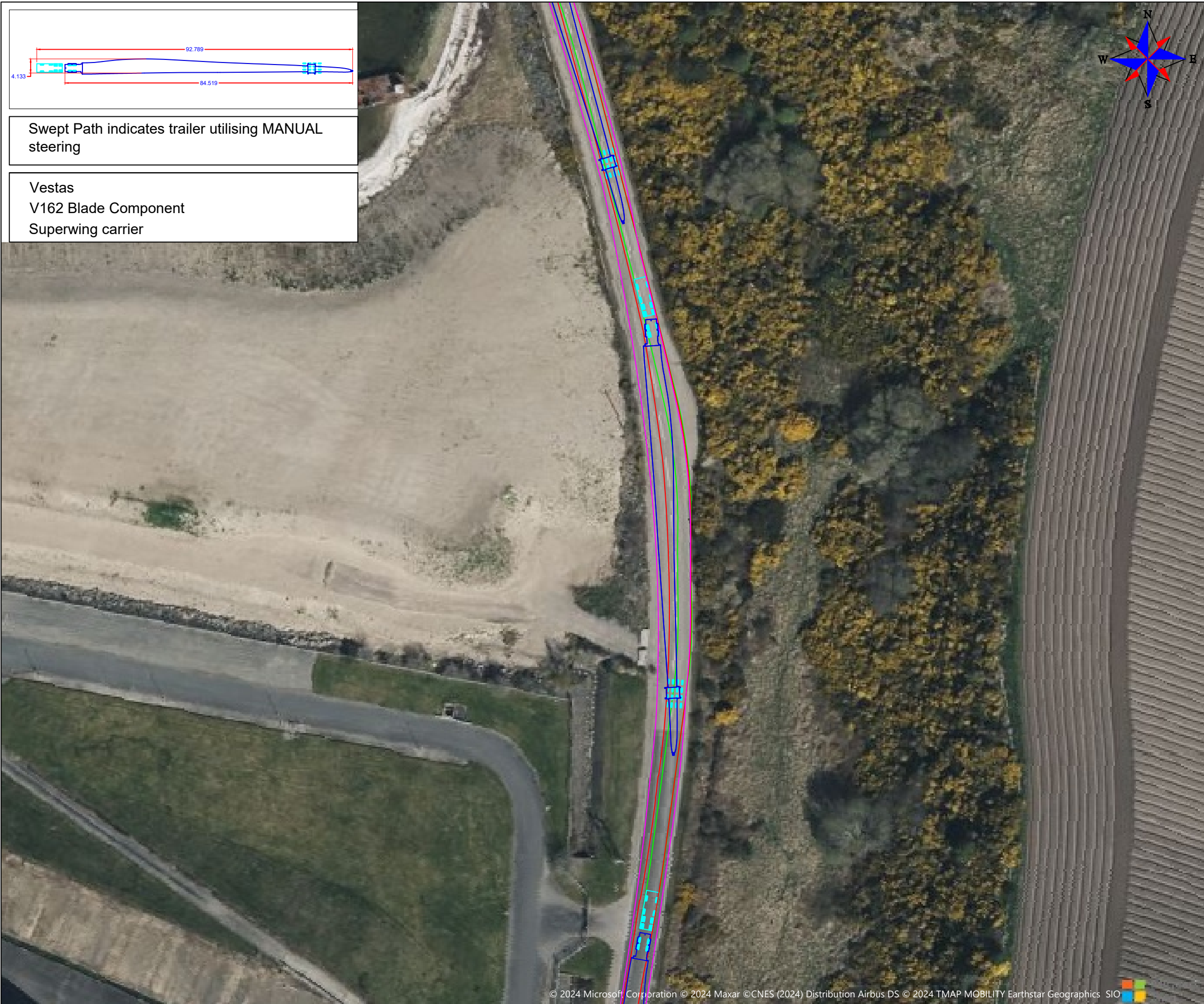
- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN A.COOKE		TITLE RIGHT HAND BEND OPN THE B9175			
		DATE 24/02/2024		MAPPING AERIAL MAPPING	CUSTOMER STATKRAFT UK LTD		
		SCALE 1:750	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT	SITE CARN FEARN WIND FARM	DWG. NO. 408561-20A1.1	



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier



Continue on the B9175 towards the A9.

****Caution****

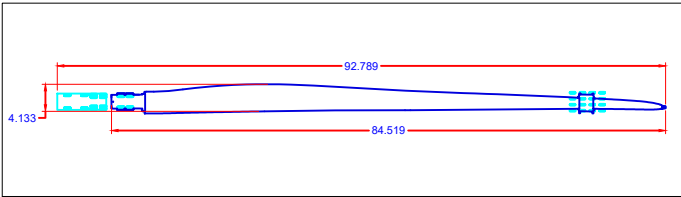
- The loaded blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

UK Grid Reference: NH 79494 70950

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

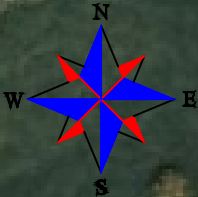
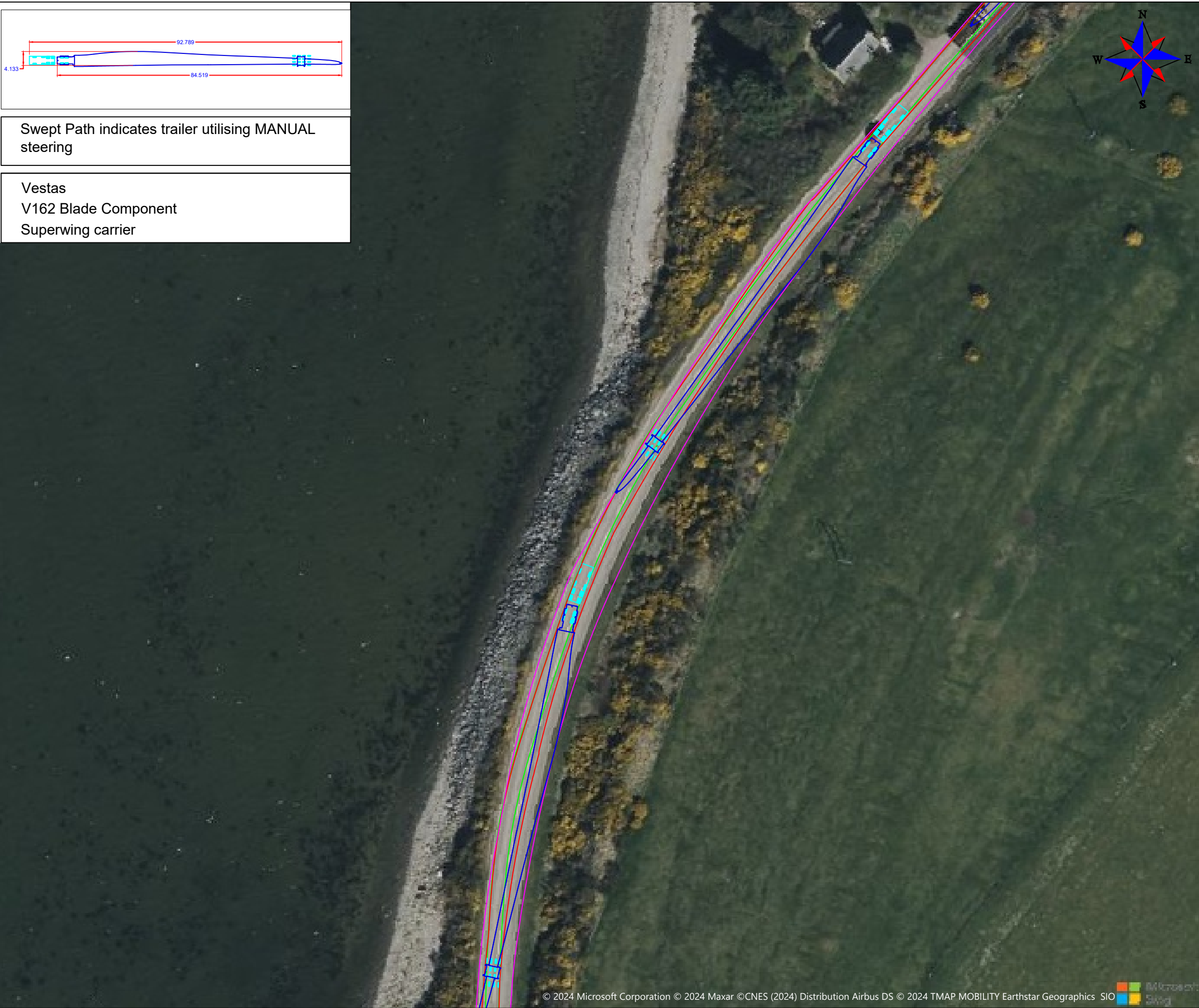
- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

DRAWN		A.COOKE		TITLE		LEFT HAND BEND ON B9175	
DATE		24/02/2025		MAPPING		CUSTOMER	
SCALE		1:750		PINCH POINT IDENTIFIED BY		SITE	
		SIZE		A3		CARN FEARN WIND FARM	
				COLLETT		DWG. NO. 408561-30A1.1	
						STATKRAFT UK LTD	



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier




Continue on the B9175 towards the A9.

****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

UK Grid Reference: NH 79434 71635

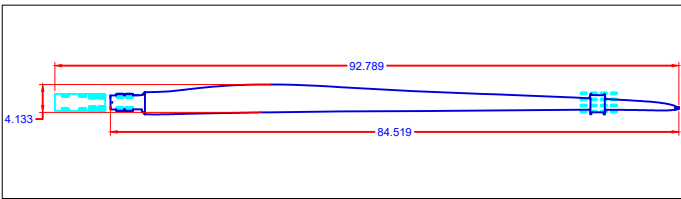
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



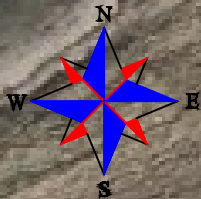
COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN		A.COOKE		TITLE		RIGHT HAND BEND ON B9175					
DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD	
SCALE		1:750		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT	
								SITE		CARN FEARNA WIND FARM	
										DWG. NO. 408561-40A1.1	



Swept Path indicates trailer utilising MANUAL steering

Siemies
V162 Blade Component
Superwing carrier



Continue on the B9175 towards the A9.

****Caution****

- The lowered blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

UK Grid Reference: NH 79763 72130

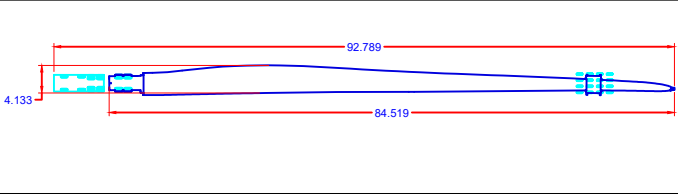
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



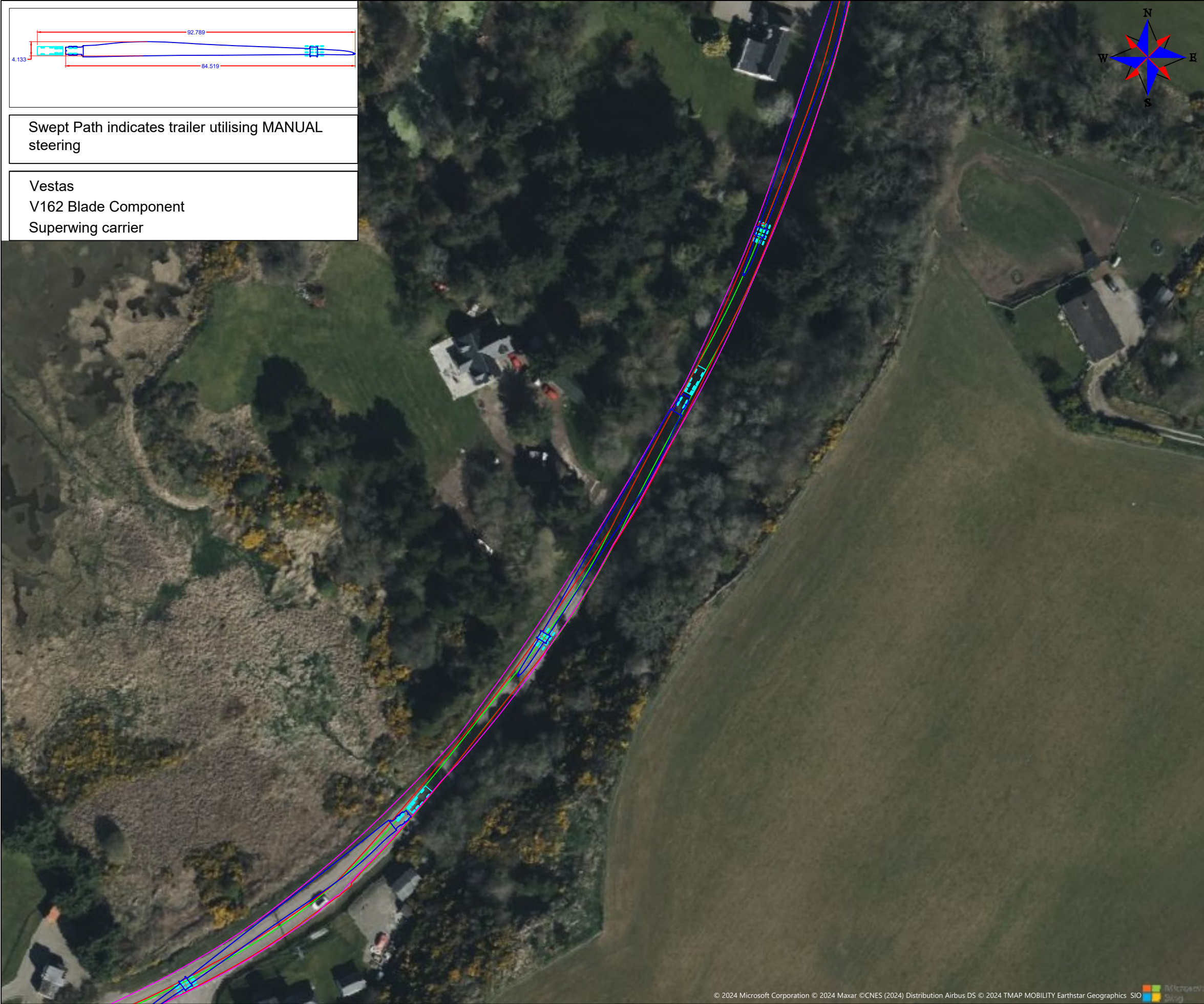
COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN		A.COOKE		TITLE		RIGHT HAND BEND ON B9175					
DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD	
SCALE		1:750		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT	
								SITE		CARN FEARNA WIND FARM	
										DWG. NO. 408561-50A1.1	



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier




Continue on the B9175 towards the A9.

****Caution****

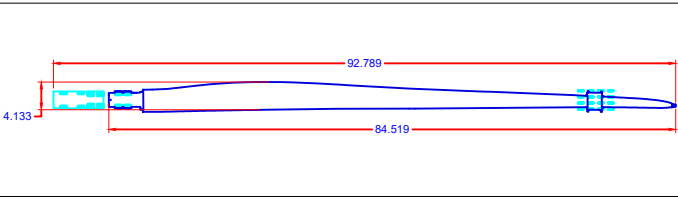
- Tree pruning is required along this bend to allow the lowered blade to navigate this loaction.
- The lowered blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

UK Grid Reference: NH 80490 72505

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

<div><div>COLLETT</div><div>EXPERTS IN MOTION</div></div>	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				LEFT HAND BENDS ON B9175					
	Victoria Terminal TEL: +44(0)8456 255288		DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD	
	Albert Road FAX: +44(0)8456 255244		SCALE		1:1000		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT	
	Halifax, HX2 0DF WEB: www.collett.co.uk		SITE		CARN FEARN WIND FARM		DWG. NO.		408561-60A1.1					



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier




Continue on the B9175 towards the A9..


****Caution****

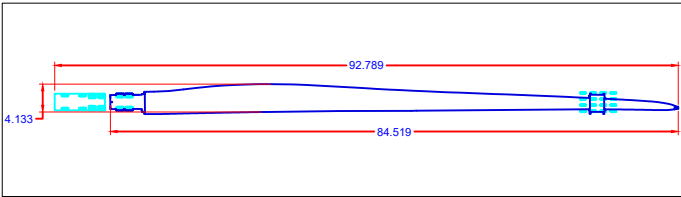
- Tree pruning on the offside of the bend is required to allow loaded blade to oversail this location.

UK Grid Reference: NH 80583 72800

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				RIGHT HAND BENDS ON B9175												
	Victoria Terminal TEL: +44(0)8456 255288		DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD								
	Albert Road FAX: +44(0)8456 255244		SCALE		1:750		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO. 408561-70A1.1		
	Halifax, HX2 0DF WEB: www.collett.co.uk																				



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier




Continue on the B9175 towards the A9..


****Caution****

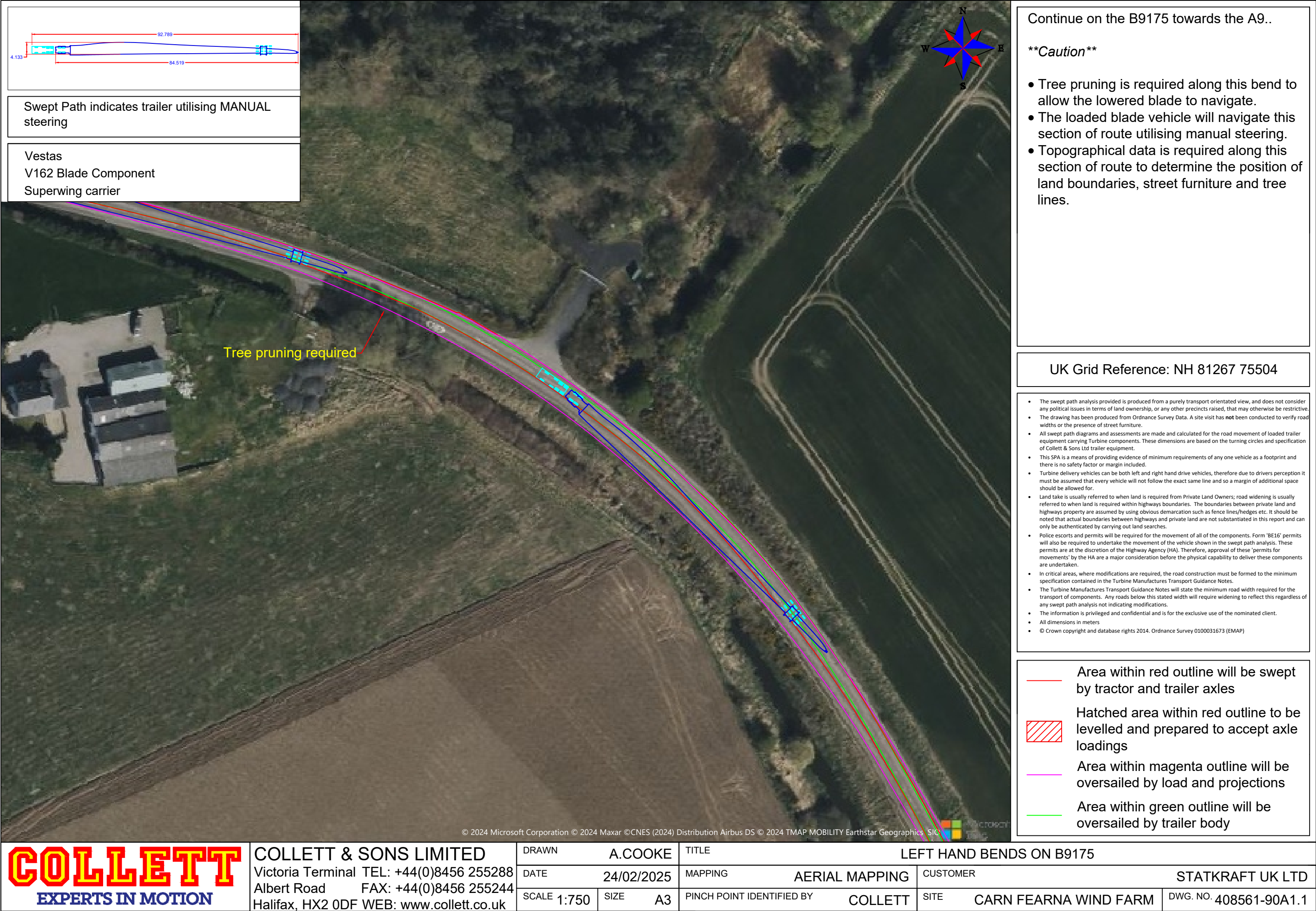
- The loaded blade will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

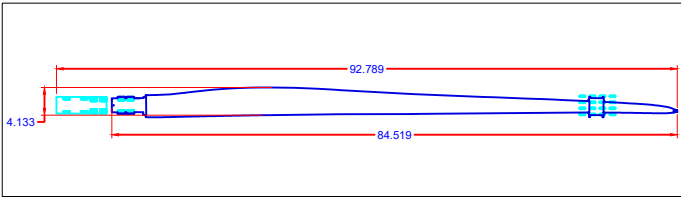
UK Grid Reference: NH 81665 74348 - NH 81450 75221

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

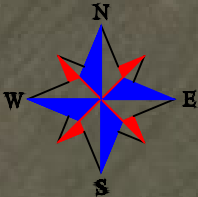
	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				LONG LEFT HAND BEND ON THE B9175												
	Victoria Terminal TEL: +44(0)8456 255288		DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD								
	Albert Road FAX: +44(0)8456 255244		SCALE		NTS		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO. 408561-80A1.1		
Halifax, HX2 0DF WEB: www.collett.co.uk																					





Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier




Continue on the B9175 towards the A9.

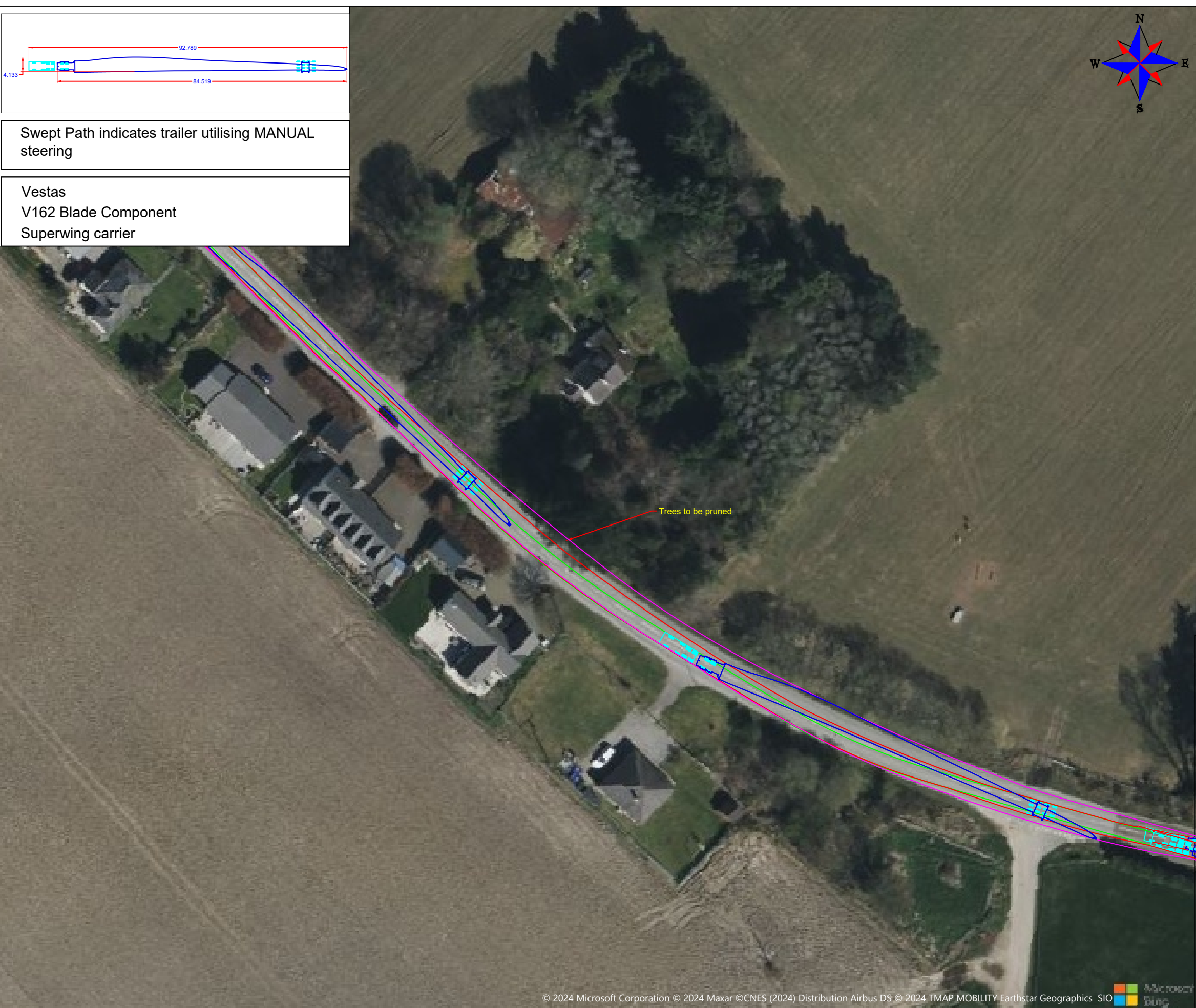
****Caution****

- Overhanging trees are to be pruned to allow the blade to navigate the bend
- The loaded blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street furniture and tree lines.

UK Grid Reference: NH 81037 75598

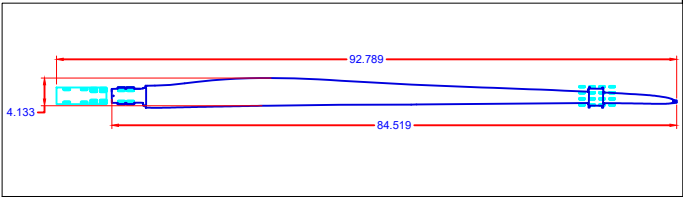
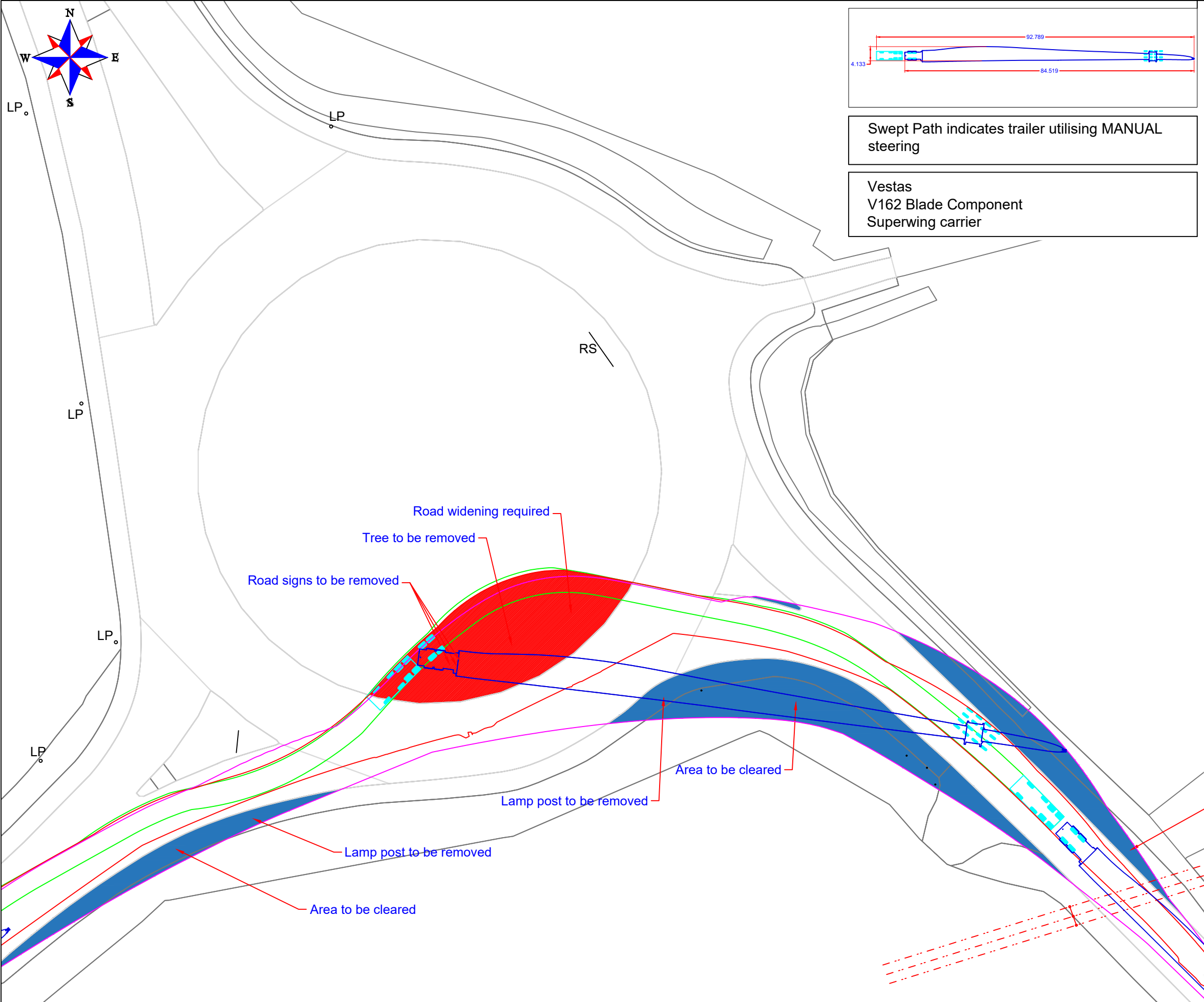
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN		A.COOKE		TITLE		RIGHT HAND BENDS ON B9175													
DATE		24/02/2025		MAPPING		AERIAL MAPPING		CUSTOMER		STATKRAFT UK LTD									
SCALE		1:750		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARNA WIND FARM		DWG. NO.		408561-100A1.1	



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Take the 1st exit at the roundabout onto the A9.


****Caution****

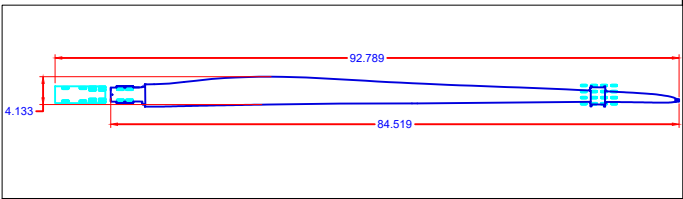
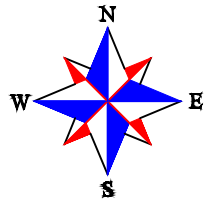
- Road widening is required on the roundabout to prevent load projections from oversailing third party land.
- Lamp posts are to be removed as indicated to allow the loaded blade to oversail this location.
- Road sign on central reservation is to be removed.
- Trees on central reservation are to be removed.
- Area in blue hatch is to be kept clear to allow the loaded blade to oversail the location.

UK Grid Reference: NH 79383 77180

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE		NIGG ROUNDABOUT			
	Victoria Terminal	TEL: +44(0)8456 255288	DATE	24/02/2025	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER	STATKRAFT UK LTD		
	Albert Road	FAX: +44(0)8456 255244	SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT		
	Halifax, HX2 0DF	WEB: www.collett.co.uk					SITE	CARN FEARN A WIND FARM	DWG. NO.	408561-110A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Lamp post to be removed

Area to be cleared

Tree pruning required

Road widening required

Area to be cleared

Road sign to be removed

Area to be cleared

Road sign to be removed

A 862


Continue on A9 to Ardullie roundabout.
At roundabout take first exit onto A9.

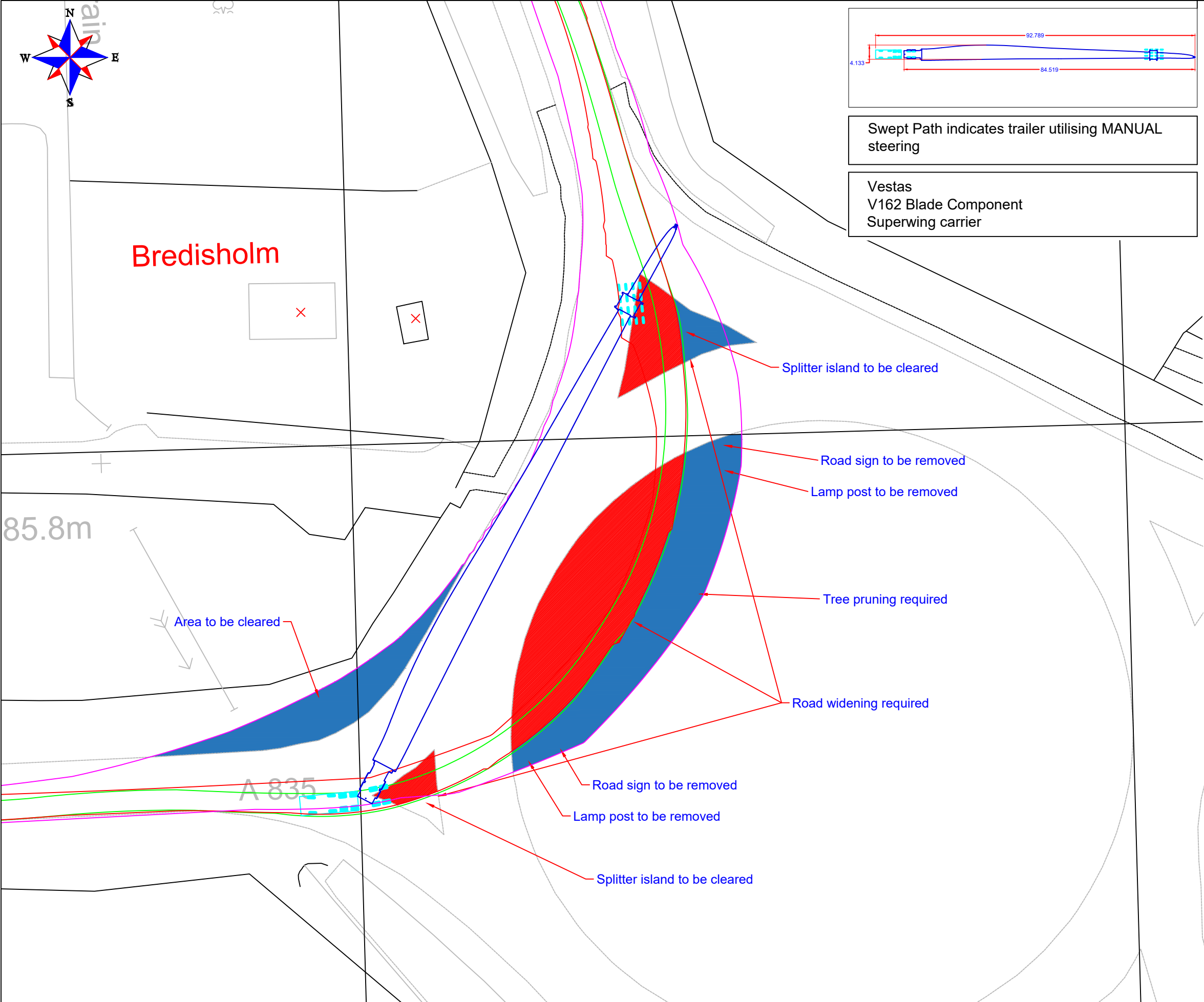
****Caution****

- Road widening is required as indicated by the red hatching.
- The lamp post on the roundabout entry is required to be removed.
- The road signs on the roundabout exit are required to be removed as indicated.
- Tree to be removed on the central reservation of the roundabout.

UK Grid Reference: NH 58740 62252

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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

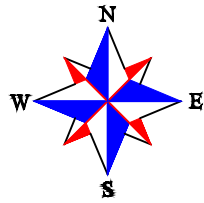


- Continue on A9 to Tore roundabout.
At roundabout take third exit onto A835.
- **Caution****
- Road widening is required as indicated by the red hatching to avoid the use of third party land.
 - Road sign is to be removed on the splitter island and central reservation to allow the loaded blade to oversail.
 - Lamp posts on central reservation of roundabout are to be removed to allow loaded blade to oversail.
 - Railing to be removed to allow trailer to oversail the location.
 - Contraflow maneuver is required at this roundabout to limit the number of modifications.

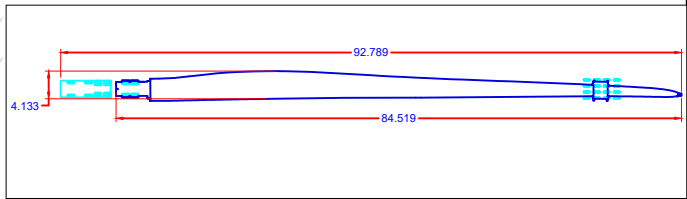
UK Grid Reference: NH 60254 52469

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- ▨ Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Posts



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to Maryburgh roundabout.
At roundabout take second exit onto A835.

****Caution****

- Road widening required on the central reservation of the roundabout.
- Trees are to be removed on the central reservation of the roundabout and the near and offside of the road to allow the loaded blade to oversail this location.
- Lamp post on the nearside of the road are to be removed to allow the loaded blade to oversail.
- Road signs are to be removed on the central reservation of the roundabout , splitter island and on the offside of the road to allow the blade to navigate this location.

UK Grid Reference: NH 54329 56974

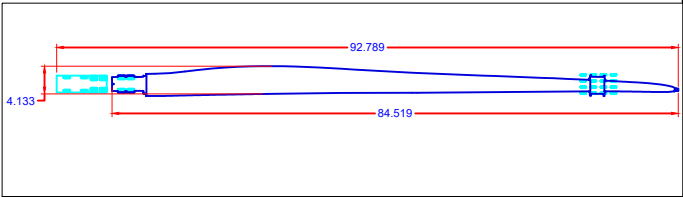
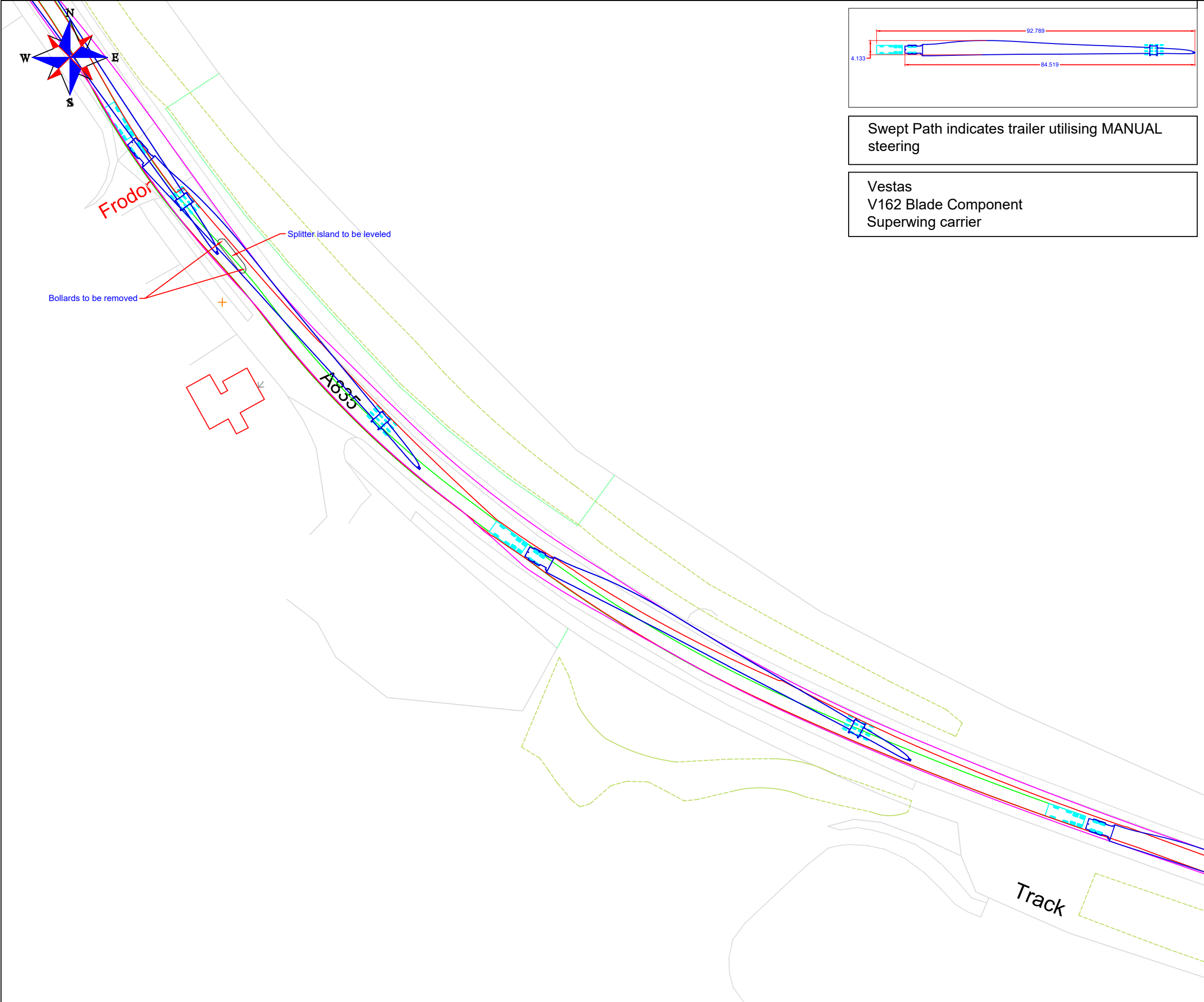
- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
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- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
- In critical areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.
- The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this stated width will require widening to reflect this regardless of any swept path analysis not indicating modifications.
- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

COLLETT
EXPERTS IN MOTION

COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE		MARYBURGH ROUNDABOUT	
DATE	24/02/2025	MAPPING	ORDNANCE SURVEY	CUSTOMER	STATKRAFT UK LTD
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARN A WIND FARM	DWG. NO.	408561-140A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.


****Caution****

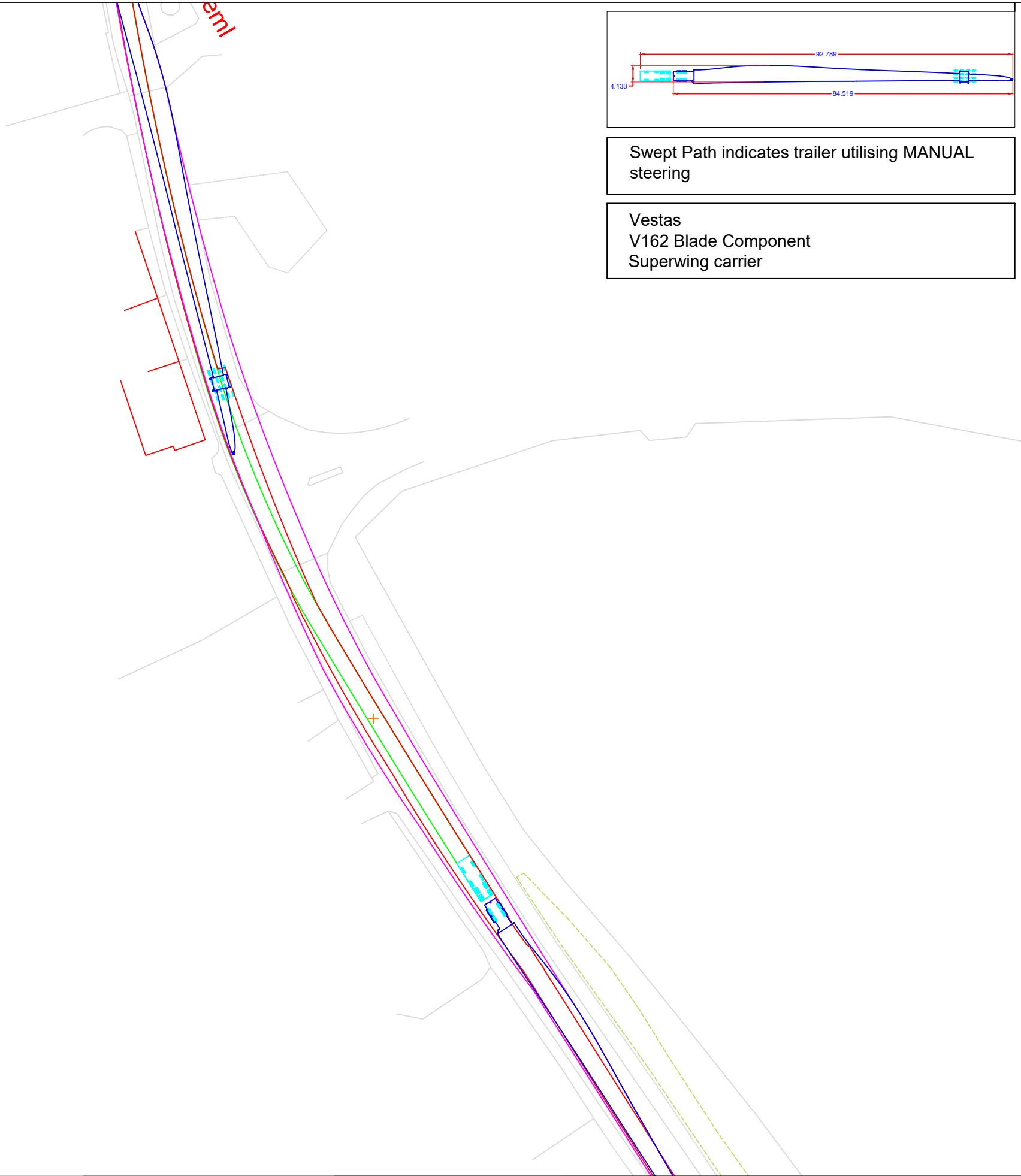
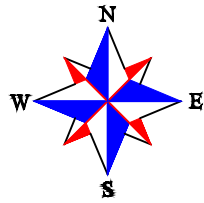
- Splitter island is to be leveled to allow the loaded blade to navigate this location.
- Bollards on the splitter island are to be removed to allow the loaded blade to oversail.

UK Grid Reference: NH 46033 55519

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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				RIGHT HAND BEND ON A835				
	Victoria Terminal TEL: +44(0)8456 255288		DATE	25/02/2025	MAPPING		ORDNANCE SURVEY	Not Adjusted	CUSTOMER	STATKRAFT UK LTD			
	Albert Road FAX: +44(0)8456 255244		SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY		COLLETT	SITE	CARN FEARN WIND FARM	DWG. NO.	408561-150A1.1
Halifax, HX2 0DF WEB: www.collett.co.uk													



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.

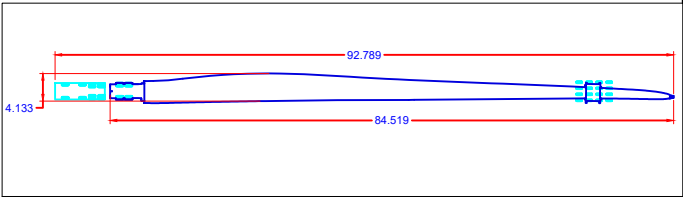
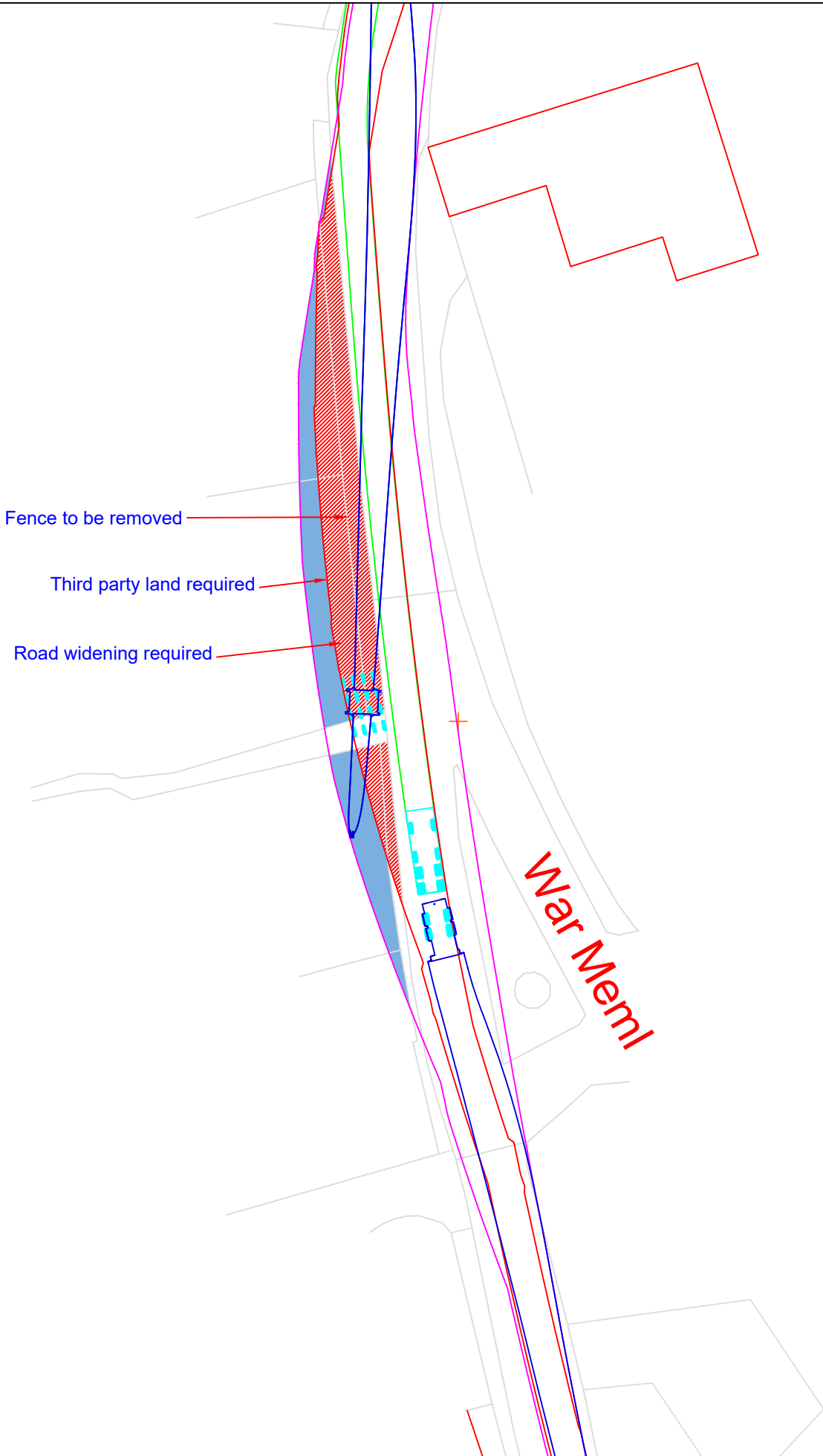
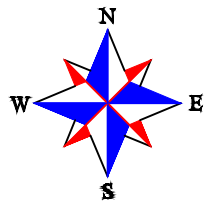
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 45866 55762

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

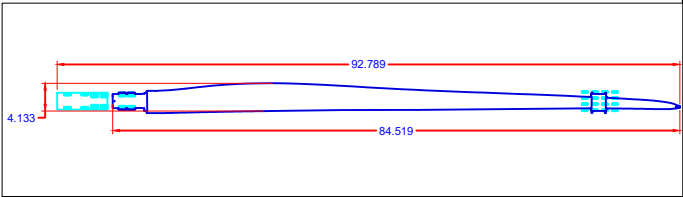
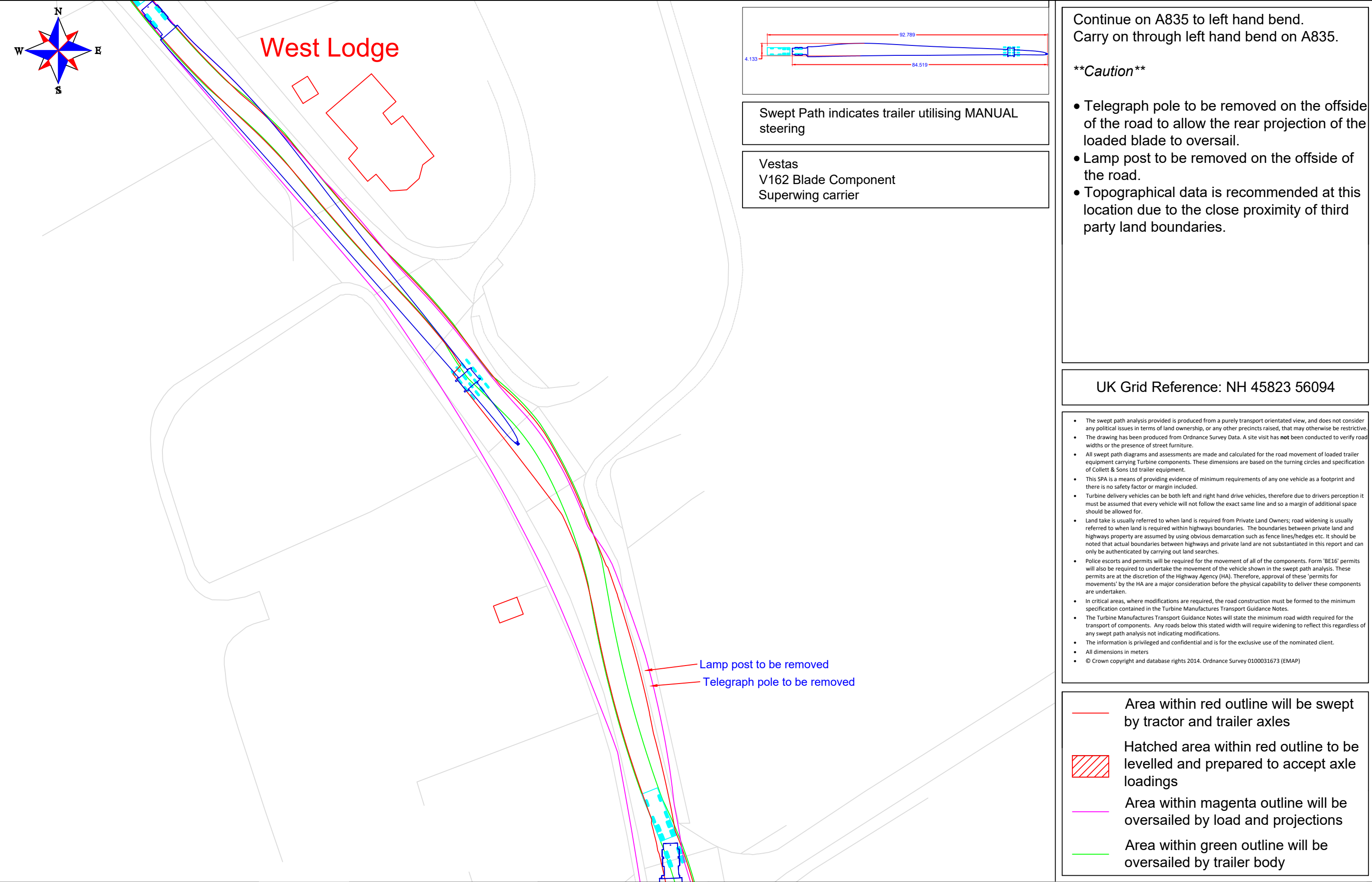
Vestas
V162 Blade Component
Superwing carrier

- Continue on A835 to S-bend.
Carry on through S-bend on A835.
- **Caution****
- Third party land is required to prevent colliding with the building on the offside of the road .
 - Road widening is required as indicate by the red hatching.
 - Fence to be removed.

UK Grid Reference: NH 45845 55969

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
- Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Continue on A835 to left hand bend.
Carry on through left hand bend on A835.


****Caution****

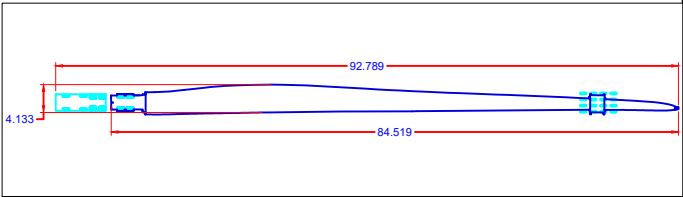
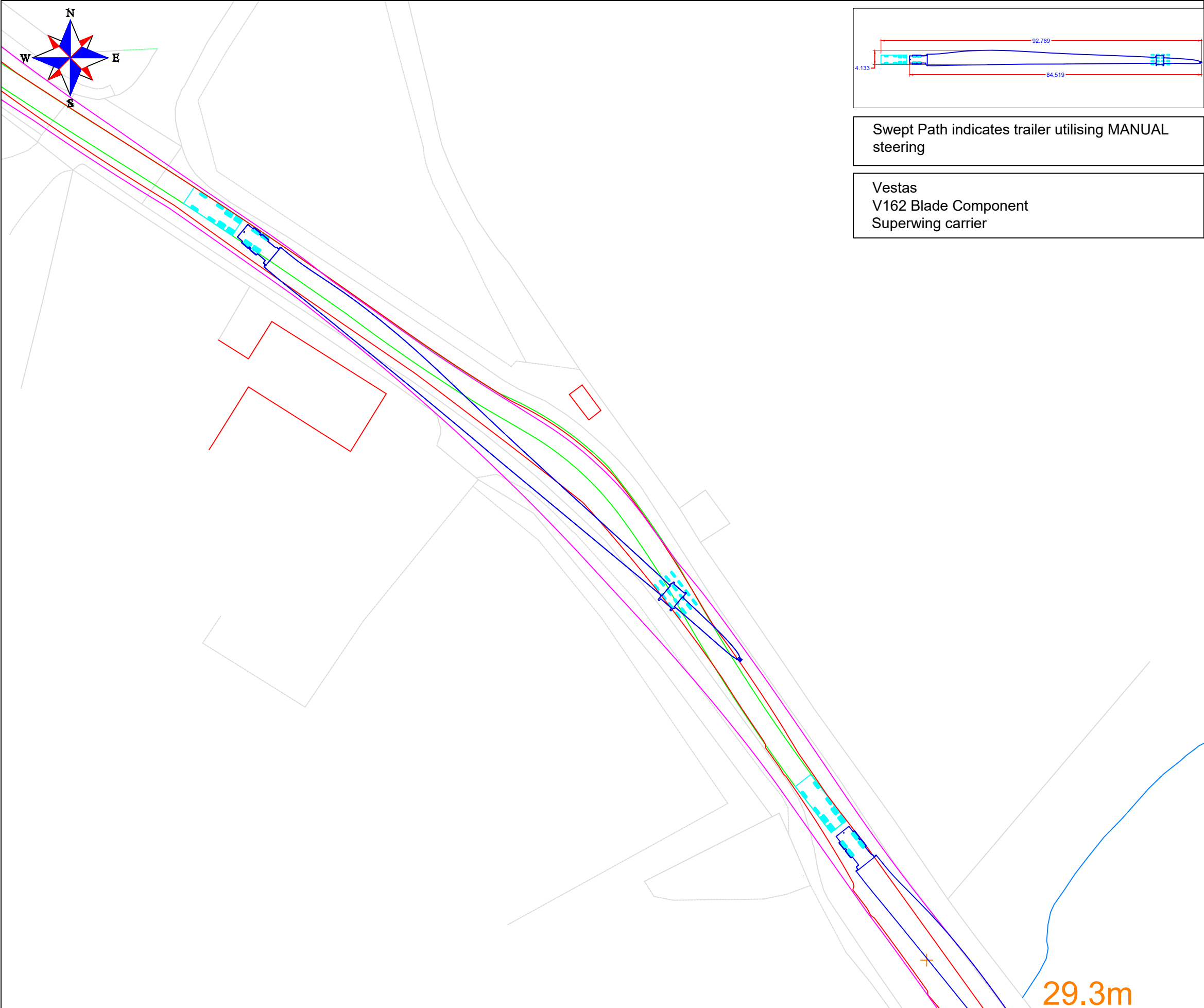
- Telegraph pole to be removed on the offside of the road to allow the rear projection of the loaded blade to oversail.
- Lamp post to be removed on the offside of the road.
- Topographical data is recommended at this location due to the close proximity of third party land boundaries.

UK Grid Reference: NH 45823 56094

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				LEFT HAND BEND ON A835													
	Victoria Terminal TEL: +44(0)8456 255288		DATE		25/02/2025		MAPPING		ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER		STATKRAFT UK LTD									
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO		408561-180A1.1	
	Halifax, HX2 0DF WEB: www.collett.co.uk																					



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.


****Caution****

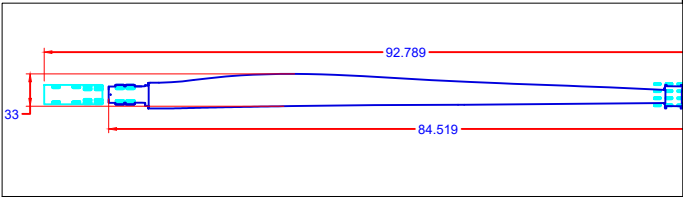
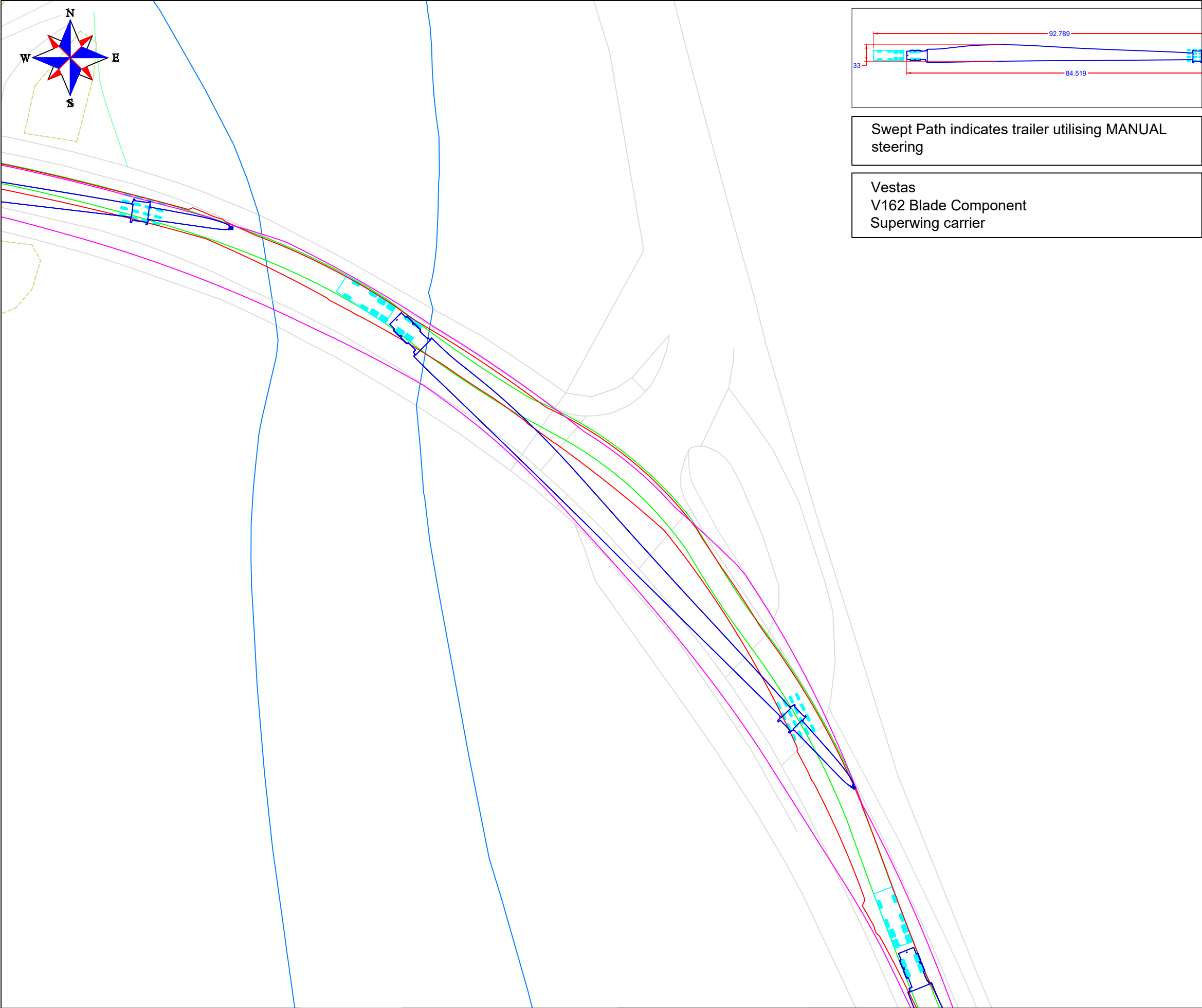
- The loaded blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is recommended at this location due to the close proximity of third party land boundaries.

UK Grid Reference: NH 45651 56286

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN A.COOKE		TITLE LEFT HAND BEND ON A835			
		DATE 25/02/2025		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER STATKRAFT UK LTD	
		SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT		SITE CARN FEARN WIND FARM	DWG. NO. 408561-190A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

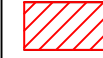
Continue on A835 to left hand bend.
Carry on through left hand bend on A835.


****Caution****

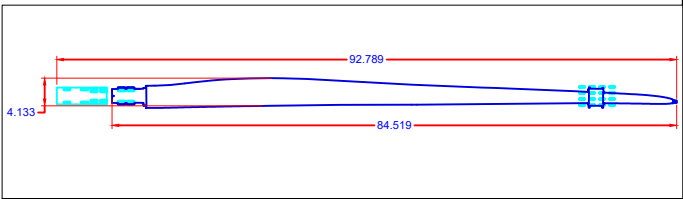
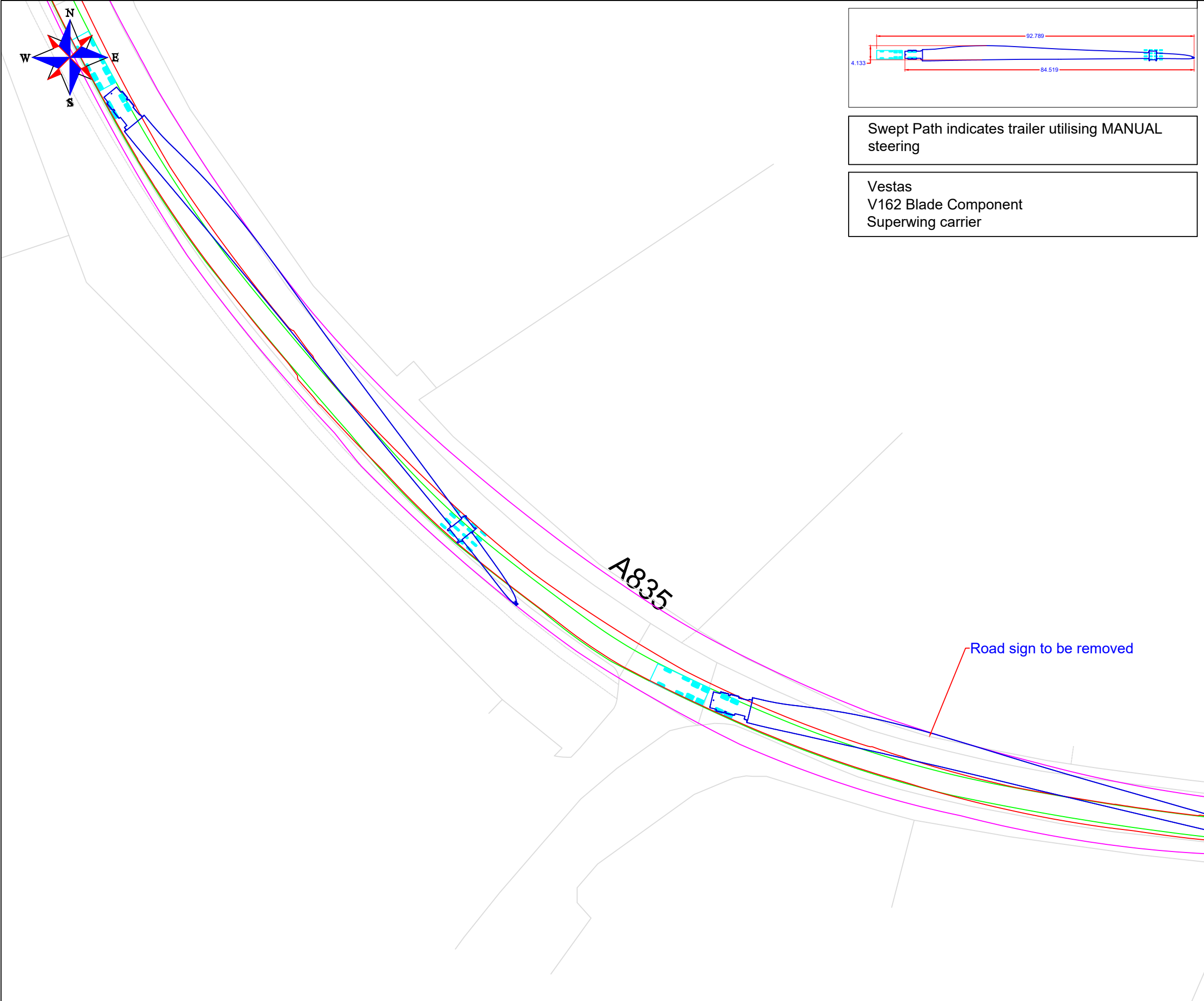
- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 45440 56602

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within magenta outline will be over-sailed by load and projections
- Area within green outline will be over-sailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				BRIDGE ON LEFT HAND BEND ON A835								
	Victoria Terminal TEL: +44(0)8456 255288		DATE		18/11/2024		MAPPING		ORDNANCE SURVEY	Not Adjusted	CUSTOMER		STATKRAFT UK LTD				
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500	SIZE		A3	PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM	DWG. NO.	408561-200A1.1
Halifax, HX2 0DF WEB: www.collett.co.uk																	



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.


****Caution****

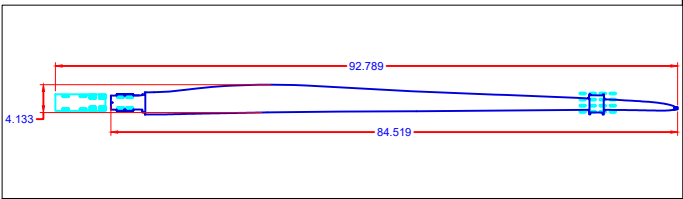
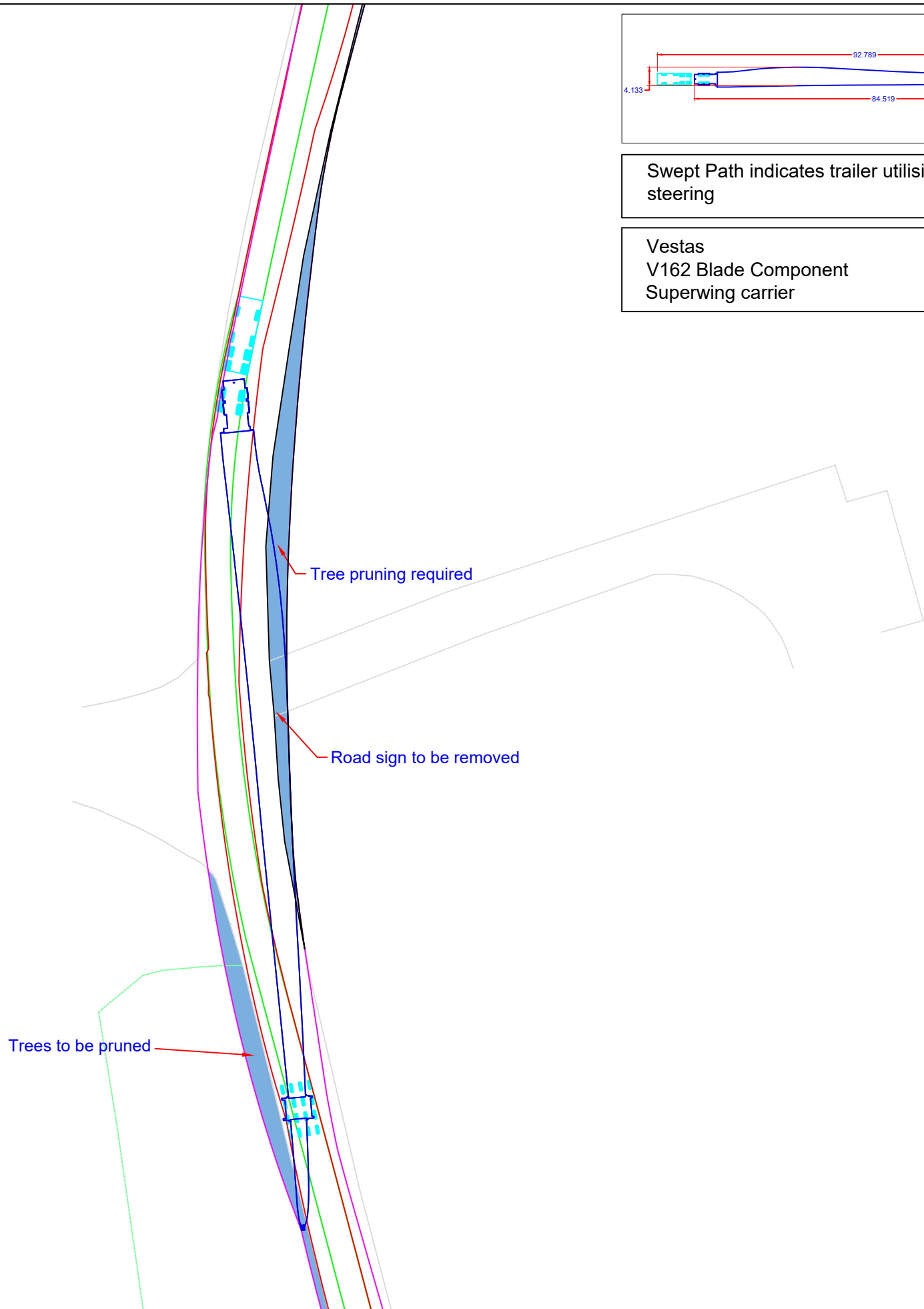
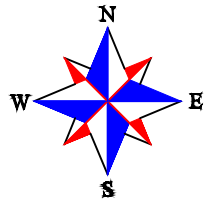
- Land Boundary to be confirmed to check if possible third party land is required.
- Road sign to be removed on the offside of the bend.

UK Grid Reference: NH 45008 56675

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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED	DRAWN A.COOKE		TITLE RIGHT HAND BEND ON A835		
	Victoria Terminal TEL: +44(0)8456 255288	DATE 18/11/2024		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER STATKRAFT UK LTD	
	Albert Road FAX: +44(0)8456 255244	SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT	SITE CARN FEARNA WIND FARM	DWG. NO. 408561-210A1.1
Halifax, HX2 0DF WEB: www.collett.co.uk						



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.

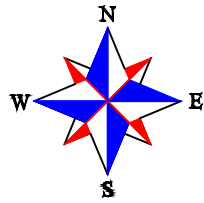
****Caution****

- The road sign on the offside of the bend is required to be removed.
- Tree pruning is required on both the onside and offside of the road to allow the loaded blade to oversail.

UK Grid Reference: NH 44797 57292

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
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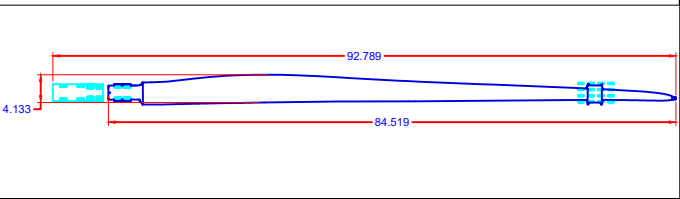
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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Trees and vegetation to be removed

Banking to be cut back

Trees and vegetation
to be pruned



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

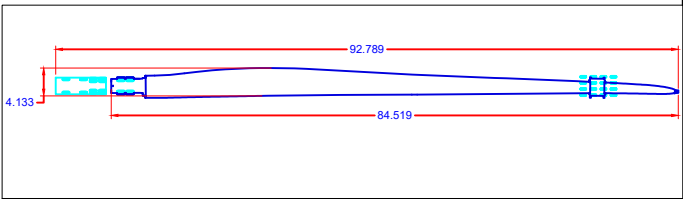
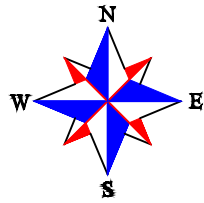
****Caution****

- Banking on the nearside of the road is to be cut back to allow the trailer and
- Trees and vegetation are to be removed on both the offside and nearside of the road to allow the projections of the blade to oversail.

UK Grid Reference: NH 44791 57540

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

****Caution****

- Trees and vegetation are to be removed on the nearside of the road to allow the loaded blade to oversail.
- Topographical data is recommended to determine the tree boundaries on both sides of the road.

UK Grid Reference: NH 43759 58834

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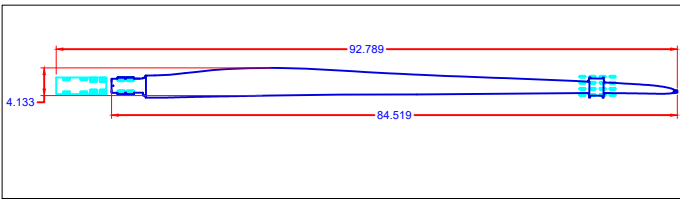
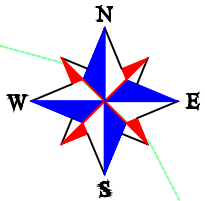
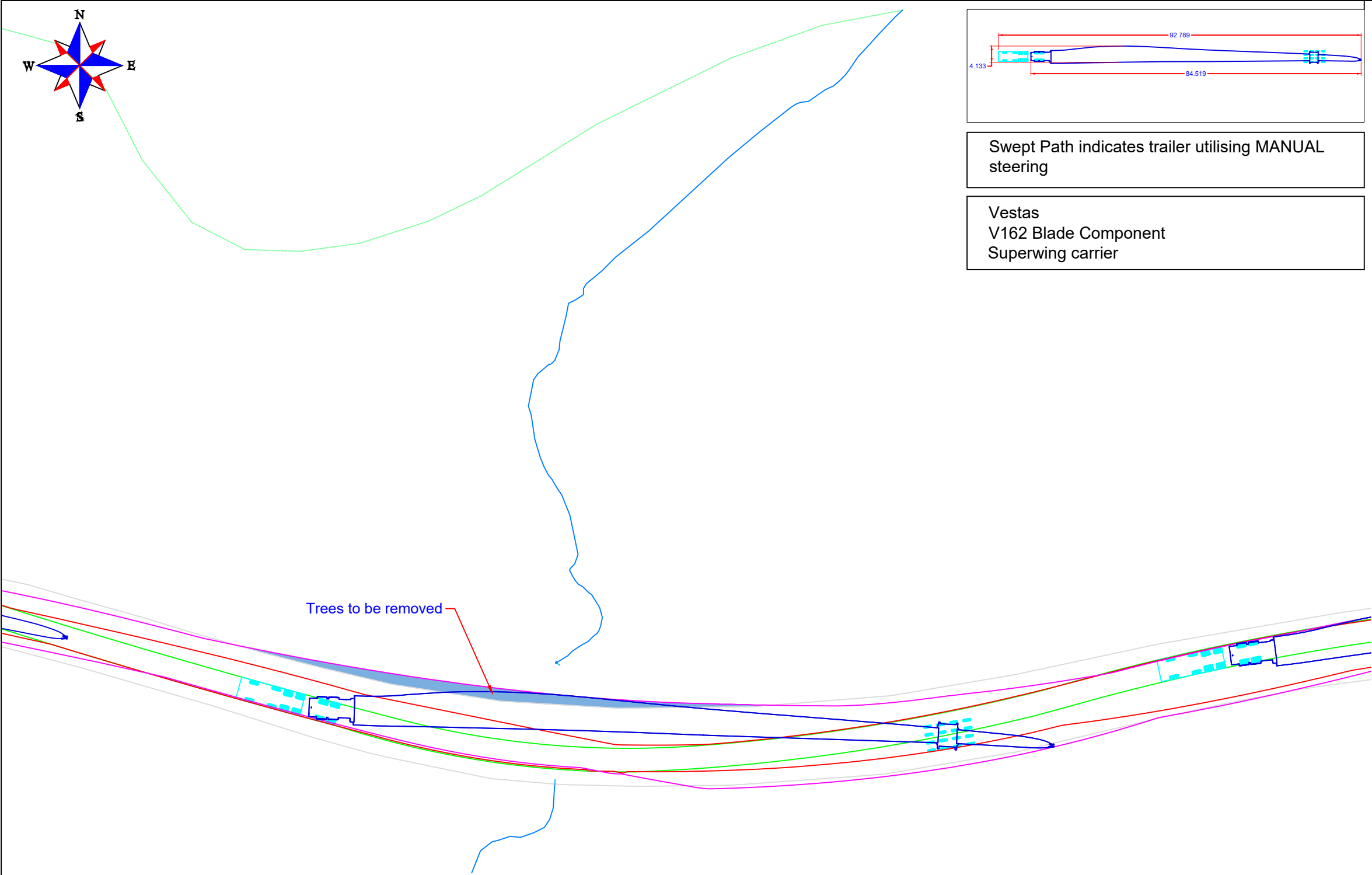
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Trees and vegetation to be removed

COLLETT
EXPERTS IN MOTION

COLLETT & SONS LIMITED
Victoria Terminal TEL: +44(0)8456 255288
Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE		LEFT HAND BEND ON A835	
DATE	27/02/2025	MAPPING	ORDNANCE SURVEY	CUSTOMER	STATKRAFT UK LTD
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARN WIND FARM	DWG. NO.	408561-240A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.


****Caution****

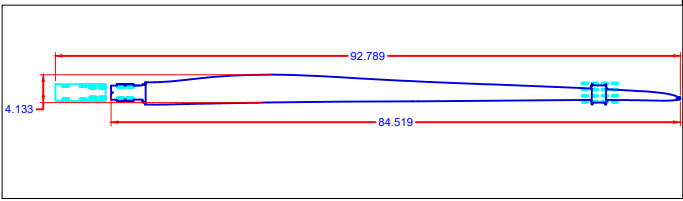
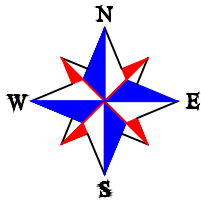
- Trees on the offside of the road are to be removed to allow the loaded blade to oversail.
- Topographical data is recommended to determine the tree boundaries on both sides of the road.

UK Grid Reference: NH 43559 58811

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN A.COOKE		TITLE RIGHT HAND BEND ON A835			
		DATE 27/02/2025		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER STATKRAFT UK LTD	
		SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT		SITE CARN FEARN WIND FARM	DWG. NO. 408561-250A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

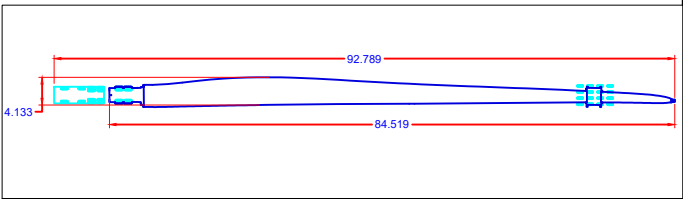
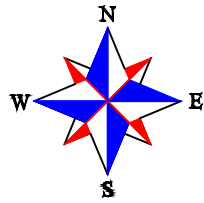
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 42598 58996

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.

****Caution****

- Road sign on the nearside of the road is to be removed.
- Trees on the offside of the road are to be removed.
- Trees on the nearside of the bend are to be removed.

UK Grid Reference: NH 42262 58952

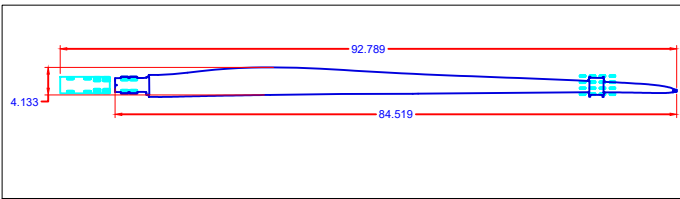
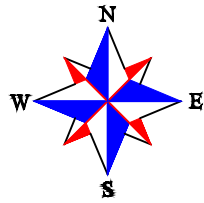
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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE			
DATE	27/02/2025	MAPPING	ORDNANCE SURVEY	CUSTOMER	STATKRAFT UK LTD
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARN WIND FARM	DWG. NO.	408561-270A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

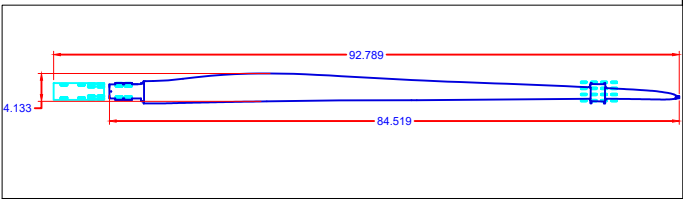
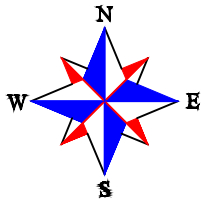
****Caution****

- Banking on the nearside of the road is to be cut back to allow the loaded blade to oversail.
- Trees are to be removed on the nearside of the bend to allow the loaded blade to oversail.

UK Grid Reference: NH 42051 59042

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Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

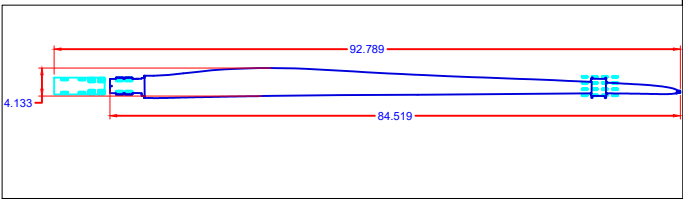
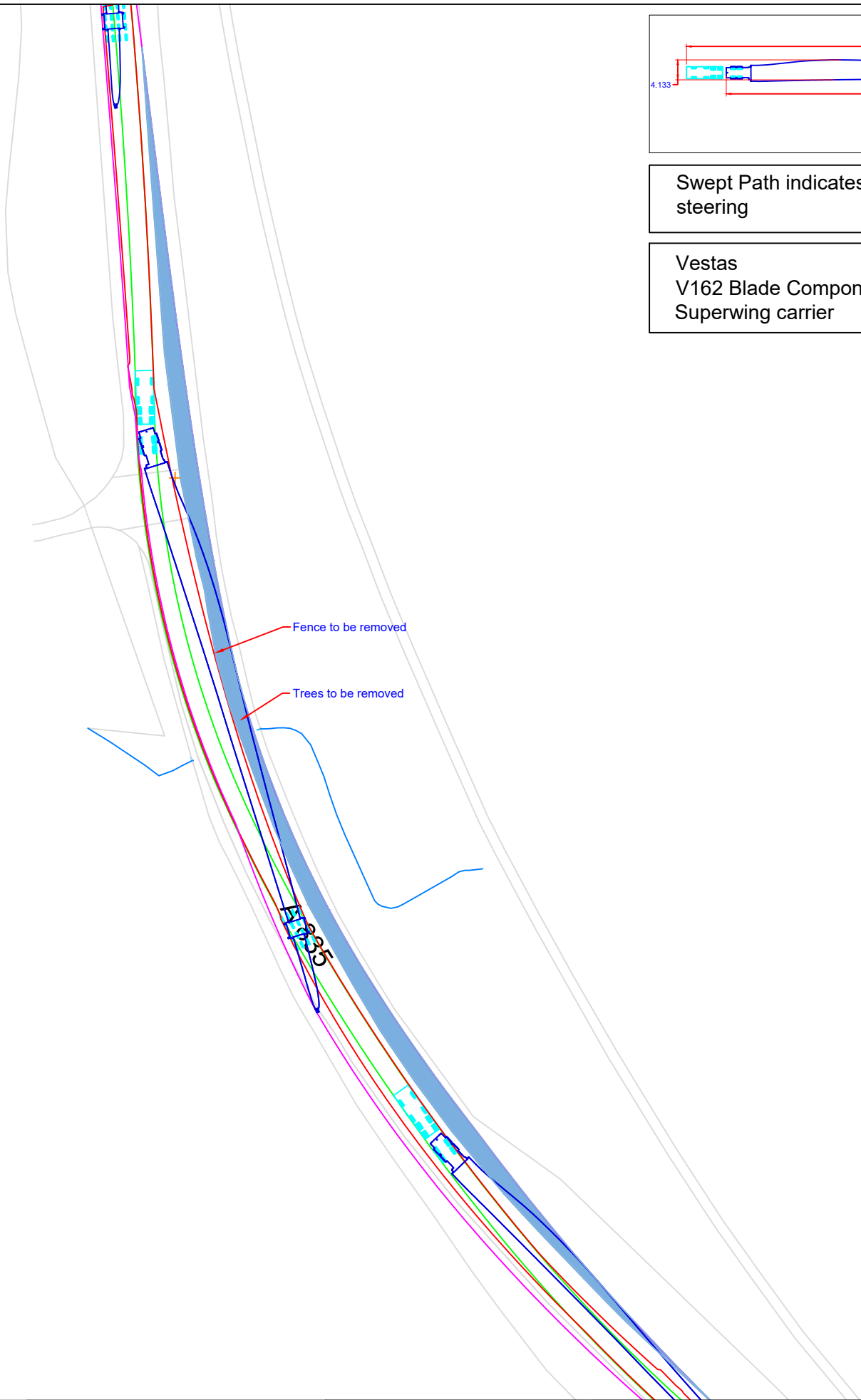
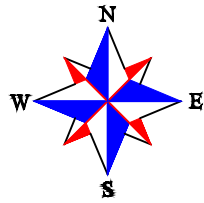
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 41250 59069

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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.

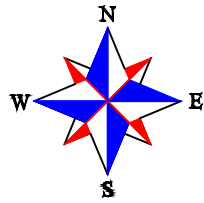
****Caution****

- Fence to be removed to allow the chord to oversail this location.
- Trees on the offside of the bend are to be removed to allow the blade projections to oversail.
- Topographical data is recommended at this location.

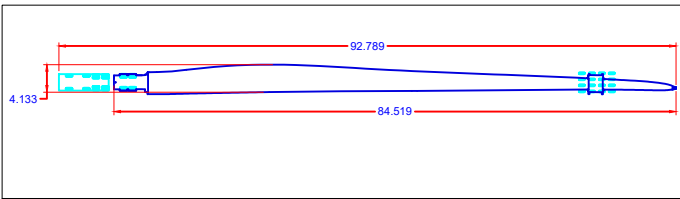
UK Grid Reference: NH 39950 60051

- The swept path analysis provided is produced from a purely transport orientated view, and does not consider any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictive.
- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
- Police escorts and permits will be required for the movement of all of the components. Form 'BE16' permits will also be required to undertake the movement of the vehicle shown in the swept path analysis. These permits are at the discretion of the Highway Agency (HA). Therefore, approval of these 'permits for movements' by the HA are a major consideration before the physical capability to deliver these components are undertaken.
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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within green outline will be oversailed by trailer body



Area to be cleared



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

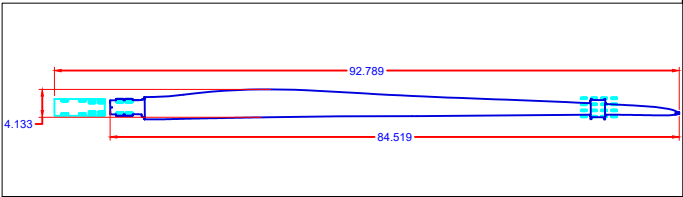
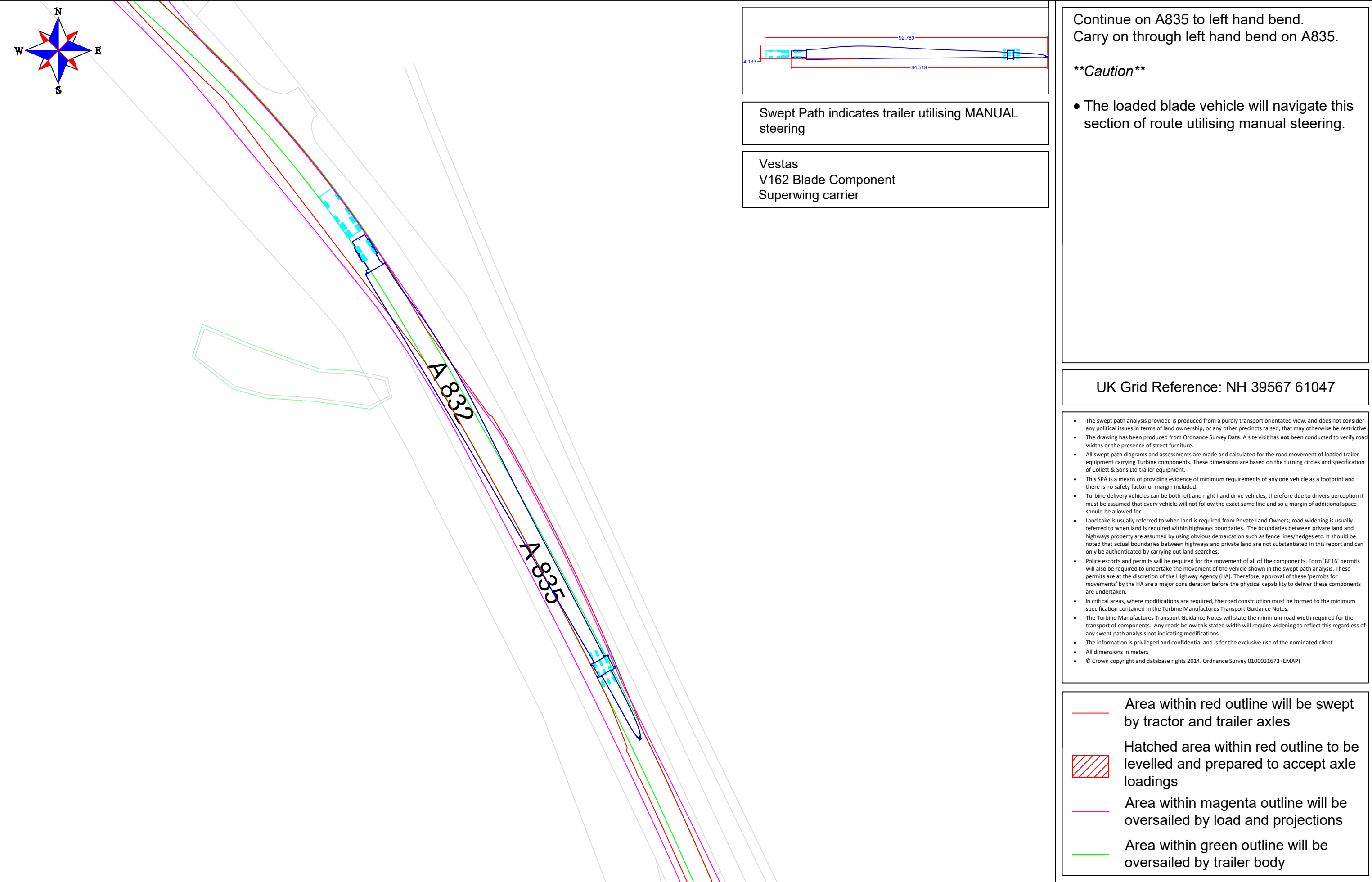
****Caution****

- Area in the blue hatching is to be cleared of all obstructions to allow the loaded blade to oversail.

UK Grid Reference: NH 39911 60412

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Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

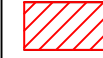
Continue on A835 to left hand bend.
Carry on through left hand bend on A835.


****Caution****

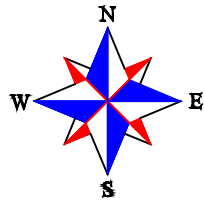
- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 39567 61047

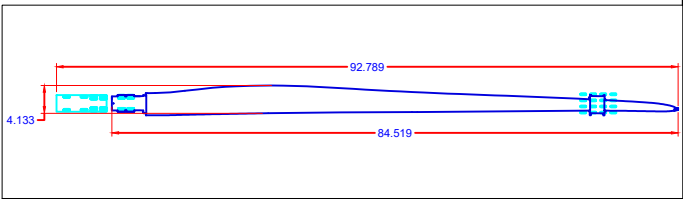
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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN	A.COOKE	TITLE LEFT HAND BEND ON A835			
		DATE	27/02/2025	MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER STATKRAFT UK LTD	
		SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT		SITE CARN FEARN WIND FARM	DWG. NO. 408561-320A1.1



Lay-k



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right bend.
Carry on through right hand bend on A835.

****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 39473 61405

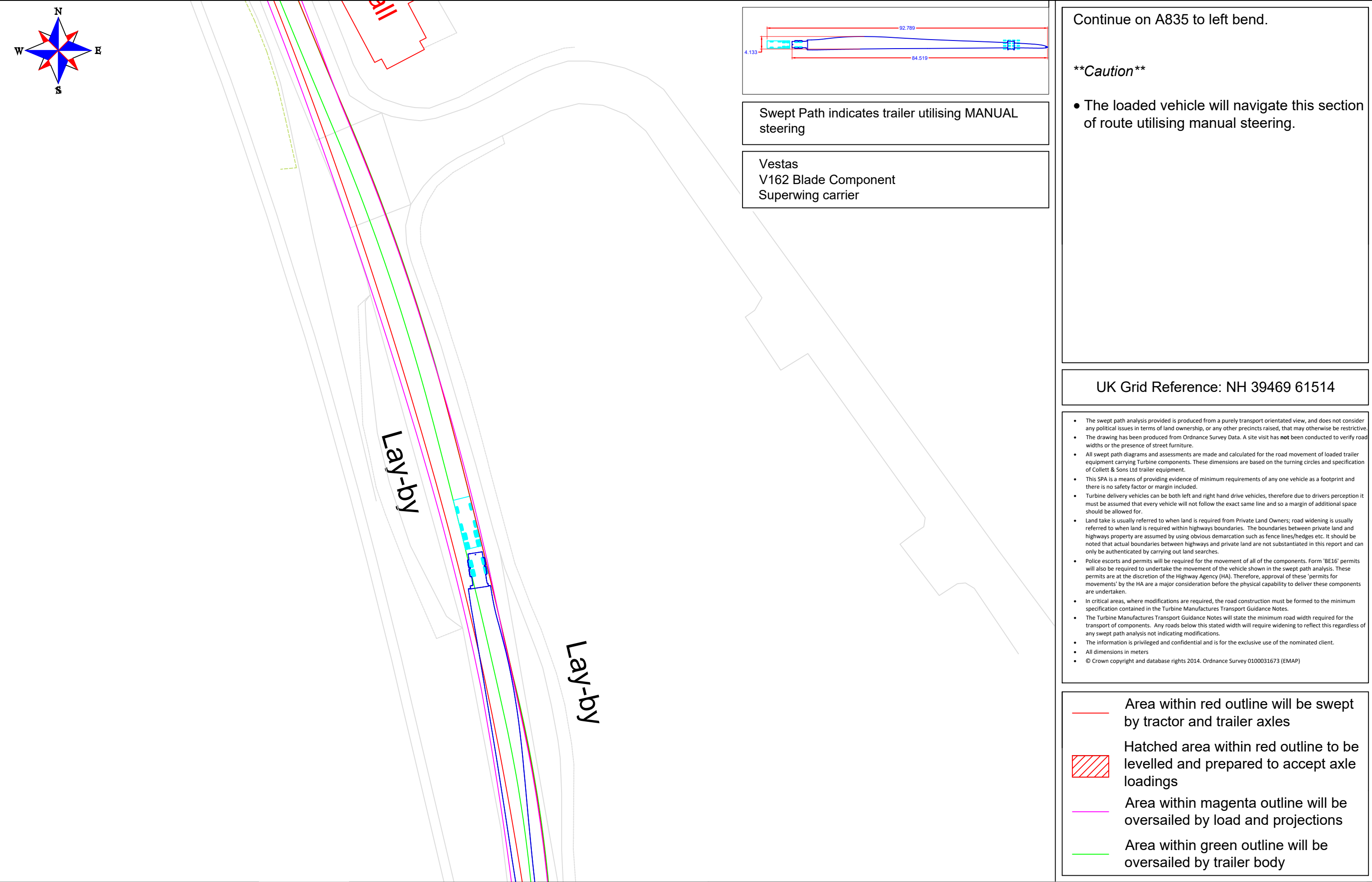
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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE				RIGHT HAND BEND ON A835	
DATE	27/02/2025	MAPPING	ORDNANCE SURVEY	Not Adjusted	CUSTOMER	STATKRAFT UK LTD	
SCALE	1:500	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT	SITE	CARN FEARN A WIND FARM
						DWG. NO.	408561-330A1.1



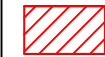
Continue on A835 to left bend.


****Caution****

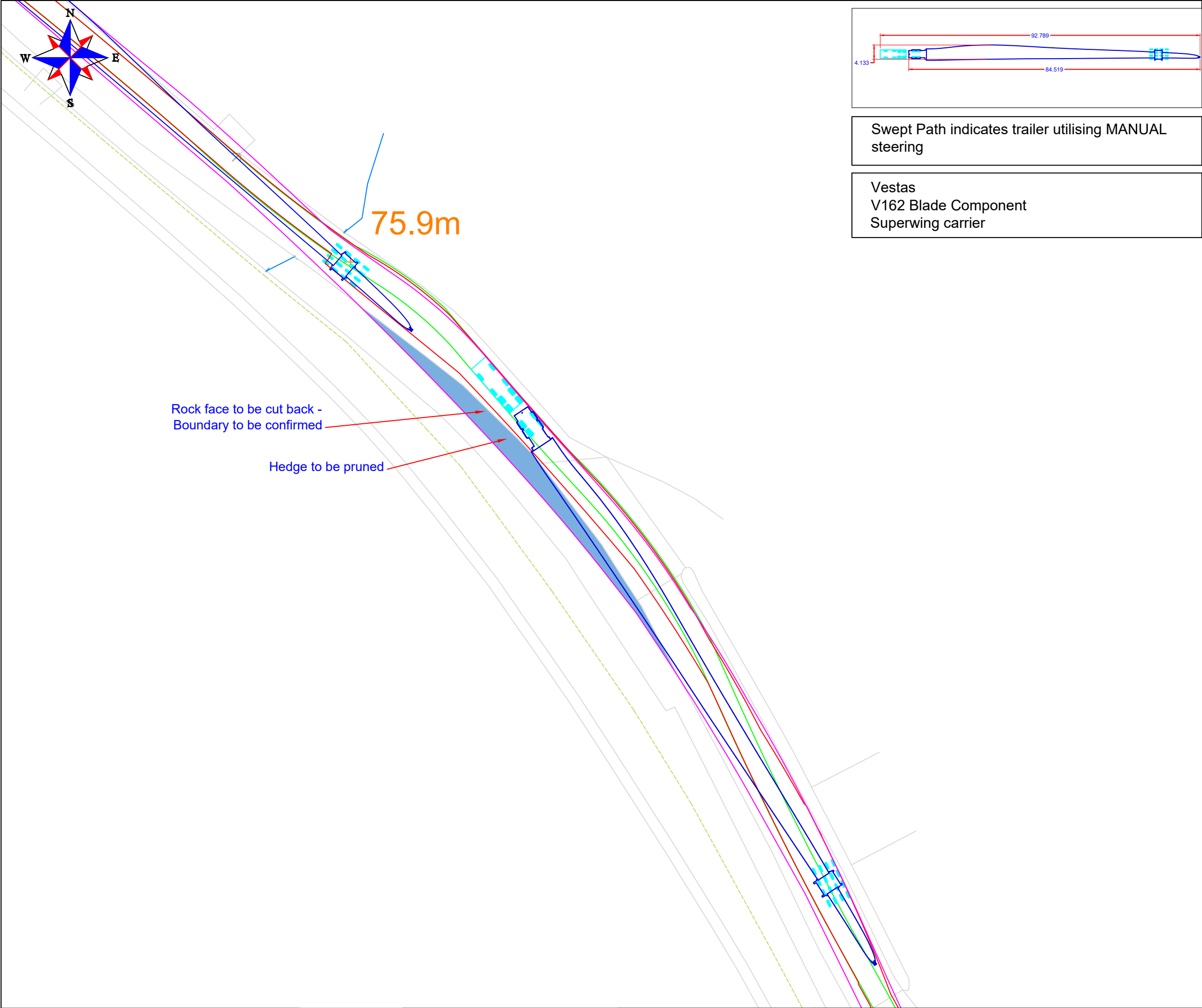
- The loaded vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 39469 61514

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
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- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DRAWN A.COOKE		TITLE LEFT HAND BEND ON A835			
		DATE 27/02/2025		MAPPING ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER STATKRAFT UK LTD	
		SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLETT		SITE CARN FEARN WIND FARM	DWG. NO. 408561-340A1.1




Continue on A835 to left bend.


****Caution****

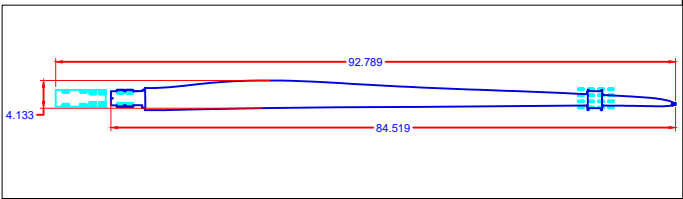
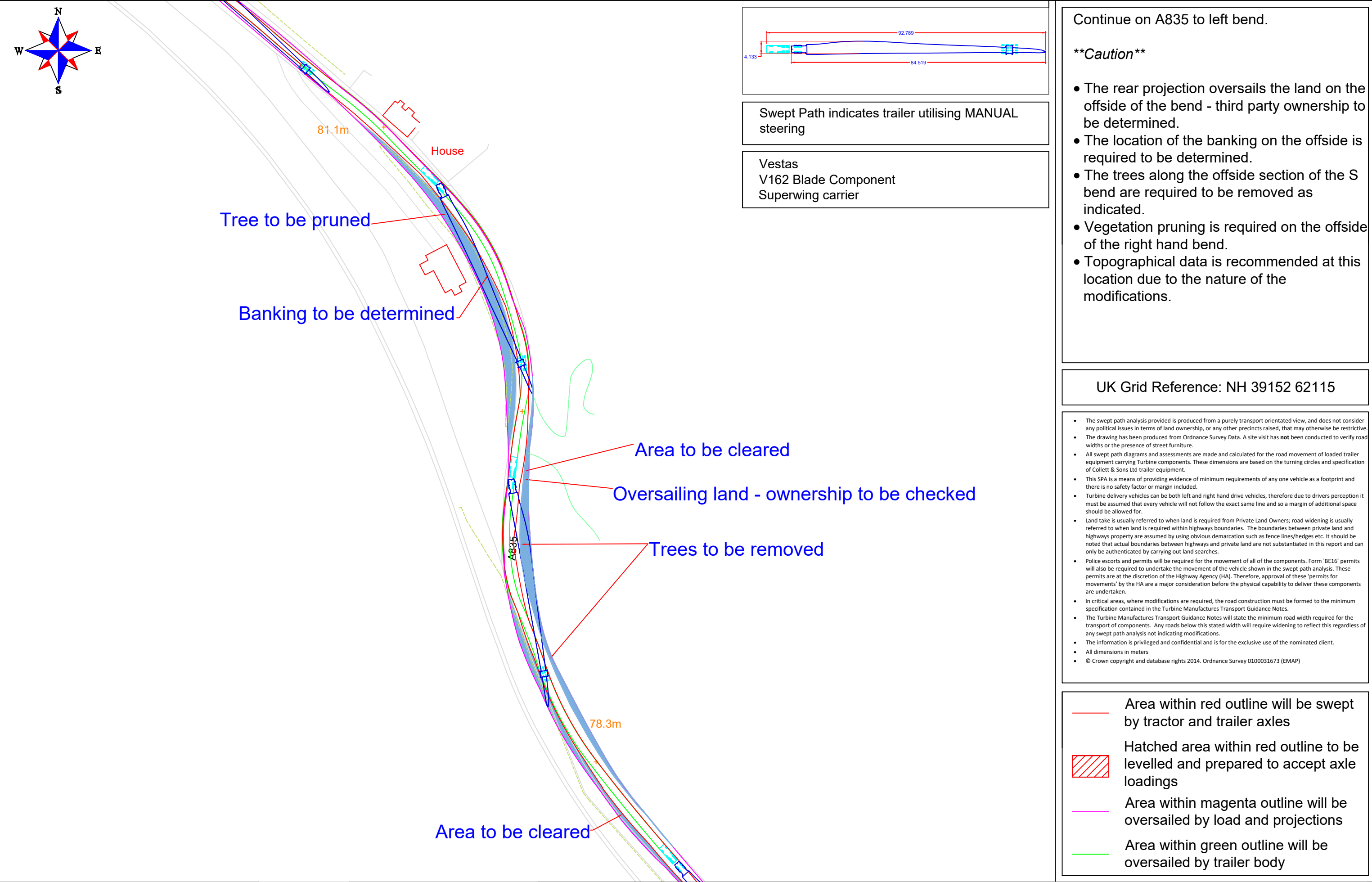
- The rock face boundary is required to be cut back - topographical data is recommended to confirm this.
- Trees and hedges are to be pruned on the nearside of the bend to allow the projections of the loaded blade to oversail.

UK Grid Reference: NH 39159 62011

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- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				LEFT HAND BEND ON A835												
	Victoria Terminal TEL: +44(0)8456 255288		DATE		27/02/2025		MAPPING		ORDNANCE SURVEY	Not Adjusted	CUSTOMER		STATKRAFT UK LTD								
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500	SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO.		408561-350A1.1	
Halifax, HX2 0DF WEB: www.collett.co.uk																					



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Continue on A835 to left bend.


****Caution****

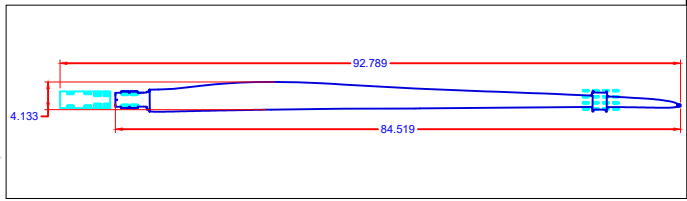
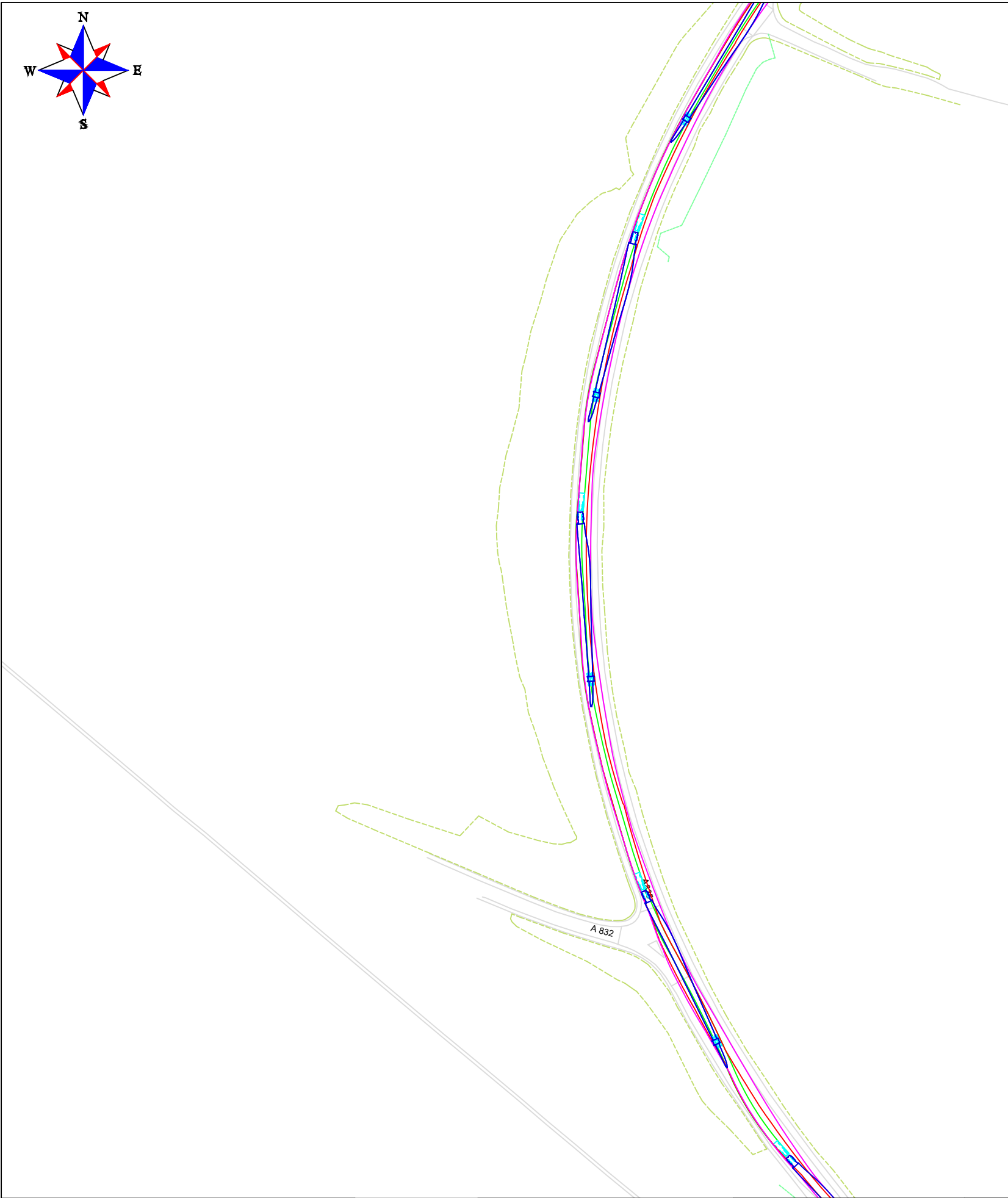
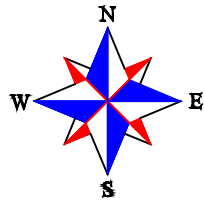
- The rear projection oversails the land on the offside of the bend - third party ownership to be determined.
- The location of the banking on the offside is required to be determined.
- The trees along the offside section of the S bend are required to be removed as indicated.
- Vegetation pruning is required on the offside of the right hand bend.
- Topographical data is recommended at this location due to the nature of the modifications.

UK Grid Reference: NH 39152 62115

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	COLLETT & SONS LIMITED		DRAWN		A.COOKE		TITLE		LEFT HAND BEND ON A835												
	Victoria Terminal TEL: +44(0)8456 255288		DATE		27/02/2025		MAPPING		ORDNANCE SURVEY <small>Not Adjusted</small>		CUSTOMER		STATKRAFT UK LTD								
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO.		408561-360A1.1
Halifax, HX2 0DF WEB: www.collett.co.uk																					



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to right hand bend.
Carry on through right hand bend on A835.

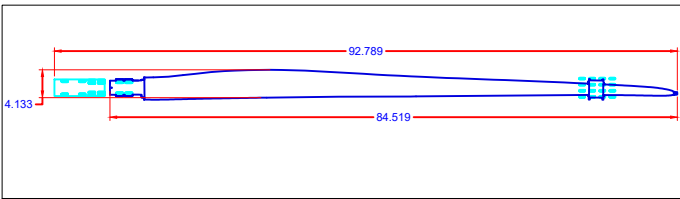
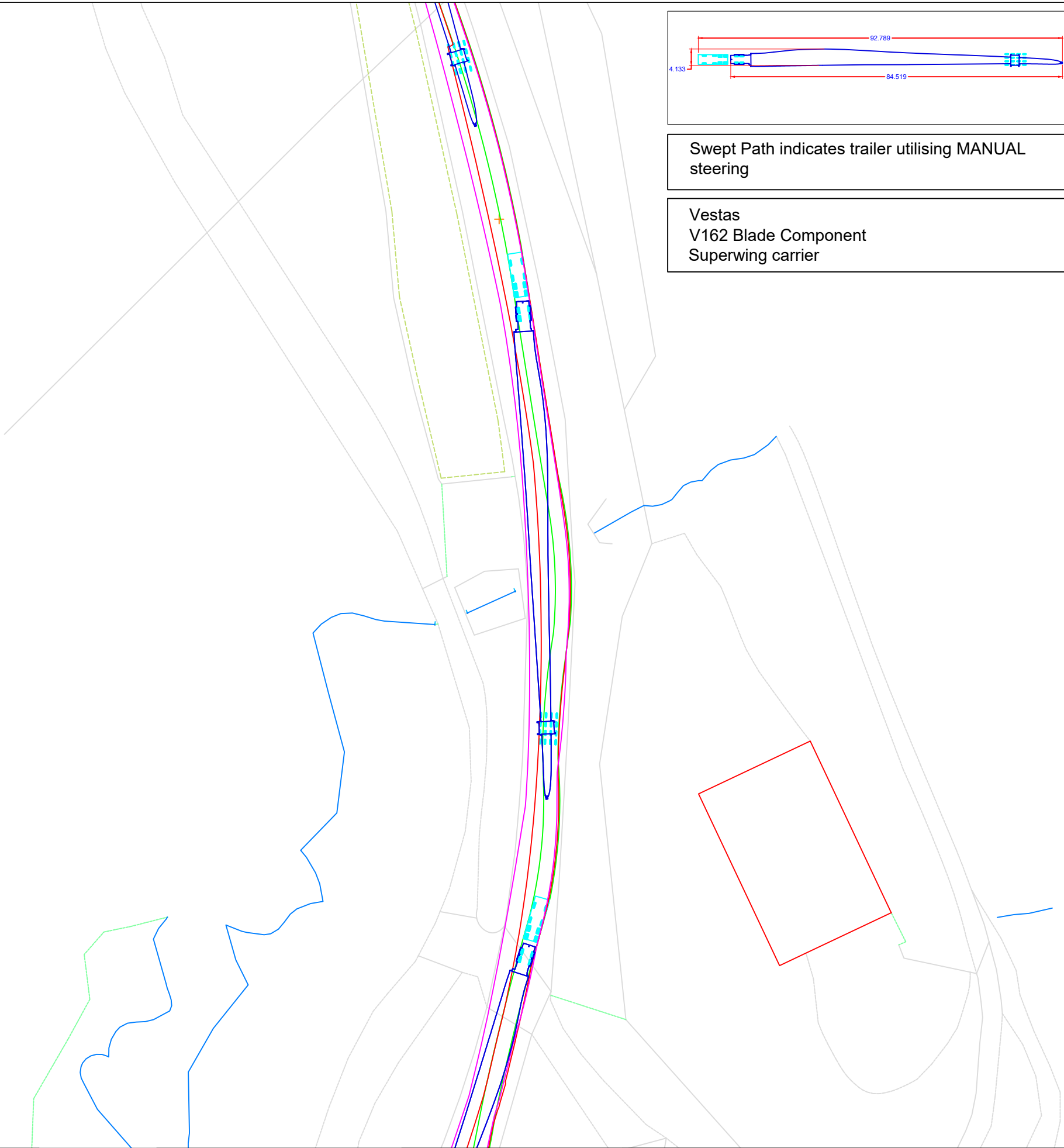
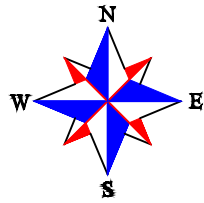
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 38885 62441

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Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

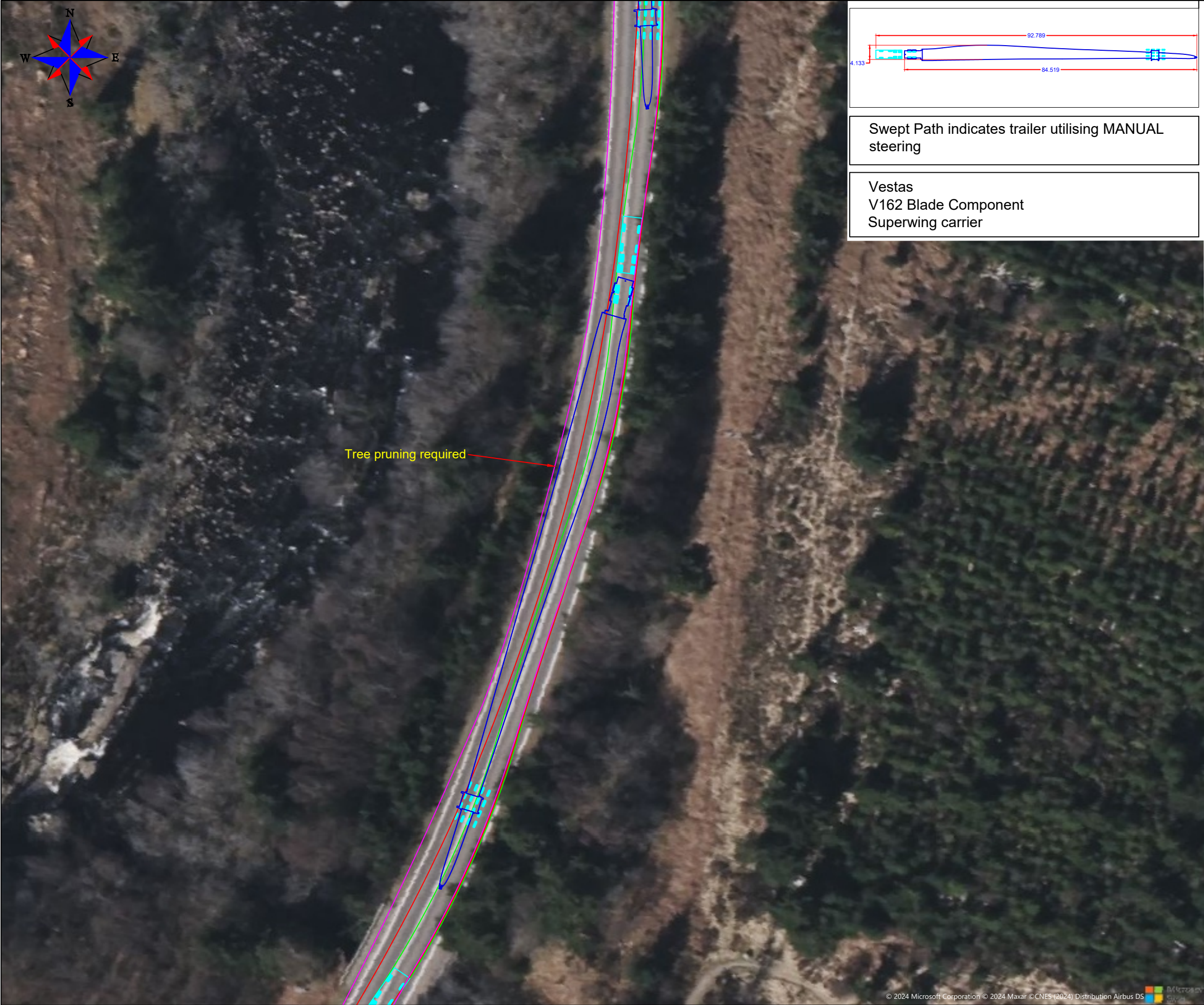
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 40303 63989

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- The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road widths or the presence of street furniture.
- All swept path diagrams and assessments are made and calculated for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons Ltd trailer equipment.
- This SPA is a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception it must be assumed that every vehicle will not follow the exact same line and so a margin of additional space should be allowed for.
- Land take is usually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required within highways boundaries. The boundaries between private land and highways property are assumed by using obvious demarcation such as fence lines/hedges etc. It should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carrying out land searches.
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



Continue on A835 to left hand bend.
Carry on through left hand bend on A835.

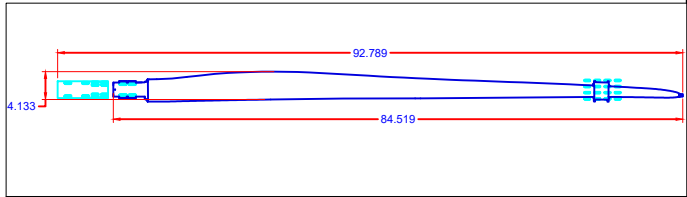
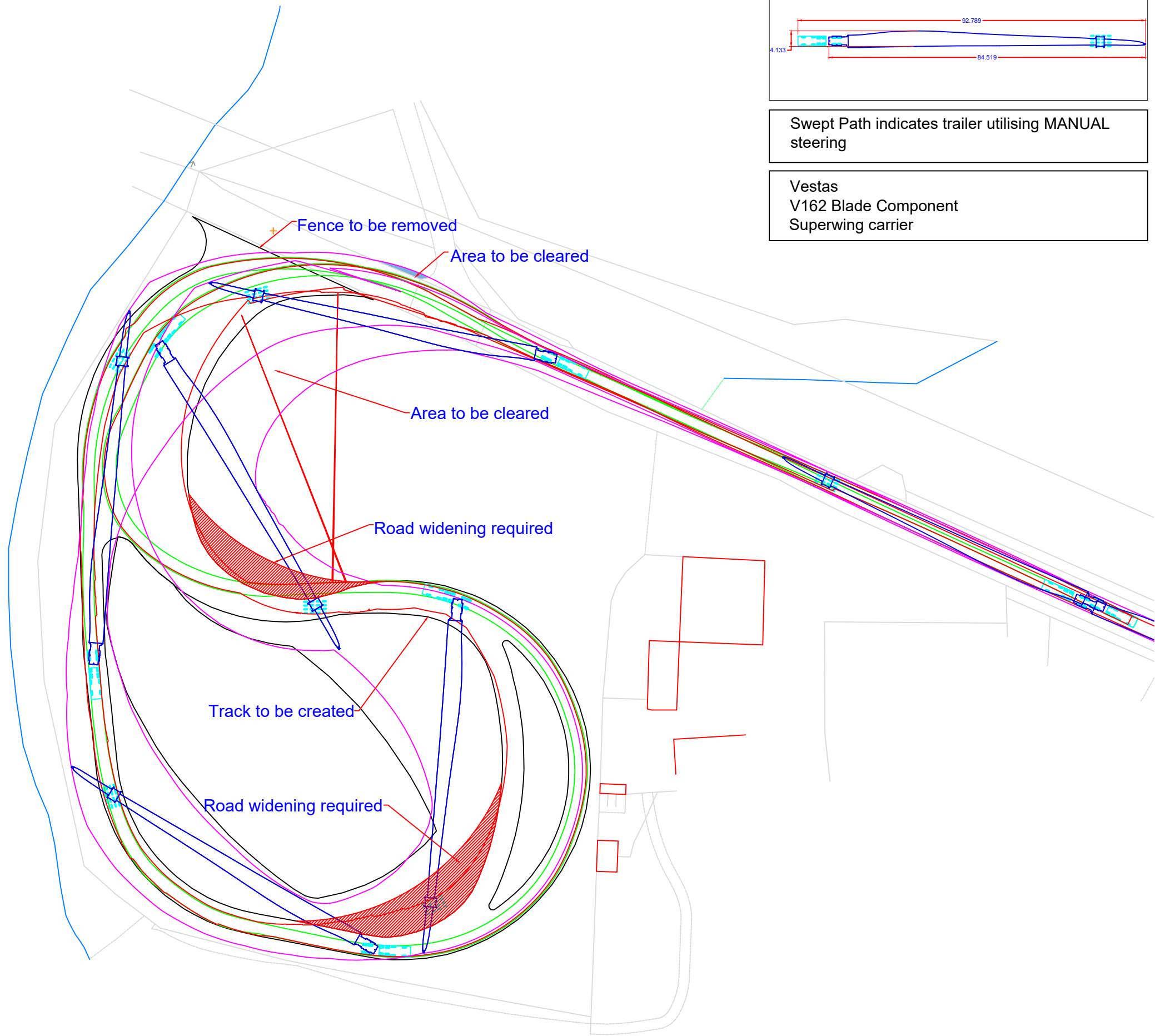
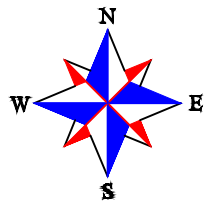
****Caution****

- Trees on the nearside of the bend are to be pruned to allow the loaded blade to oversail.

UK Grid Reference: NH 41199 67387

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- Area within green outline will be oversailed by trailer body



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Continue on A835 to proposed turning area.

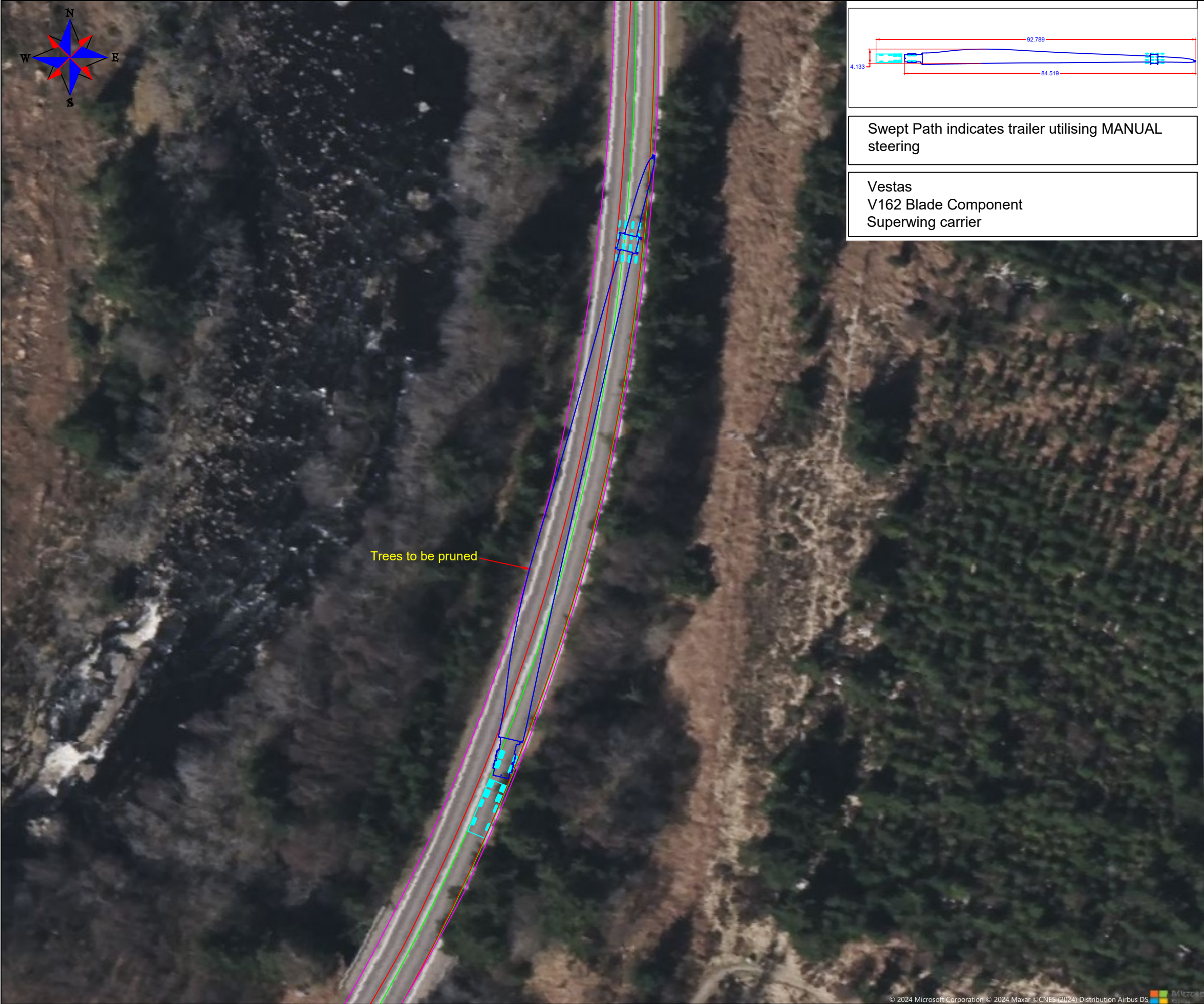
****Caution****

- Third party land required for the blade to utilise the proposed turning area.
- A suitable turning area is required to be constructed.
- Road widening on the provided turning area is required as indicated by the red hatching.
- The fence and any boundary features are required to be removed to allow the loaded vehicle access to the turning area. .

UK Grid Reference: NH 39891 69417

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
Continue on A835 to right hand bend.
Continue on A835 through right hand bend.

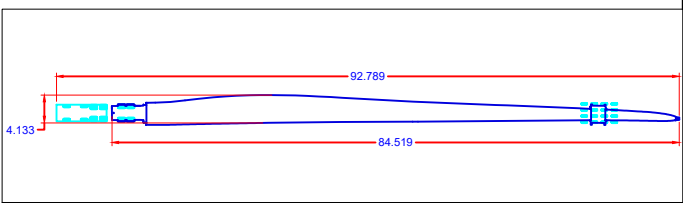
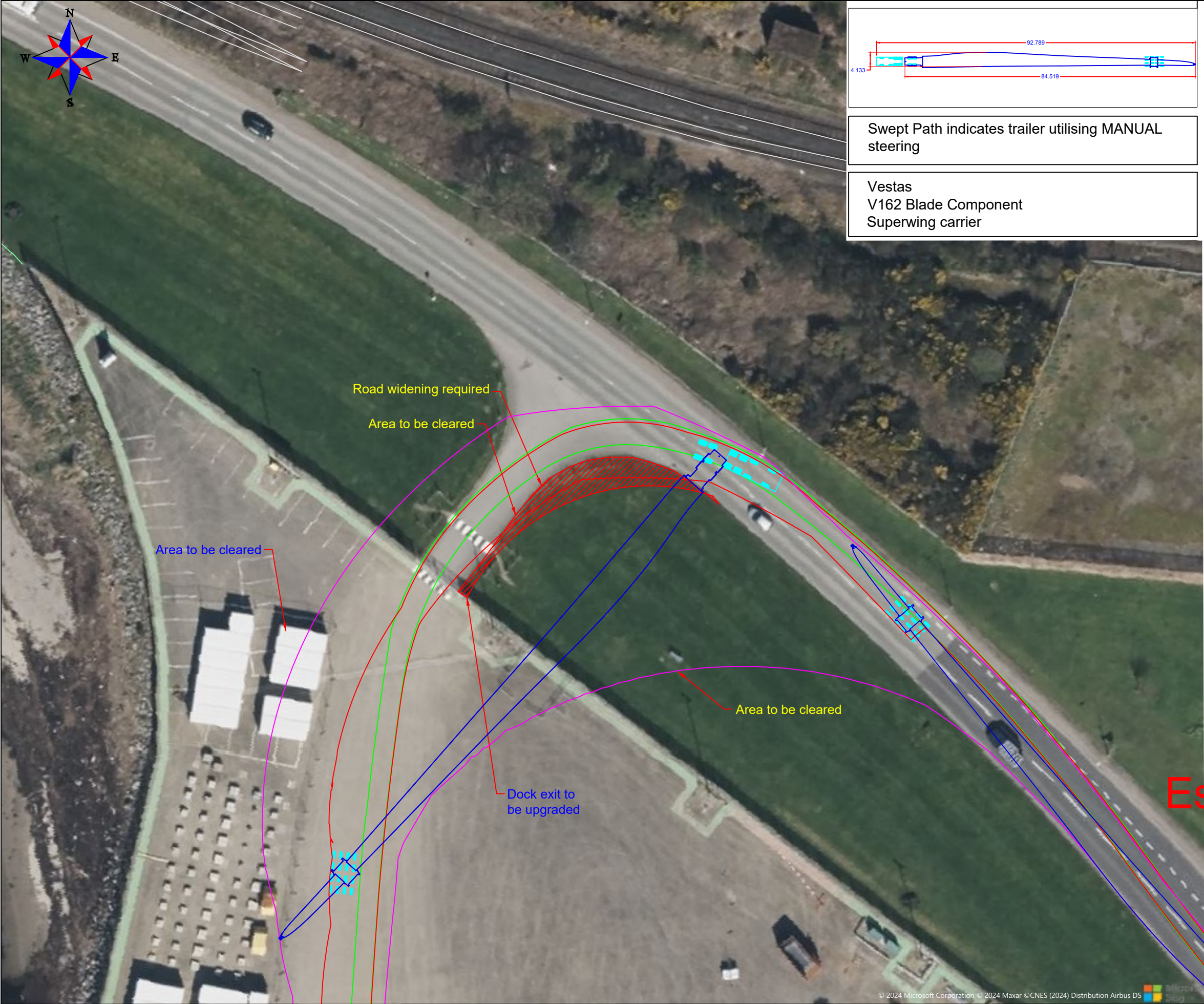
****Caution****

- Tree pruning on the offside of the road are to be pruned to allow the loaded blade to oversail.

UK Grid Reference: NH 41199 67387

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Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

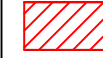
Exit Port of Invergordon onto B817.


****Caution****

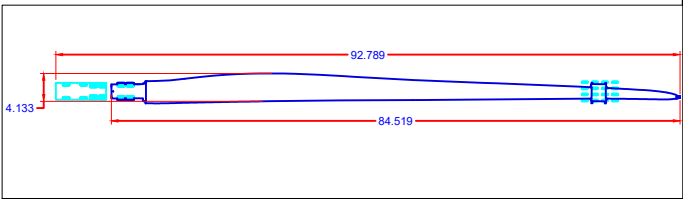
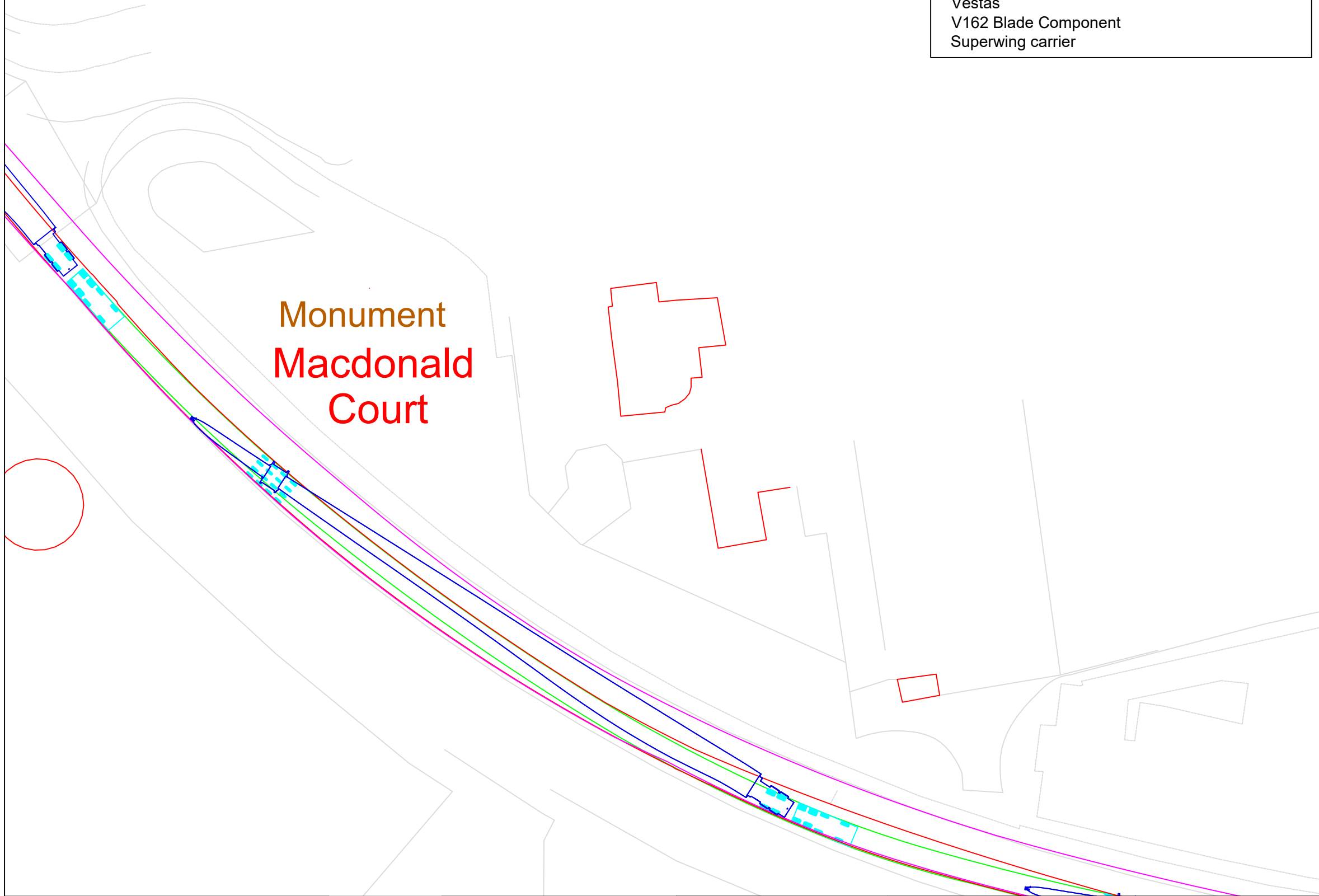
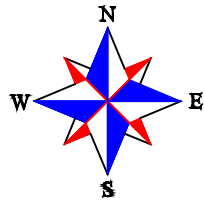
- The dock exit is required to be upgraded to allow the loaded vehicles to navigate out of the docks successfully.
- Road widening is required as indicated by the red hatching.
- The areas within the dock and either side of the junction are required to be cleared as indicated.

UK Grid Reference: NH 70216 68637

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- Area within green outline will be oversailed by trailer body

	COLLETT & SONS LIMITED		DRAWN	A.COOKE	TITLE				PORT EXIT / B817 JUNCTION												
	Victoria Terminal TEL: +44(0)8456 255288		DATE		07/03/2024		MAPPING		ORDNANCE SURVEY		Not Adjusted		CUSTOMER		STATKRAFT UK LTD						
	Albert Road FAX: +44(0)8456 255244		SCALE		1:500		SIZE		A3		PINCH POINT IDENTIFIED BY		COLLETT		SITE		CARN FEARN WIND FARM		DWG. NO.		408561-500A1.1
Halifax, HX2 0DF WEB: www.collett.co.uk																					



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on B817 through left hand bend.

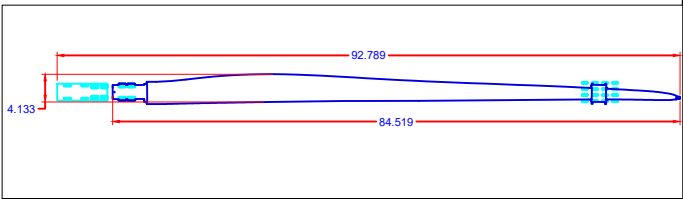
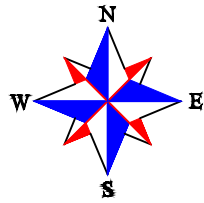
****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 70398 68469

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Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier

Continue on B817 through left hand bend.

****Caution****

- Traffic lights on both sides of the road are to be removed to allow the blade to oversail.
- 8 Bollards on the nearside of the road are to be removed.
- The plant pots on the nearside are required to be relocated.

UK Grid Reference: NH 70800 68347

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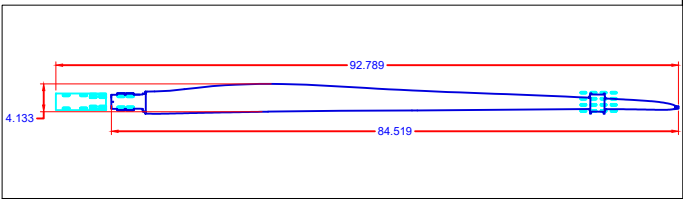
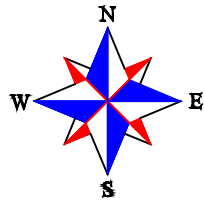


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DRAWN A.COOKE
DATE 27/02/2025
SCALE 1:750 SIZE A3

TITLE
MAPPING ORDNANCE SURVEY Not Adjusted
PINCH POINT IDENTIFIED BY COLLETT

LEFT HAND BEND ON B817
CUSTOMER STATKRAFT UK LTD
SITE CARN FEARN WIND FARM DWG. NO. 408561-520A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on B817 through right hand bend.

****Caution****

- Area within the blue hatch is to be cleared of all obstructions to allow the blade projections to oversail.

UK Grid Reference: NH 70931 68498

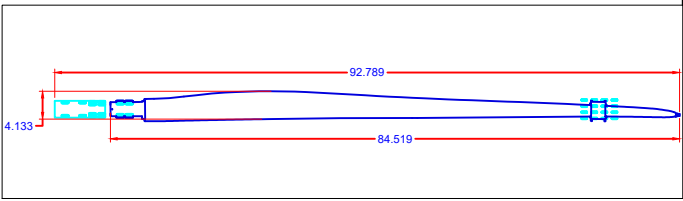
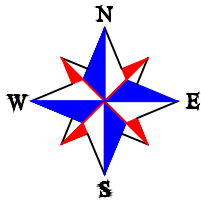
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Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE		RIGHT HAND BEND ON B817	
DATE	28/02/2025	MAPPING	ORDNANCE SURVEY	CUSTOMER	STATKRAFT UK LTD
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARN WIND FARM	DWG. NO.	408561-530A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on B817 through left hand bend.

****Caution****

- The loaded blade vehicle will navigate this section of route utilising manual steering.

UK Grid Reference: NH 71377 68608

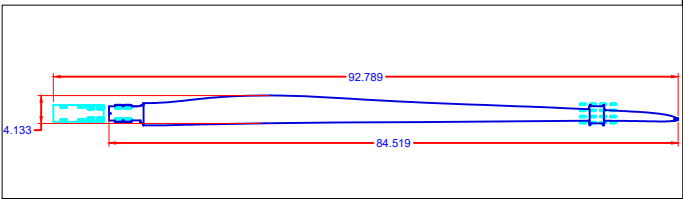
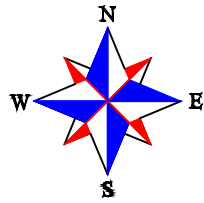
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- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

- Area within red outline will be swept by tractor and trailer axles
-  Hatched area within red outline to be levelled and prepared to accept axle loadings
- Area within magenta outline will be oversailed by load and projections
- Area within green outline will be oversailed by trailer body



COLLETT & SONS LIMITED
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Albert Road FAX: +44(0)8456 255244
Halifax, HX2 0DF WEB: www.collett.co.uk

DRAWN	A.COOKE	TITLE		LEFT HAND BEND ON B817	
DATE	28/02/2025	MAPPING	ORDNANCE SURVEY	CUSTOMER	STATKRAFT UK LTD
SCALE	1:750	SIZE	A3	PINCH POINT IDENTIFIED BY	COLLETT
		SITE	CARN FEARN WIND FARM	DWG. NO.	408561-540A1.1



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


At junction turn left onto unclassified road.

****Caution****

- Splitter islands are to be cleared of all obstruction.
- Street furniture is to be removed as indicated by the leaders.

UK Grid Reference: NH 72124 69415

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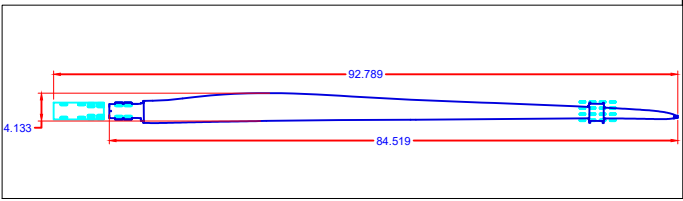
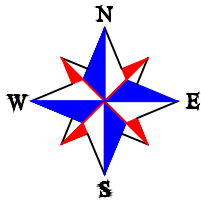
- Lamp post to be removed
- Traffic light to be removed
- Lamp post to be removed
- Traffic light to be removed
- Lamp post to be removed
- Road sign to be removed

Outfall



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DRAWN	A.COOKE	TITLE	B817 / UNCLASSIFIED ROAD JUNCTION	
DATE	28/02/2025	MAPPING	ORDNANCE SURVEY <small>Not Adjusted</small>	CUSTOMER
SCALE	1:500	SIZE	A3	
PINCH POINT IDENTIFIED BY	COLLETT	SITE	CARN FEARN A WIND FARM	DWG. NO. 408561-550A1.1
		STATKRAFT UK LTD		



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on B817 through left hand bend.

****Caution****

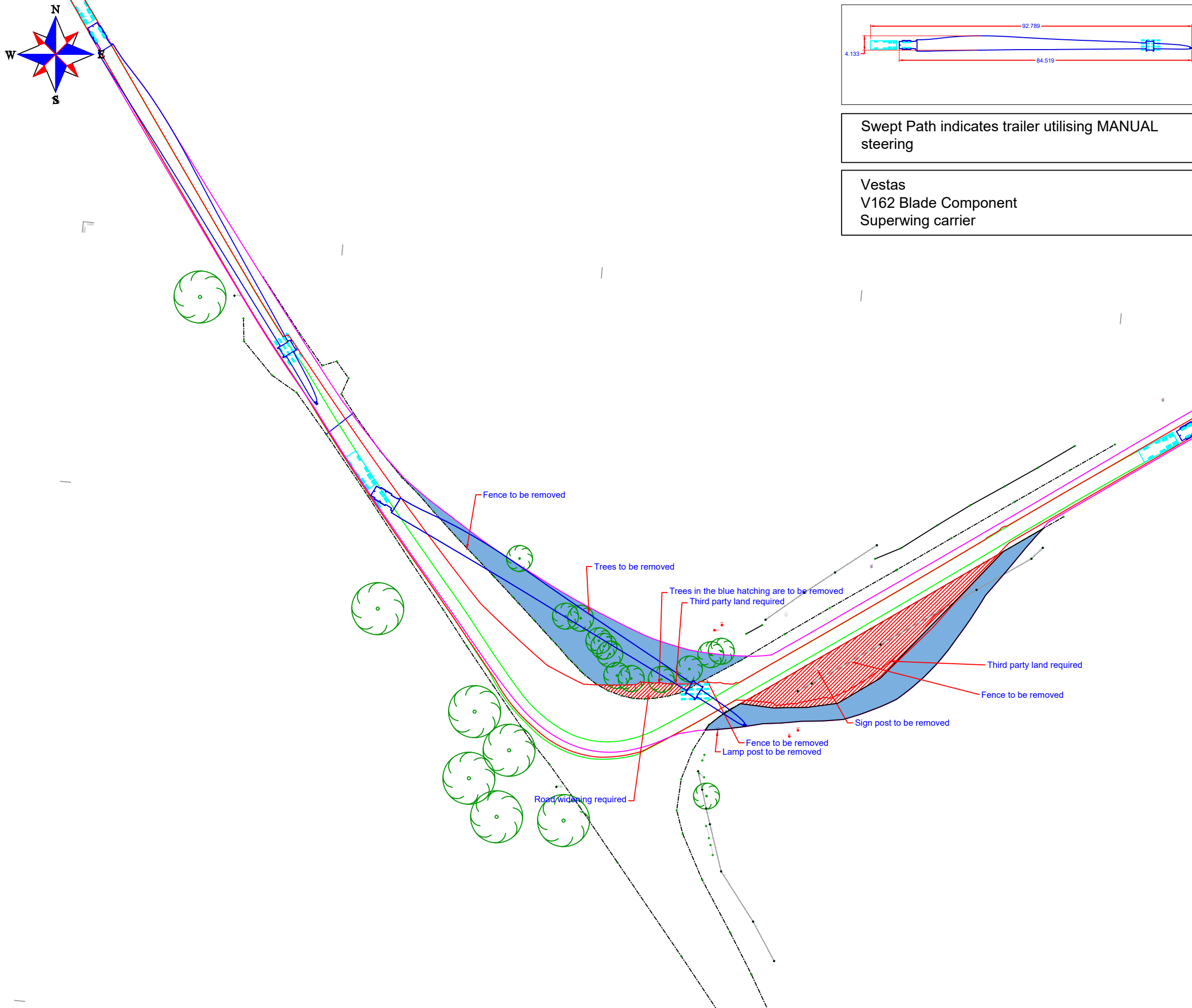
- Trees and vegetation are to be removed on the nearside of the road to allow the loaded blade projections to oversail.

UK Grid Reference: NH 71875 69953

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- Area within green outline will be oversailed by trailer body

Trees and vegetataion to be removed



Continue on unclassified road to junction with Academy Road.
At junction turn right onto Academy Road.

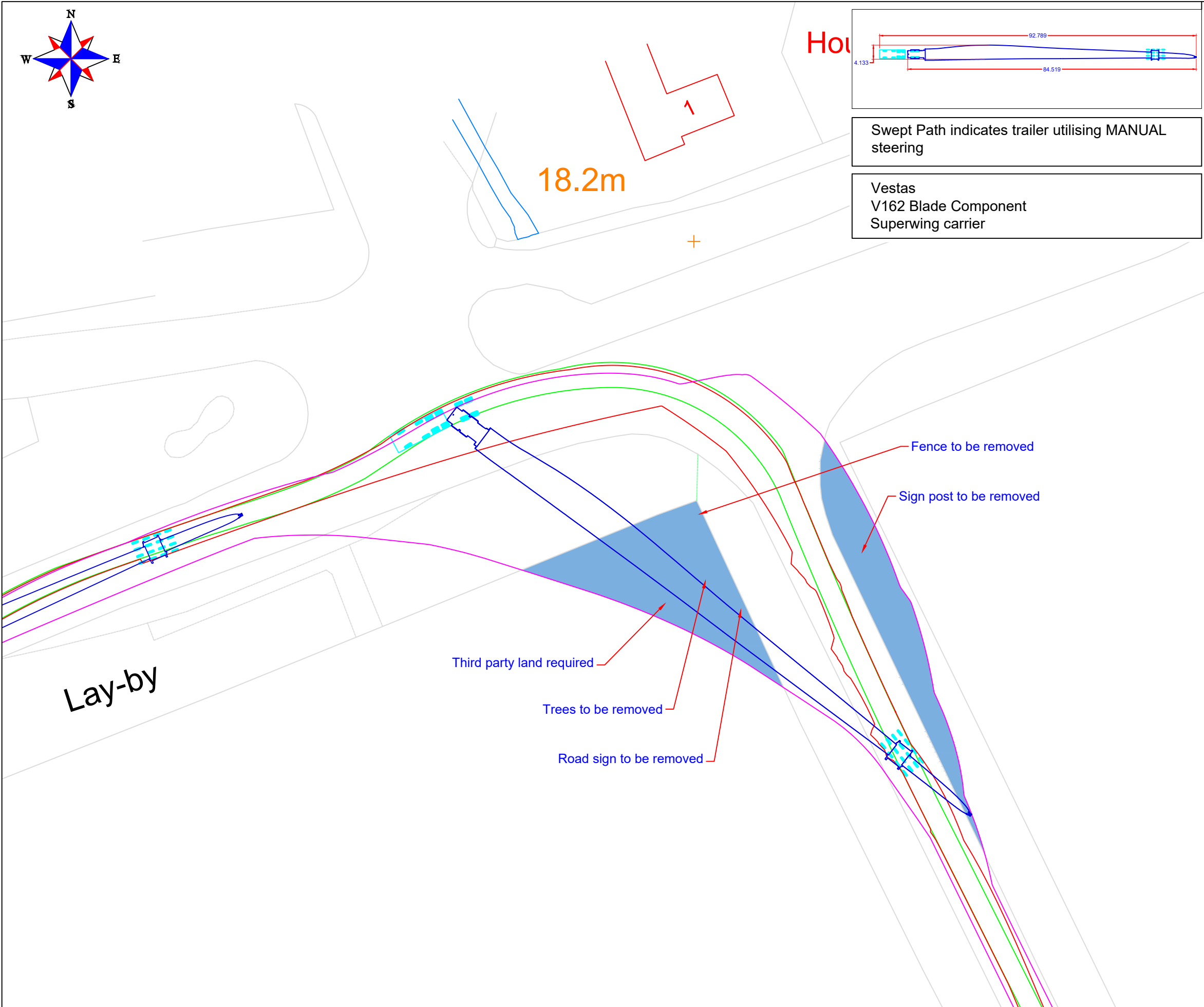
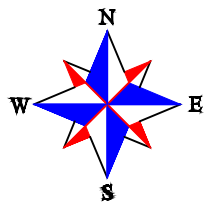
****Caution****

- Third party land is required to stop the loaded blade from colliding with the electric poles.
- Road widening is required as indicated by the red hatching.
- Lamp post is to be removed on the nearside of the bend.
- Trees are to be removed as indicated required to be removed.
- Boundary fence is to be removed.
- The sign post on the nearside is required to be removed.

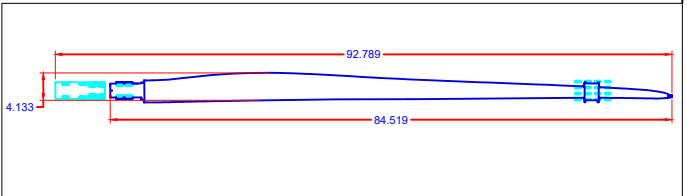
UK Grid Reference: NH 70723 69799

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House



Swept Path indicates trailer utilising MANUAL steering

Vestas
V162 Blade Component
Superwing carrier


Continue on Academy Road to junction with A9.
At junction turn right onto A9.

****Caution****

- Oversailing third party land is required.
- Trees are to be removed on the nears of the road to allow the loaded blades projections to oversail.
- Road sign on the offside and nearside of the road is to be removed to allow the rear projection of the blade to oversail this location.

UK Grid Reference: NH 70074 70903

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