

# EXPERTS IN MOTION



Route Access Survey - 408561

Carn Ferna Wind Farm.

Statkraft UK Ltd. February 2025





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### **Report Details**

#### **Report for**

Andrew Marley Statkraft UK Ltd 10 Montrose Street Glasgow G11RE

#### Attendees of Survey Spencer Budgen & Alfie Cooke

Time / Date of Survey: 30th October 2024

#### General weather conditions: Mixed

**Issued by** Alfie Cooke

Approved by Steven Mangham

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#### **Document Revisions**

No	Date	Details

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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 Google 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-authorised) 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 Oversaling 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

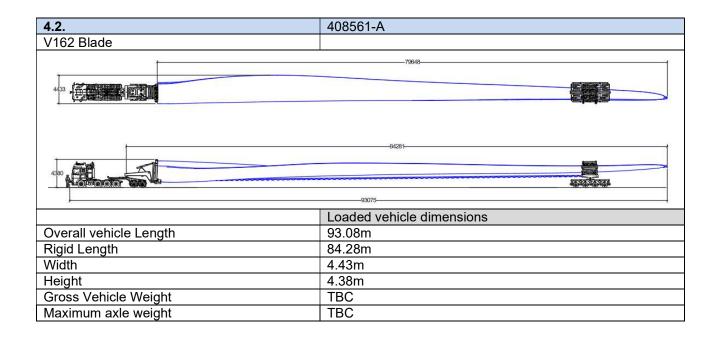
- 2.1 Collett & Sons Ltd. were commissioned by Statkraft to undertake an abnormal loads route access study to assess the transportation of a Vestas V162 to Carn Fearna Wind Farm.
- **2.2** The road routes as detailed herein are for the road transport of the turbine components identified in Section 4.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

### 3. Candidate Abnormal Loads

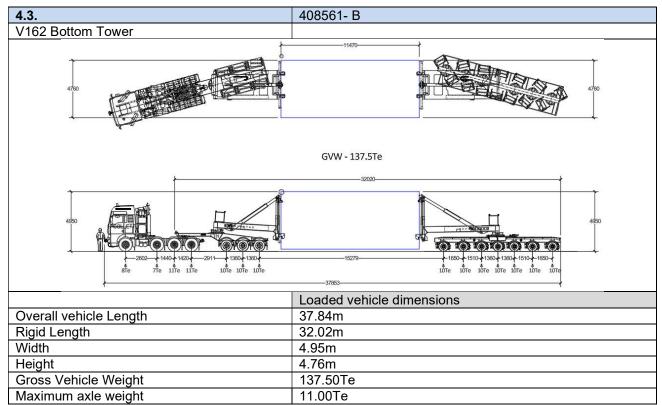
**3.1.** The specification of this turbine was supplied by Statkraft.

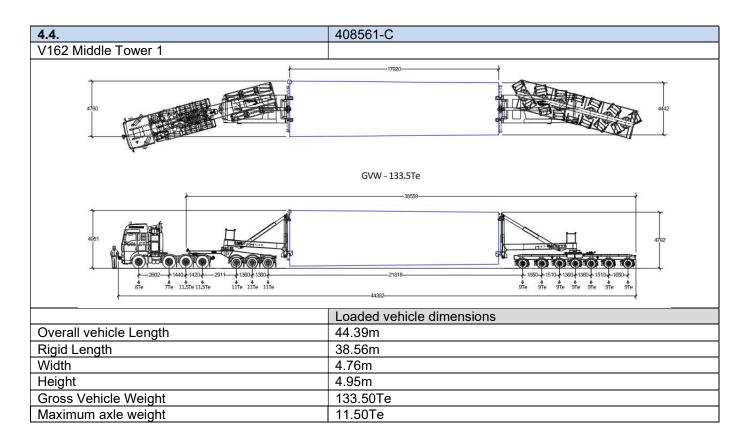
#### 4. Abnormal Indivisible Load Profiles

**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.

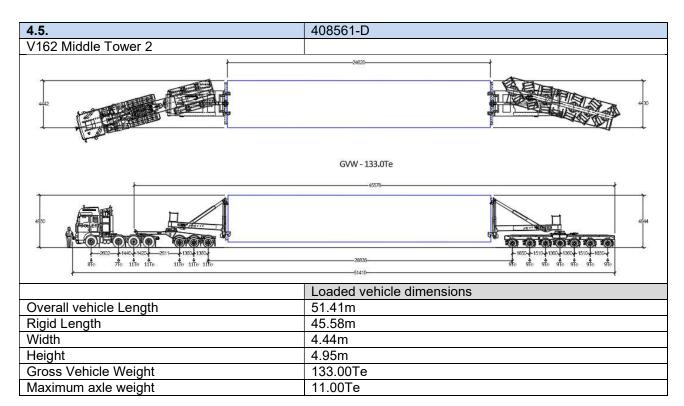


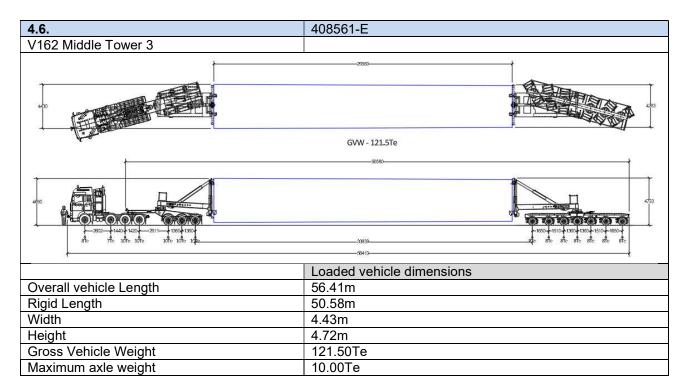






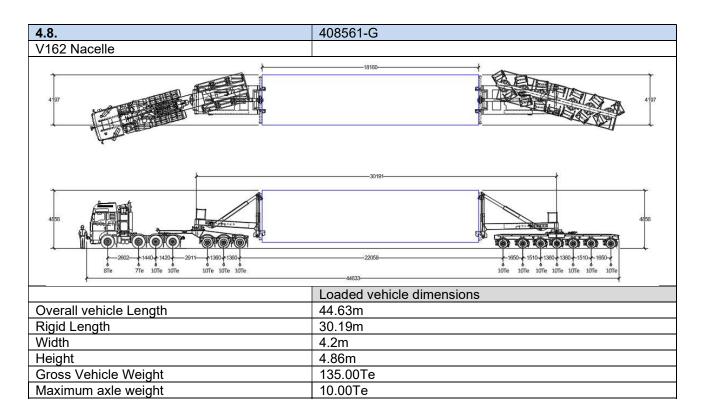




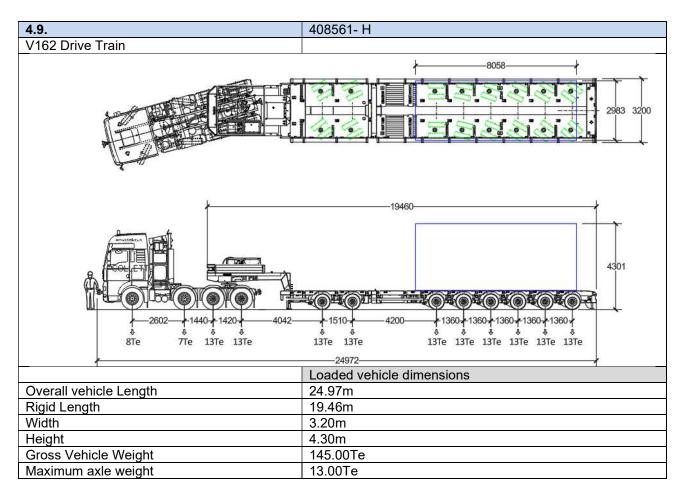


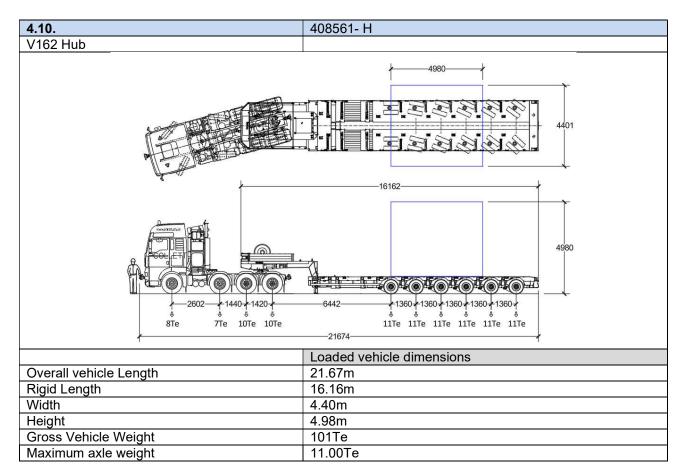


4.7.	408561-F
V162 Top Tower	
the second se	GVW - 117Te
· · · · · · · · · · · · · · · · · · ·	- 3007
	Loaded vehicle dimensions
Overall vehicle Length	58.52m
Rigid Length	52.69m
Width	4.17m
Height	4.72m
Gross Vehicle Weight	117.00Te
Maximum axle weight	9.00Te











## 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

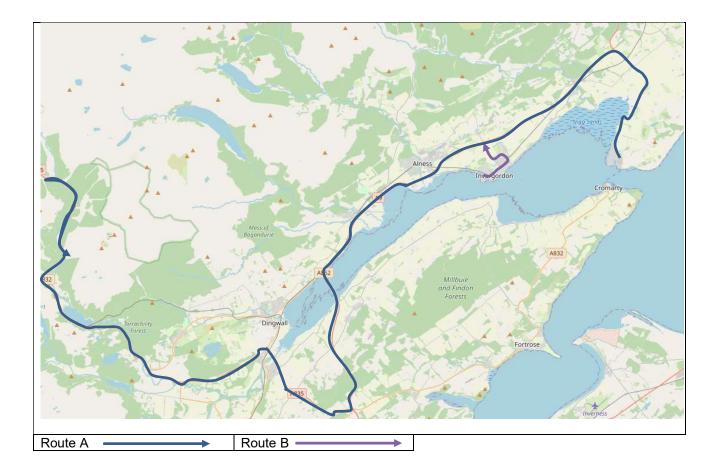
The relevant authorities have been contacted but at the time of the report issue, no responses from these authorities have been received.



#### 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



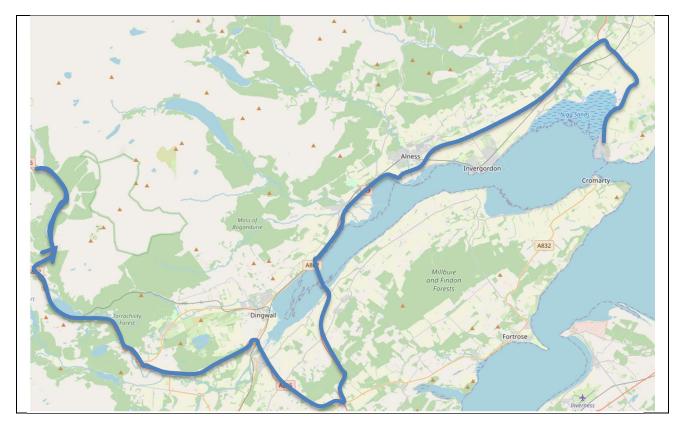


## 7. Route A Assessment

## 7.1. Route A

Start Location	Port Of Nigg	Distance of Route	Km	Miles			
Via:	B9175/A9/A835	Distance of Route	90.2	56			
Exit Nigg Port a	nd turn left onto B9175;						
Continue on B9 <sup>2</sup>	175 to Nigg roundabout						
• At roundabout, t	ake first exit onto A9						
Continue on the	A9 to Ardullie roundabout						
At roundabout ta	ake first exit onto A9						
Continue on A9	to Tore roundabout						
At roundabout ta	<ul> <li>At roundabout take third exit against the flow of traffic onto A835</li> </ul>						
Continue on A9 to Maryburgh roundabout							
<ul> <li>Continue on A835 to proposed turning area at Inchbae lodge</li> </ul>							
After turning is c	complete head back down the A8	335 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







	ER	7.4.1	LOCA	ATION	NIGG PORT EXIT
DIRECTION		Exit the port onto the B91	.75		
GRID REFEREN	ICE	NH 79375 70031			
MODIFICATION	N AN[	DESCRIPTION		РНОТС	DGRAPH OF LOCATION
		indicates that the tree local area is to be upgraded.	ation		on of tree to
			ł		Veiw prior to exit of port
					View after exit
		April	lView	of Locat	tion
FURTHER INVE	STIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis
RELATED DOCU	UMEN	NT NUMBERS			408561-10A1.1



ITEM NUMBER	7.4.2	LOC	ATION	RIGTH HAND BEND ON B9175			
DIRECTION	Continue straight at this lo	ocation	า				
GRID REFERENCE NH 79342 70486							
MODIFICATION AND			РНОТОС	GRAPH OF LOCATION			
	indicates that the loaded te this bend utilising manua	al					
_	tion of route are required t road edge to allow blade ate.	o be					
				View of prior to bend			
	/iew on bend			View after bend			
		i view	of Locati				
	ATION UNDERTAKEN?		YES	TYPE Swept path analysis			
RELATED DOCUMEN				408561-20A1.1			



	7 4 2					
ITEM NUMBER	7.4.3		ATION	LEFT HAND BEND ON B9175		
DIRECTION	Continue straight at this lo	ocatior	1			
GRID REFERENCE       NH 79494 70950         MODIFICATION AND DESCRIPTION       PHOTOGRAPH OF LOCATION						
	indicates that the loaded		PHOTOG	GRAPH OF LOCATION		
vehicles will navigat steering. Trees along this sec	e this bend utilising manua tion of route are required t road edge to allow blade					
				View of road		
	/iew on bend			View after bend		
	Aria	View	of Locatio			
	Aeria ATION UNDERTAKEN?	i view	of Locatio YES	on TYPE Swept path analysis		
RELATED DOCUMEN			TES	408561-30A1.1		



ITEM NUMBER	7.4.4	LOC	ATION	RIGHT HAND BEND ON B9175
DIRECTION	Continue straight at this lo	cation		
GRID REFERENCE	NH 79434 71635			
MODIFICATION AND			PHOTOG	GRAPH OF LOCATION
vehicles will navigat steering.	indicates that the loaded e this bend utilising manual tion of route are required to			
	road edge to allow blade			
			NT P	View prior to bend
	/iew on bend			View after bend
		ii view	of Locatio YES	
RELATED DOCUMEN	ATION UNDERTAKEN?		1E2	TYPE Swept path analysis 408561-40A1.1
RELATED DOCUMEN				400J01-40A1.1



ITEM NUMBER	7.4.5		ATION	RIGHT	HAND BEND ON B9175
DIRECTION	Continue straight at this lo	cation			
GRID REFERENCE	NH 79763 72130				
MODIFICATION AND	DESCRIPTION		PHOTOG	GRAPH OF LOC	CATION
vehicles will navigat steering. Trees along this sec	indicates that the loaded e this bend utilising manual tion of route are required to road edge to allow blade ate				
				View o	of prior to bend
	View on bend		of Locatio		w after bend
FURTHER INVESTIGA	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMEN			123		3561-50A1.1
				100	



	710					
	7.4.6		ATION	LEFI	HAND BEND ON B9175	
	Continue straight at this lo	ocation	)			
GRID REFERENCE     NH 80490 72505       MODIFICATION AND DESCRIPTION     PHOTOGRAPH OF LOCATION						
		T ic	PHOTOG	SKAPH OF LO	CATION	
	indicates that tree pruning section of route to allow th rsail.					
		-	1.2.2	View	of prior to bend	
		Ĩ				
	/iew on bend			Vie	ew after bend	
	Side in		8			
	final state of the	LV:a:				
		i view	of Locatio		Swont noth and wis	
	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis	
RELATED DOCUMEN	NT NUIVIDEKS			408	8561-60A1.1	



DUDEC		7.4.7	200,11	ION	RIG	HT HAND BEND ON B9175
DIREC	TION	Continue straight at this lo	ocation			
GRID	REFERENCE	NH 80583 72800				
MODI	FICATION ANI	D DESCRIPTION	P	PHOTOGE	RAPH OF	LOCATION
		indicates the loaded vehic and utilising manual steerin				AT .
prune		tion of route are required t road edge to allow blade gate	to be			
					Vi	ew prior to bend
				Ť		
	١	/iew on bend			١	/iew after bend
EU DE			al View of			
		ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELAT	ED DOCUME	NT NUMBERS				408561-70A1.1



ITEM NUMBER	7.4.8	LOCA	ATION	LONG LEFT-HAND BEND ON B9175
DIRECTION	Continue straight at this lo	catior	<u>_</u>	
GRID REFERENCE	NH 81665 74348 - NH 8	1450 7	75221	
MODIFICATION AND			РНОТО	GRAPH OF LOCATION
vehicles will navigat steering. Trees along this sec	indicates that the loaded e this bend utilising manua tion of route are required t road edge to allow blade ate			
				View prior to bend
14				
<u>ا</u>	/iew on bend			View after bend
		l View	of Locati	
	ATION UNDERTAKEN?		YES	TYPE Swept path analysis
RELATED DOCUMEN				408561-80A1.1



	ITEM NUMBER	7.4.9	LOC	ATION	LEFT HAND BEND ON B9175		
	DIRECTION	Continue straight at this lo	ocation	1			
	GRID REFERENCE	NH 81267 75504					
	MODIFICATION AND			РНОТОС	GRAPH OF LOCATION		
	Swept path analysis indicates that the loaded vehicles will navigate this bend utilising manual steering. Trees along this section of route are required to be						
		road edge to allow blade	o be				
_					View prior to bend		
	N	/iew on bend			View after bend		
	View on bend     View after bend         View of Location						
	FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis		
ľ	RELATED DOCUME	NT NUMBERS			408561-90A1.1		
				L			



ITEM NUMBER	7.4.10	LOC	ATION	RIGHT HAND BEND ON B9175		
DIRECTION	Continue straight at tis loo	cation				
GRID REFERENCE	NH 81037 75598					
MODIFICATION AN			РНОТО	GRAPH OF LOCATION		
	s indicates that the loaded te this bend utilising manua	11				
	ction of route are required t road edge to allow blade gate	o be				
				View prior to bend		
,	View on bend			View after bend		
View on bend View after bend View after bend Aerial View of Location						
		I View				
	ATION UNDERTAKEN?		YES	TYPE         Swept path analysis		
RELATED DOCUME	NT NUMBERS			408561-100A1.1		



_				EXPERTS IN MOTION		
ITEM NUMBER	7.4.11	LOC	ATION	NIGG ROUNDBAOUT		
DIRECTION	Take the 1 <sup>st</sup> exit onto the <i>i</i>	49				
GRID REFERENCE	NH 79383 77180					
MODIFICATION AND	DESCRIPTION		PHOTC	OGRAPH OF LOCATION		
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.				Road widening required.		
Lamp posts are to b the road.	e removed on the nearside	of				
Road signs are to be reservation of the re	e removed on the central oundabout.					
	ervation are to be pruned t ction of the loaded blade to			view prior to roundabout		
oversall.						
Viev	w on roundabout			View after roundabout		
View on roundabout     View after roundabout						
		l View	of Locat			
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis		
RELATED DOCUMEN	NT NUMBERS			408561-110A1.1		







				EXPERTS IN MOTION
ITEM NUMBER	7.5.1	LOCA	TION	ARDULLIE ROUNDABOUT
DIRECTION	Take first exit onto A9			
GRID REFERENCE	NH 58740 62252			
MODIFICATION AN			РНОТО	OGRAPH OF LOCATION
required on the cer roundabout. Lamp post on the n roundabout's entry blade projections to The road signs on th to be removed. Tree pruning is requ	indicates that road widen itral reservation of the earside of the road at the is to be removed to allow o oversail. ne roundabout exit are req uired on the roundabout to ade to utilise the road wide	the uired		Lamp post to be removed.
required.		6		View prior to roundabout
Road widening required	prune	-d.		Contraction of the removed.
Viev	v on roundabout			View after roundabout
The senden riter.	452	A862	Ardulle Rose	tion
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis
RELATED DOCUME				408561-120A1.1



ITEM NUMBER	7.5.2	LOCA	TION	TORE ROUNDABOUT		
DIRECTION	Take third exit onto A83	5				
GRID REFERENCE	NH 60254 52469					
MODIFICATION AN	ID DESCRIPTION		PHOT	OGRAPH OF LOCATION		
Swept path analysis indicates that road widening is required on the roundabout and both entry and exit splitter islands. Splitter islands at the entry and exit of the roundabout are to be cleared of and obstructions.				ad sign to removed		
Lamp posts on the roundabout are to	central reservation of the be removed.	2				
-	de of the road is to be the loaded blade to oversa	ail	G	p post to emoved		
Tree pruning is req	uired on the roundabout.		View prior to roundabout			
Road widening required	Jone Bar	AND DESCRIPTION	cle	Lamp post to be removed Road sign to be removed		
Viev	v on roundabout			View after roundabout		
	Primary Sehool () ) Bure-WaterInternational CENT - L'Gray Groundworks ()	rial Vice	woffe	Taylos Tails O Ago ToreService Statist O Ago Ago Ago Ago Ago Ago Ago Ago Ago Ago		
		rial Vie	w of Lo			
	GATION UNDERTAKEN?		YES	TYPE   Swept path analysis		
RELATED DOCUME	INT NUIVIBERS			408561-130A1.1		



ITEM NUMBER	7.5.3		ATION	MARYBURGH ROUNDABOUT
DIRECTION	Take second exit onto A83	5		
GRID REFERENCE	NH 54329 56974			
MODIFICATION ANI			РНОТО	OGRAPH OF LOCATION
	dicates that road widening is		Tree to	
Trees are to be remove the roundabout and to allow the loaded blad Lamp post on the near to allow the loaded blad Road signs are to be ro of the roundabout, sp	al reservation of the roundabo ved on the central reservation he near and offside of the road e to oversail this location. rside of the road are to be ren ade to oversail. emoved on the central reserva- litter island and on the offside blade to navigate this location	of d to noved ation	remove	ed.
			Partition and the	View prior to roundabout
Trees to be removed.	Lamp post be remove			signs to moved.
View	prior to roundabout		L	View on roundabout
	Road signs be removed			
	after roundabout			Ariel view of location
	ATION UNDERTAKEN?		YES	TYPE Swept path analysis
RELATED DOCUMEN	NT NUMBERS			408561-140A1.1



## 7.6. Map extract of survey locations





ITEM NUMBER	7.6.1	LOCATION	RIGH	T HAND BEND ON A835
DIRECTION	Continue on A835			
GRID REFERENCE	NH 46033 55519			
MODIFICATION ANI			GRAPH OF LC	OCATION
to be cleared and le	indicates that Splitter isla	and is		
			Viev	v prior to bend
	View on bend		Vie	ew after bend
			tion line line line line line line line lin	
	Δοr	ial View of Locat		
EURTHER INVESTIG	Aer ATION UNDERTAKEN?	ial View of Locat YES	TYPE	Swept Path Analysis



ITEM NUM	/IBER	7.6.2	LOC	ATION	RIGHT HAND BEND ON A835		
DIRECTION		Continue on A835		•			
GRID REFER	ENCE	NH 45866 55762					
		D DESCRIPTION		РНОТО	OGRAPH OF LOCATION		
vehicle will	Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.				<image/>		
		viau aa haad					
	-	View on bend	<b>N</b> 484		View after bend		
	Contin War Memorial Contin War Memorial B34 B34 B34 B34 B34 B34 B34 B34						
	Ser 10	Aeria		of Locat	tion		
		ATION UNDERTAKEN?	i view	YES			
		NT NUMBERS		163	TYPE Swept path analysis 408561-160A1.1		
INCLATED DC					400501-100A1.1		



ITEM NUMBER	7.6.3	LOC	ATION	S-BEND ON A835		
DIRECTION	Continue on A835					
GRID REFERENCE	NH 45845 55969					
MODIFICATION AN	D DESCRIPTION		ΡΗΟΤΟ	OGRAPH OF LOCATION		
is required to preve	s indicates that third party la ent the loaded blade collidir n the offside of the road.					
road.	equired on the nearside of t					
Fence to be remove	ed on the nearside of the ro	ad.				
-				View prior to bend		
	View on bend			View after bend		
View on bend     View after bend       Image: State of the st						
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis		
RELATED DOCUME			. 20	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	РНОТО	OGRAPH OF LOCATION	
	be removed on the rear projection of th Lamp post to be rer road. Topographical data	indicates telegraph pole offside of the road to allo ne loaded blade to oversai noved on the offside of th is recommended at this	w the il. le <b>Vertical</b>		
	location due to the land boundaries.	close proximity of third pa	arty	View prior to bend	
	Contraction of the local division of the loc		No.		
		ά h h			
_		/iew on bend		View after bend	
					*
	Contin Football		al View of Locat		
		ATION UNDERTAKEN?	YES	TYPE         Swept path analysis           4085 61 18041 1	
	<b>RELATED DOCUMEN</b>	I NUMBERS		408561-180A1.1	



ITEM NUMBER	7.6.5	LOC	ATION	LEFT HAND BEND ON A835				
DIRECTION								
GRID REFERENCE NH 45651 56286								
MODIFICATION ANI		PHOTOGRAPH OF LOCATION						
Swept path analysis indicates that 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.			View prior to bend					
View on bend			View after bend					
Black Mater	Contin Commu	A COCO						
		l View	of Locat					
FURTHER INVESTIGATION UNDERTAKEN?			YES	TYPE	Swept path analysis			
RELATED DOCUMEN	ELATED DOCUMENT NUMBERS			408561-190A1.1				

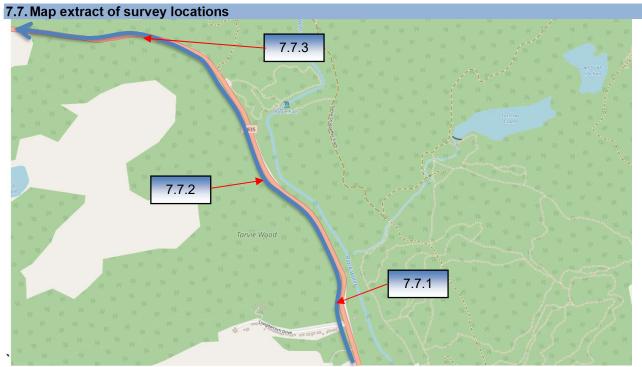


ITEM NUMBER	7.6.6	LOCA	ATION	BRIDGE ON LEFT HAND BEI	ND ON A835				
DIRECTION	Continue on A835								
GRID REFERENCE									
MODIFICATION ANI									
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.									
			View prior to bend						
N	/iew on bend	View after bend							
	SSE Contin	Self Con	Plack Water		Area				
Aerial View of Location									
	ATION UNDERTAKEN?		YES	TYPE Swept path	analysis				
RELATED DOCUMEN	NT 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 ANI		AT TOM THE ALL	GRAPH OF LOCATION	
	indicates that the loaded l e this section of route utilis	ing	View prior to bend	
	Road sign be remov	red.		
N	/iew on bend		View after bend	
	Aria	View of Locati		
		Il View of Location		
	ATION UNDERTAKEN?	YES	TYPE Swept path analysis	
RELATED DOCUME	NT NUIVIBERS		408561-210A1.1	





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ITEM NUMBER	7.7.1	LOCA	TION	RIG	HT HAND BEND ON A835
DIRECTION	Continue on A835				
GRID REFERENCE	NH 44797 57292				
MODIFICATION ANI			PHOTOG	RAPH OF L	OCATION
Swept path analysis the offside of the ro projections of the lo location. Tree pruning is requ	indicates that the road sig bad is to be removed to allo baded blade to oversail this uired on both the offside ar d to allow the loaded blade	ow nd	PHOTOE	SRAPH OF L	OCATION
		+		Vie	ew prior to bend
Tree pruning required	Road sigr be remov				
1	/iew on bend			V	iew after bend
	Aeria	I View of	of Locatio	Black Water	
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
			. 23		
RELATED DOCUME			TES		Swept path analysis



				EXPERTS IN MOTION
ITEM NUMBER	7.7.2	LOCATIO		EFT HAND BEND ON A835
DIRECTION	Continue on A835			
GRID REFERENCE	NH 44791 57540			
MODIFICATION ANI			TOGRAPH OF	LOCATION
the nearside of the the loaded blade to Trees and vegetatic the offside and nea	indicates that the banking road is to be cut back to all oversail this location. on are to be removed on bo rside of the road to allow th o oversail this location.	low		Bushes to be pruned.
			V	iew prior to bend
Banking to be cut back	Trees to Prune			
<u>۱</u>	/iew on bend			View after bend
	Aria	I View of La	Pratian	
	Aeria ATION UNDERTAKEN?		ES TYPE	Swept nath analysis
RELATED DOCUME		Y		Swept path analysis 408561-230A1.1
			2	TUUJUI-2JUAT.I

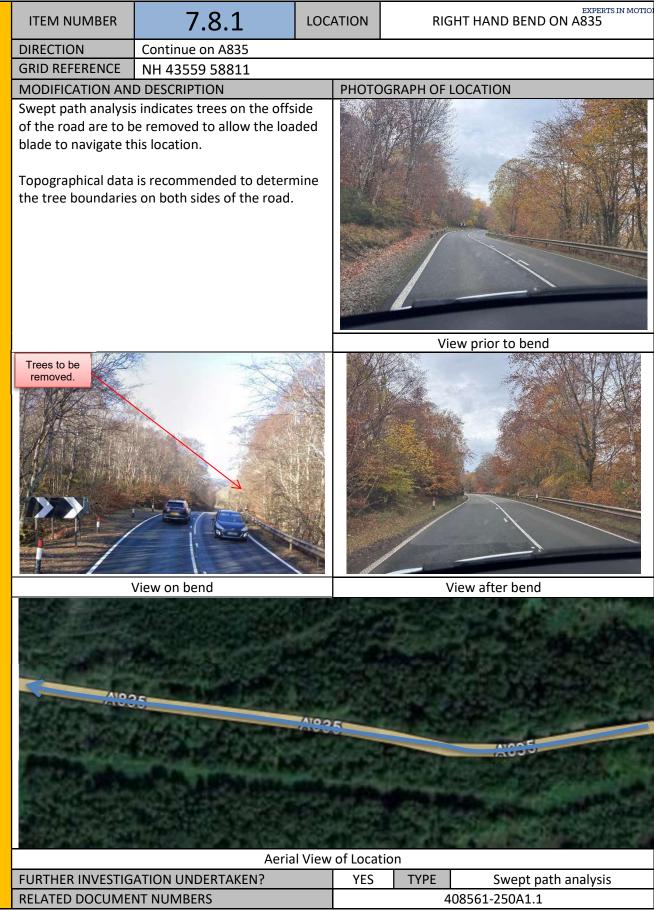


ITEM NUMBER	7.7.3	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 43759 58834			
MODIFICATION AN		РНОТО	OGRAPH OF LOCATION	<i>w</i>
vegetation are to b	s indicates that Trees and e removed on the nearside ne loaded blade to oversail	The second s	the state	and the second
	is recommended to detern s on both sides of the road.			
			View prior to bend	
	Trees tremov			
,	View on bend		View after bend	
				のため
	Aeria	I View of Locat	tion	
FURTHER INVESTIG	ATION UNDERTAKEN?	YES	TYPE Swept path analysis	
RELATED DOCUME			408561-240A1.1	





## <u>Collett</u>





ITEM NUMBER	7.8.2	LOCATION	LEFT HAND BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 42598 58996		
MODIFICATION AN			RAPH OF LOCATION
	indicates that the loaded le this section of route utilis		
			View prior to bend
	/iew on bend		View after bend
	/iew on bend		View after bend
		I View of Location	ATOSO
- And			Active



ITEM NUMBER	7.8.3	LOCATIO		GHT HAND BEND ON A835
DIRECTION	Continue on A835			
GRID REFERENCE	NH 42262 58952			
MODIFICATION AND			IOTOGRAPH OF	LOCATION
	indicates that the road sig bend is to be removed.	n on		
to allow the loaded	e of the bend are to be rem blade to oversail this locat	1000		
Trees on the nearsion pruned.	de of the bend are to be			
			Vi	iew prior to bend
	Road sig	gn to ved.		
\	/iew on bend			View after bend
	1000		A102	5
	Aeria	al View of	Location	
FURTHER INVESTIG	ATION UNDERTAKEN?		YES TYPE	Swept path analysis
RELATED DOCUMEN	NT NUMBERS		4	408561-270A1.1

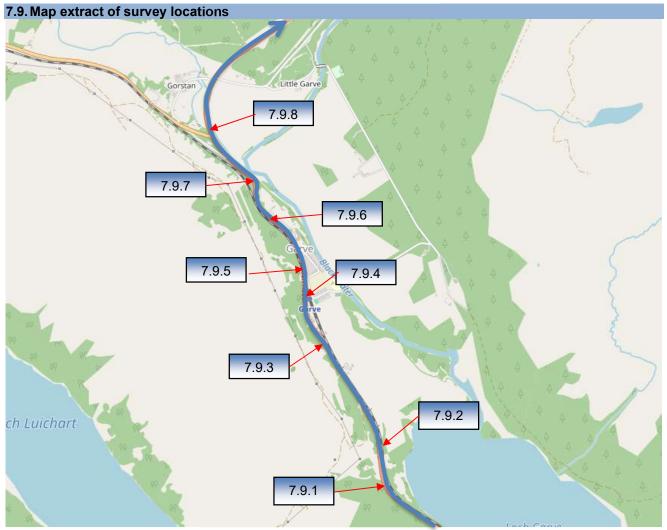


			EXPERTS IN MO	JIION
ITEM NUMBER	7.8.4	LOCATION	LEFT HAND BEND ON A835	
DIRECTION	Continue on A835			
GRID REFERENCE	NH 42051 59042			
MODIFICATION AN	D DESCRIPTION	PHOT	OGRAPH OF LOCATION	
Swept path analysis nearside of the ber projection of the bl	indicates that banking on a distributed to alog address that banking on a distributed to alog address to oversail this location de of the bend are to be	the the	OGRAPH OF LOCATION	
	Trees	to bo	View prior to bend	
	Prun Prun Each Annie Bankir be cut	ed.		
	View on bend		View after bend	
4000	Aeria	A 000		
FURTHER INVESTIG	ATION UNDERTAKEN?	YES		
RELATED DOCUME		123	408561-280A1.1	



			EXPERTS IN MOTION
ITEM NUMBER	7.8.5	LOCATION	LEFT HAND BEND ON A835
DIRECTION	Continue on A835		
GRID REFERENCE	NH 41250 59069		
MODIFICATION ANI		LTT NO.	TOGRAPH OF LOCATION
	s indicates that the loaded b e this section of route utilisi		
			View prior to bend
	/iew on bend		View after bend
4000		l View of Loo	ation
FURTHER INVESTIG	ATION UNDERTAKEN?	YES	
RELATED DOCUME			408561-290A1.1







			_	EXPERTS IN MOTION
ITEM NUMBER	7.9.1	LOCATIO	I RIO	GHT HAND BEND ON A835
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39950 60051			
MODIFICATION AND	DESCRIPTION	PHC	TOGRAPH OF	LOCATION
be pruned on the of loaded blade to over Boundary fence is to loaded blade to over	be removed to allow the			
	ee boundaries on both side	to the second		
Trees to be		ALCONT A	V	iew prior to bend
Pruned.				
V	iew on bend			View after bend
	Acria	I View of Lo	cation	
FURTHER INVESTIGA	TION UNDERTAKEN?			Swept path analysis
RELATED DOCUMEN		Ť		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		AT 100 - 10 100	OGRAPH OF LC	OCATION
	indicates that the loaded let this section of route utilis			
			View	v prior to bend
\	/iew on bend		Vie	ew after bend
		I View of Loo	ation	
FURTHER INVESTIG	ATION UNDERTAKEN?	YES		Swept path analysis
RELATED DOCUMEN				3561-310A1.1



ITEM NUMBER	7.9.3	LOC	ATION	LE	FT HAND BEND ON A835	
DIRECTION	Continue on A835	ontinue on A835				
GRID REFERENCE	NH 39567 61047					
MODIFICATION AN	D DESCRIPTION		РНОТО	GRAPH OF I	LOCATION	
	s indicates that the loaded l e this section of route utilis					
				Vi	ew prior to bend	
			C			
,	View on bend			N	/iew after bend	
	Aeria	al View	of Locat	ion	Contraction of the second seco	
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis	
RELATED DOCUME					08561-320A1.1	
				-		



ITEM NUMBER	7.9.4	LOCA	ATION	RIGHT HAND BEND ON A835
DIRECTION	Continue on A835			
GRID REFERENCE	NH 39473 61405			
MODIFICATION ANI	D DESCRIPTION		PHOTOG	GRAPH OF LOCATION
	indicates that the loaded l		9	
				View prior to bend
\	/iew on bend			View after bend
	Ga	1.00 <sup>-1</sup>	Nev Burial	WG arve Ground
	ATION UNDERTAKEN?		YES	TYPE Swept path analysis
			TES	
RELATED DOCUMEN	NT INOIVIBERS			408561-330A1.1



						EXPERTS IN MOTION
	ITEM NUMBER	7.9.5	LOC	ATION	LEF	T HAND BEND ON A835
Ļ	DIRECTION	Continue on A835				
	GRID REFERENCE	NH 39469 61514				
L	MODIFICATION ANI			PHOTOG	GRAPH OF L	OCATION
		s indicates that the loaded h e this section of route utilisi				
					Vio	w prior to bend
	<u> </u>	/iew on bend			V	iew after bend
-		Garve to CROS		of Locatio	Rosemou Bothy Cotta	nt per Strathgarve Primary School
	FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
	RELATED DOCUMEN					)8561-340A1.1
				1		



			EXPERTS IN MOTION			
ITEM NUMBER	7.9.6	LOCATION	LEFT HAND BEND ON A835			
DIRECTION	Continue on A835					
GRID REFERENCE	NH 39159 62011					
MODIFICATION AND			TOGRAPH OF LOCATION			
Swept path analysis the nearside of the – Topographical da this.	indicates that the rock fac bend is required to be cut <b>ta is recommended to co</b> r is required on the nearsid	ce on back ifirm				
			View prior to bend			
Rock edge to be cut back.						
121 X83 915	/iew on bend	8 . IN	View after bend			
		200	Black Nater			
	Aari	al View of Lo				
	Aeria	al View of Lo	cation			



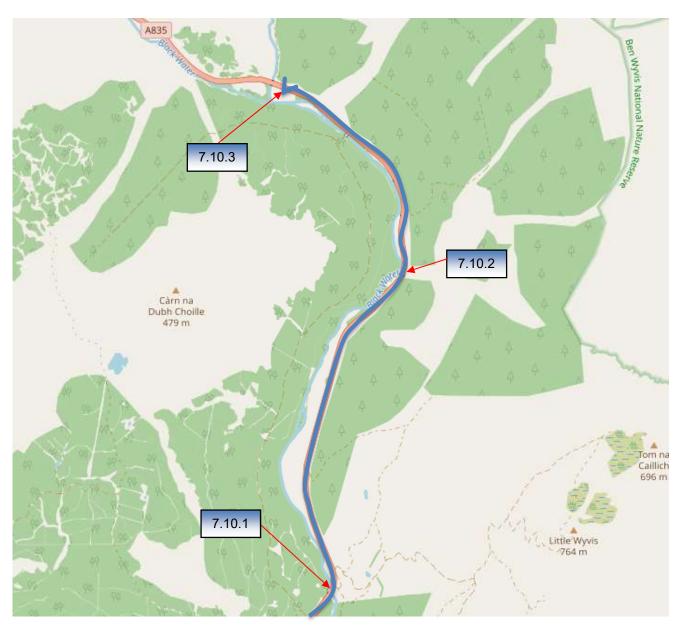
DIRECTION       Continue on A835         GRID REFERENCE       NH 39152 62115         MODIFICATION AND DESCRIPTION       PHOTOGRAPH OF LOCATION         Swept path analysis indicates that the rear projection oversails the land on the offside of the bend - third party ownership to be determined.       PHOTOGRAPH OF LOCATION         The trees along the offside section of the 5 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.       View prior to bend         Image: The tree of the modifications.       Bark to be the moved signs to be the oremoved.         View on bend       View on bend         View on bend       View after bend         View on bend       View of Location         Aerial View of Location       Aerial View of Location	ITEM NUMBER	7.9.7	LOCA	TION	LEFT H	AND BEND ON A835
GRID REFERENCE     NH 39152 62115       MODIFICATION AND DESCRIPTION     PHOTOGRAPH OF LOCATION       Swetp path analysis indicates that the rear projection oversalis the land on the offside of the bend - third party ownership to be determined.     PHOTOGRAPH OF LOCATION       The location of the banking on the offside is required to be determined.     The trees along the offside section of the 5 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.     View prior to bend       Image: the projection of the section of the section of the section function due to the nature of the modifications.     Bank to be the prior to bend       Image: the projection of the section of the section function due to the nature of the modifications.     View prior to bend       Image: the projection of the section of the section function due to the nature of the modifications.     Image: the projection of the section function due to the nature of the modifications.       Image: the projection of the section of the modifications.     Image: the projection of the section of the sec	DIRECTION					
MODIFICATION AND DESCRIPTION         PHOTOGRAPH OF LOCATION           Swept path analysis indicates that the rear projection oversalis 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 location of the banking on the offside service 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.         View prior to bend           Topographical data is recommended at this location due to the nature of the modifications.         View prior to bend           View on bend         Trees to be removed           View on bend         Trees to be removed           View on bend         View after bend           View on bend         View after bend           View after bend         View after bend           View after bend         View after bend						
Swept path analysis indicates that 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 as indicated.         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.       View prior to bend         Image: the required on the offside of the right hand bend.       Bank to be for the right hand bend.         Topographical data is recommended at this location due to the nature of the modifications.       Ford signs to be removed.         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View prior to bend         Image: the right hand bend.       View of the right hand bend.         Image: the right hand bend.       View of the right hand bend.         Image: the right hand bend.       View prior to bend				PHOTO	GRAPH OF LOCA	ATION
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. Bank to be Topographical data is recommended at this located. Bank to be Topographical data is recommended at this located. Topographical data is recommended at this located.	projection oversails bend - third party o The location of the	the land on the offside of t wnership to be determined banking on the offside is	the			Trees to be
the right hand bend. Topographical data is recommended at this location due to the nature of the modifications.	-		nd		Page 1	
Iocation due to the nature of the modifications.		-	of			
Image: Section of the section of th			s.		View p	prior to bend
FURTHER INVESTIGATION UNDERTAKEN?         YES         TYPE         Swept path analysis		remov			red.	be removed.
FURTHER INVESTIGATION UNDERTAKEN?         YES         TYPE         Swept path analysis				AN		
		Aeria	al View c	of Locati	on	
	FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMENT NUMBERS 408561-360A1.1	RELATED DOCUMEN	NT NUMBERS			4085	



ITEM NUMBER     7.9.8     LOCATION     LONG RIGHT HAND BEND ON A83       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.     PHOTOGRAPH OF LOCATION       Weich will navigate this section of route utilising manual steering.     PHOTOGRAPH OF LOCATION       Weich will navigate this section of route utilising manual steering.     View prior to bend	LOCATION	PHOTOGRAPH OF L	tinue on A835 38885 62441	GRID REFERENCE				
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.       PHOTOGRAPH OF LOCATION         Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.       PHOTOGRAPH OF LOCATION         Weither will navigate this section of route utilising manual steering.       View prior to bend         View prior to bend       View prior to bend	LOCATION	PHOTOGRAPH OF L	38885 62441	GRID REFERENCE				
MODIFICATION AND DESCRIPTION       PHOTOGRAPH OF LOCATION         Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.       Image: Constraint of the section of route utilising the section of rout	LOCATION	PHOTOGRAPH OF L						
Swept path analysis indicates that the loaded blade vehicle will navigate this section of route utilising manual steering.       Image: Comparison of comparis		a sied	ON AND DESCRIPTION PHOTOGRAPH OF LOCATION					
				vehicle will navigat				
	'iew prior to bend	Vie						
View on bend View after bend	View after bend	V	on bend					
Arial View of Location	O C C C C C C C C C C C C C C C C C C C							
FURTHER INVESTIGATION UNDERTAKEN?         YES         TYPE         Swept path analysis		of location	Δerial					
RELATED DOCUMENT NUMBERS408561-370A1.1	Swent nath analysis							



# 7.10. Map extract of survey locations



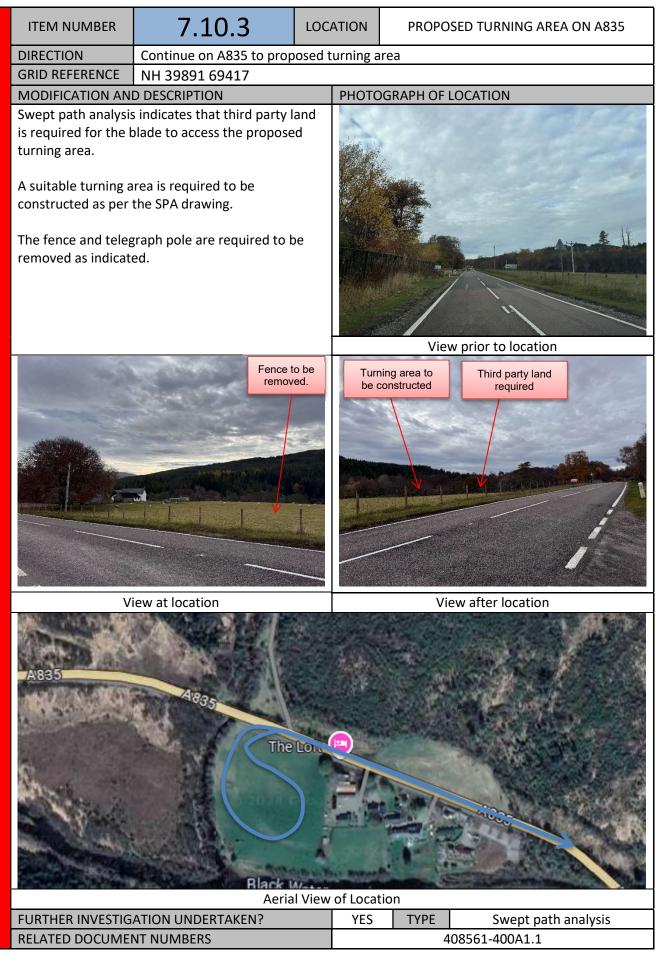


ITEM NUMBER	7.10.1	LOCATION	LEFT HAND BEND ON A835			
DIRECTION	Continue on A835					
GRID REFERENCE						
MODIFICATION ANI			TOGRAPH OF LOCATION			
	indicates that the loaded l					
			View prior to bend			
١	/iew on bend		View after bend			
		B View of Loo	Little Wyvis Fishing         CkWater Falls         Little Table			
FURTHER INVESTIG	ATION UNDERTAKEN?	YE				
RELATED DOCUMEN			408561-380A1.1			

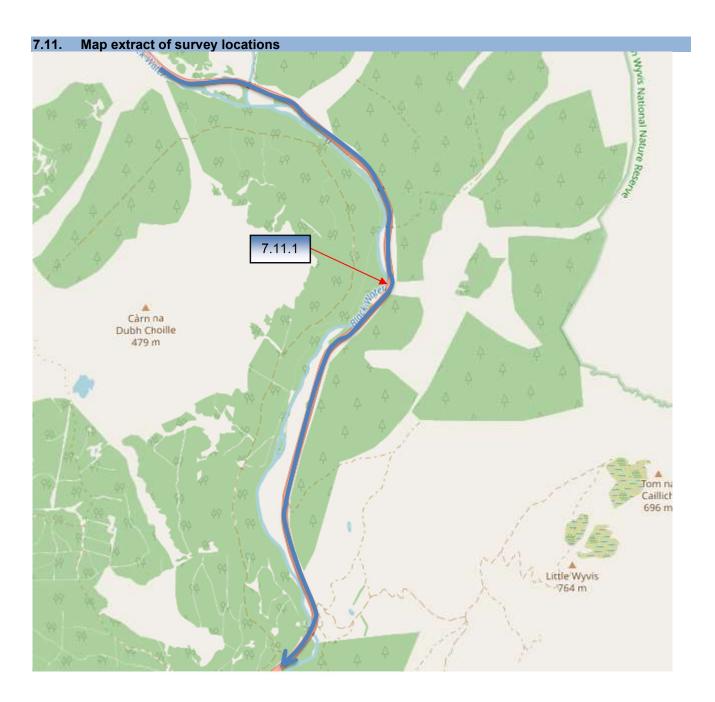


					EXPERTS IN MOTION	
ITEM NUMBER	7.10.2	LOC	ATION	LEFT H	HAND BEND ON A835	
DIRECTION	Continue on A835					
GRID REFERENCE NH 41199 67387						
MODIFICATION ANI			РНОТОС	RAPH OF LOC	ATION	
	indicates that the trees of d are to be removed to all oversail.					
				View	prior to bend	
Trees to be pruned.						
N	/iew on bend			View	v after bend	
		al View	of Locatio	n and the second se		
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	ТҮРЕ	Swept path analysis	
RELATED DOCUMEN			125		561-390A1.1	











ITEM NUMBER 7.11.	1 LOC	ATION	RIGHT HAND BEND ON A835
DIRECTION Continue on A83	35		•
GRID REFERENCE NH 41199 6738	87		
MODIFICATION AND DESCRIPTION		РНОТО	OGRAPH OF LOCATION
Swept path analysis indicates that the vehicle will navigate this location util steering. The tree pruning required for the nor cater for the southern route.	ising manual		
			View prior to bend
View on bend			View after bend
	Black Water		
	C Birgers	JI ( IE	
	Aerial View		
FURTHER INVESTIGATION UNDERTAK	(EN?	YES	TYPE         Swept path analysis
RELATED DOCUMENT NUMBERS			408561-410A1.1



#### 8. Route B Assessment

#### 8.1. Route B

3.5							
<ul> <li>Continue on Academy Road to Junction with A9</li> <li>At junction turn left onto A9</li> </ul>							

# 8.2. Map Overview





### 8.3. Map extract of survey locations





ITEM NUMBER	8.3.1	LOCATION	PORT EXIT / B817 JUNCTION
		200,000	
DIRECTION GRID REFERENCE	Eit port onto B817 NH 70216 68637		
MODIFICATION AN		рното	OGRAPH OF LOCATION
Swept path analysis required to be upgr vehicles to navigate Road widening is re junction.	s indicates that the dock exi raded to allow the loaded e out of the docks successfu equired on the offside of the e dock and on either side of	t is Ily.	ORAPH OF LOCATION
			View prior to exit
	Exit to be upgraded	Ro wide requ	
	View at exit		View after exit
	BB17 Quay West	al View of Locat	Time
	ATION UNDERTAKEN?	YES	TYPE Swept path analysis
RELATED DOCUME			408561-500A1.1



	ITEM NUMBER	8.3.2	LOC	ATION	LEF	T HAND BEND ON B817
	DIRECTION	Continue on B817				
ļ	GRID REFERENCE	NH 70398 68469				
	MODIFICATION AND	DESCRIPTION		PHOTO	GRAPH OF L	OCATION
		indicates that the loaded b this section of route utilisin				
	Γ				Vie	ew prior to bend
		View on bend	: Perkins		V	iew after bend
			View	of Locatio	on	Global P us Energy O
	FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
	RELATED DOCUMEN	IT NUMBERS			4(	08561-510A1.1



ITEM NUMBER	8.3.3	LOC	ATION	LEI	FT HAND BEND ON B817
DIRECTION	Continue on B817				
GRID REFERENCE	NH 70800 68347				
MODIFICATION AND			РНОТОС	GRAPH OF I	LOCATION
	indicates that the traffic lig road are to be removed to versail.				
removed.	e nearside are required to				E
The plant pots on the relocated.	ne nearside are required to	De			
		10 Jac		Vie	ew prior to bend
4 Traffic lights to be removed.			Plant p to b reloca	e ted	8 Bollards to be removed.
	Shore R <sup>3</sup> Connarty Firth Port Authonity SR O Evans Offshore	ugh Miller Invergad	State	gh Miller St	Tiew after bend
	ATION UNDERTAKEN?	VIEW	YES	TYPE	Swept path analysis
RELATED DOCUMEN					08561-520A1.1
RELATED DOCUMEN			I	4	00JUI-JZUAI.I



ITEM NUMBER	8.3.4	LOC	ATION	RIG	HT HAND BEND ON B817
DIRECTION	Continue on B817				
GRID REFERENCE	NH 70931 68498				
MODIFICATION AND	DESCRIPTION		PHOTO	GRAPH OF L	OCATION
	indicates that the loaded b this section of route utilisin				
			- //	Vie	w prior to bend
	/iew on bend			V	iew after bend
outram St		Li sune engl	nd Taxi To of Locatio		
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMEN			113		08561-530A1.1
			L	40	10201 220H1'I



	ITEM NUMBER	8.3.5	LOC	ATION	LEFT HAND BEND ON B817		
	DIRECTION Continue on B817						
_	GRID REFERENCE NH 71377 68608						
	MODIFICATION AND		OGRAPH OF LOCATION				
V		indicates that the loaded b this section of route utilisin					
					View prior to bend		
	President of the August of Myoles and	/iew on bend			View after bend		
	Joss St High (a) Exercise Store (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	recordor Muser recordor Muser recordor Muser recordor Muser recordor Muser recordor Muser		Sea Sea Of Locatio	Tuckers Ing         Tuckers Ing           Tuckers Ing         Tuckers Ing           Tuckers Ing         Tuckers Ing           Tuckers Ing         Tuckers Ing		
		ATION UNDERTAKEN?	VIEW	YES			
_	RELATED DOCUMEN			165	TYPE Swept path analysis 408561-540A1.1		
				L	400JUI-J4UAI.I		



ITEM NUMBER	8.3.6	LOC	ATION B817 / U		NCLASSIFIED ROAD JUNCTION	
DIRECTION	DIRECTION At junction turn left onto unclassified road					
GRID REFERENCE						
	AODIFICATION AND DESCRIPTION			PHOTOGRAPH OF LOCATION		
and traffic light on t	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.			Traffic light to be removed.		
				Vie	ew prior to bend	
Lamp post to be removed.	Formers heard				inversite	
	/iew on bend	-1		V	iew after bend	
îlevault O Tart	an Taxis Limited		iouse Care ( Port of Im	vergordon		
	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis	
			TES		08561-550A1.1	
	RELATED DOCUMENT NUMBERS 408561-550A1.1				30301-330AT.1	



ITEM NUMBER	8.3.7	LOC	ATION	LEFT	HAND BEND ON B817
DIRECTION Continue on unclassified road					
GRID REFERENCE					
MODIFICATION AND			HOTOGR	APH OF LOC	CATION
	indicates that the loaded le this section of route utilis			View	prior to bend
١	/iew on bend		INNER HUBHE VIEW	Vie	w after bend
		I View	of Locatio	n	
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE	Swept path analysis
RELATED DOCUMEN			5		561-560A1.1



ITEM NUMBER	8.3.8	LOC	ATION	UNCLASSIFEID ROAD / ACADEMY ROAD JUNCTION			
DIRECTION							
GRID REFERENCE NH 70723 69799							
MODIFICATION AND	D DESCRIPTION	HOTOGRAPH OF LOCATION					
	Swept path analysis indicates that third party land is required to stop the loaded blade from colliding with the electric poles.			Sign post to be removed			
hatching.	Road widening is required as indicated by the red hatching.						
Trees are to be remov	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 l	pe removed.						
The sign post on the r	nearside is required to be remo	oved.					
			View prior to bend				
	Trees Bushes be remo	s to	Roa wider requi	ning and levelled.			
Y	View on bend			View after bend			
	Apple           Apple	View	of Locati	<image/>			
FURTHER INVESTIG	ATION UNDERTAKEN?		YES	TYPE Swept path analysis			
RELATED DOCUMENT NUMBERS				408561-570A1.1			



				EXPERTS IN MOT	
ITEM NUMBER	8.3.9	LOC	ATION	ACADEMY ROAD / A9 JUNCTION	
DIRECTION	IRECTION At junction turn left onto A9				
GRID REFERENCE	NH 70074 70903				
MODIFICATION AND	D DESCRIPTION		НОТОС	OGRAPH OF LOCATION	
Swept path analysis party land is require	indicates that oversailing t ed.	hird			
	Trees are to be removed on the nearside of the road to allow the loaded blades projections to oversail.				
	fside and nearside of the ro- low the rear projection of t s location.			Sign post to be removed.	
			L	View prior to junction	
Third party land required.	Trees to be removed.				
V	iew at junction			View after junction	
	Hugh Kirkwood Fin Cafe Tomich Limited	Contraction of the second seco			
		View	of Locati		
	ATION UNDERTAKEN?		YES		
RELATED DOCUMENT NUMBERS				408561-580A1.1	

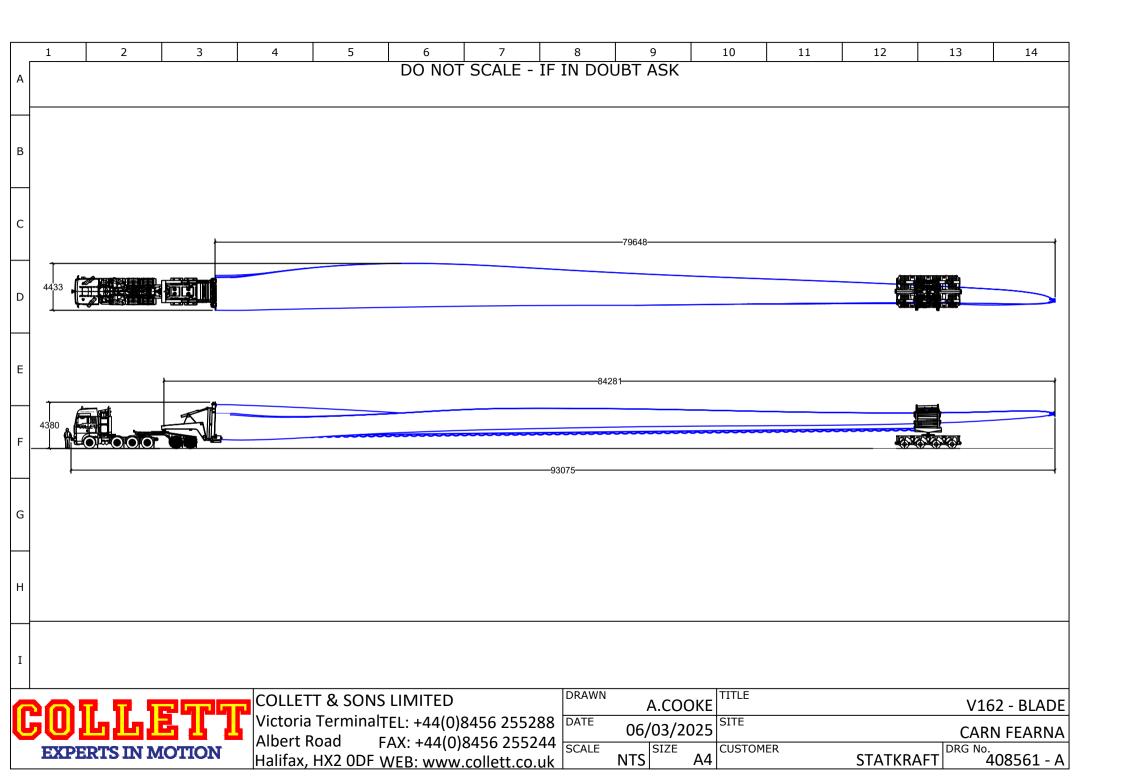


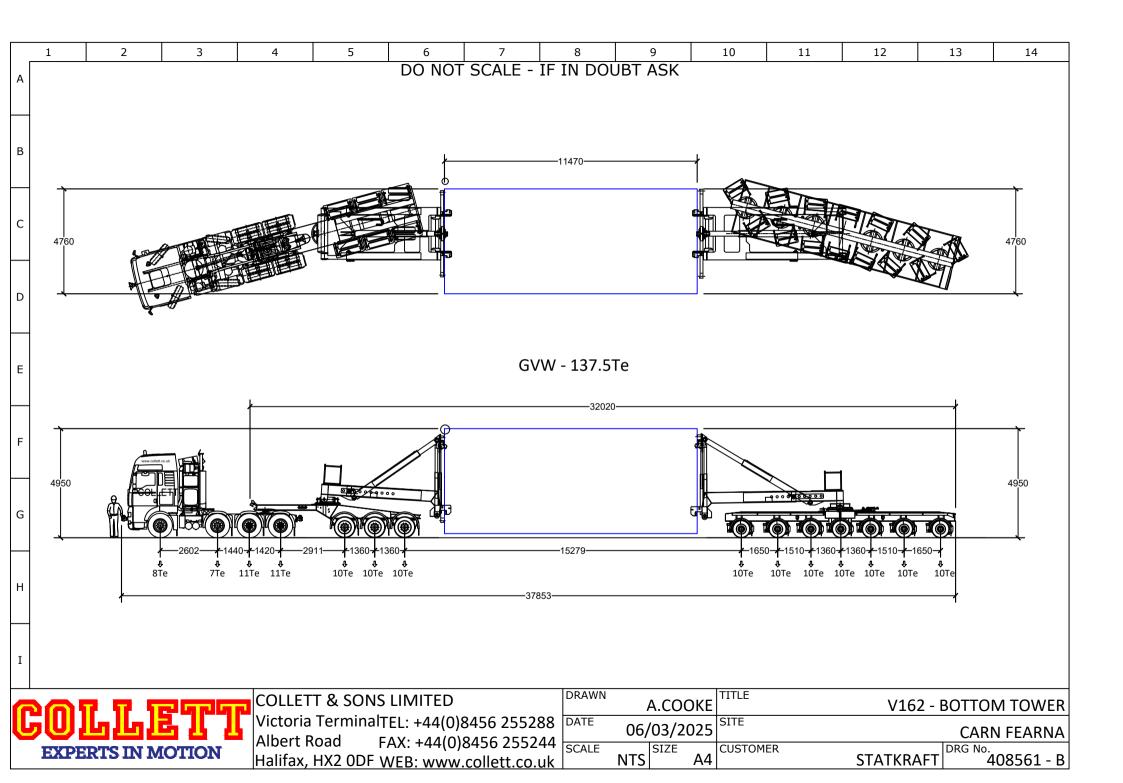
## 9. Important Notes

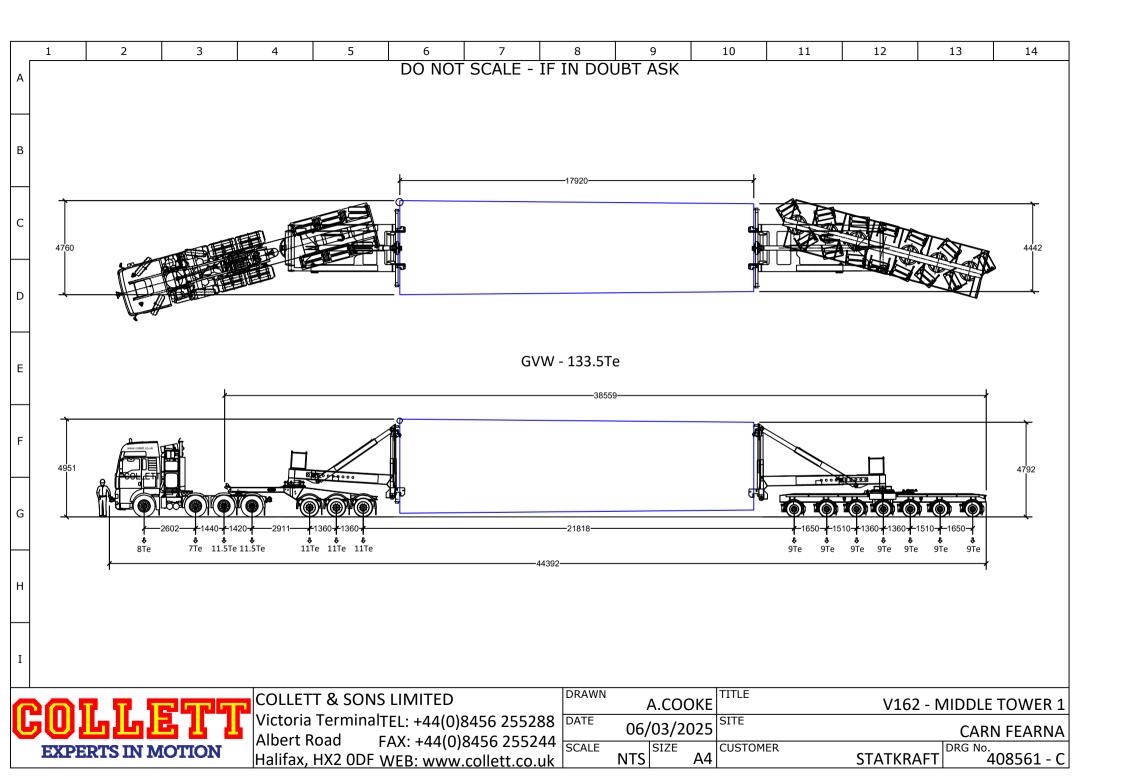
- **9.1.** The recommendations in this report are made from a purely transport orientated view, and do not consider any political issues in terms of land ownership, or any other precincts raised that may otherwise be restrictive.
- **9.2.** The information contained in this report is privileged and confidential 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 thee N149 Middle tower 2 and Top tower sections are loaded in the step frame configurations. This results in 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.

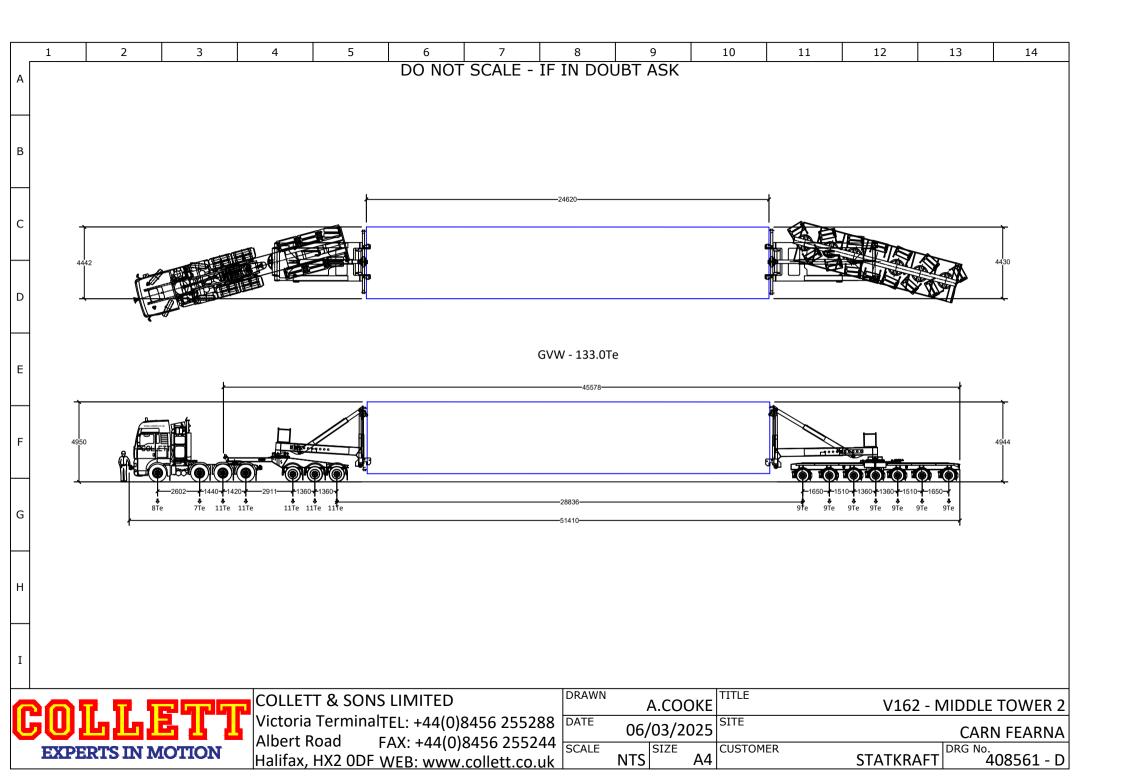


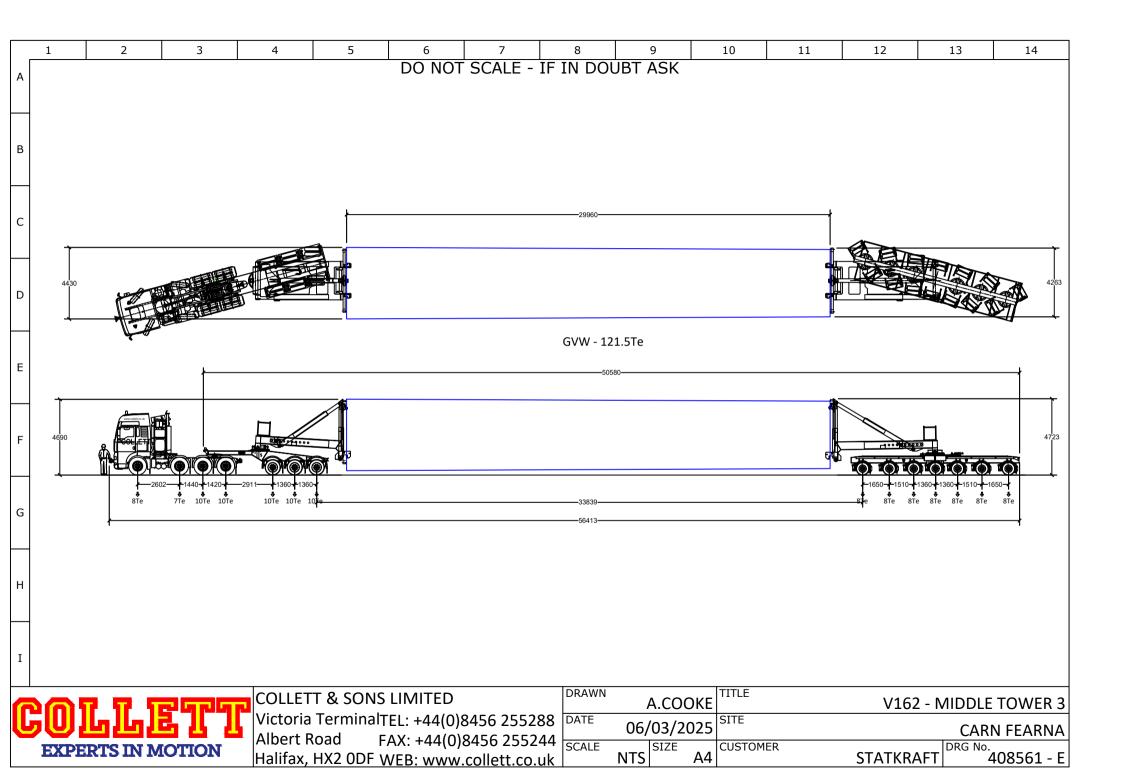
# APPENDIX 1 LOADED CONFIGURATION DRAWINGS

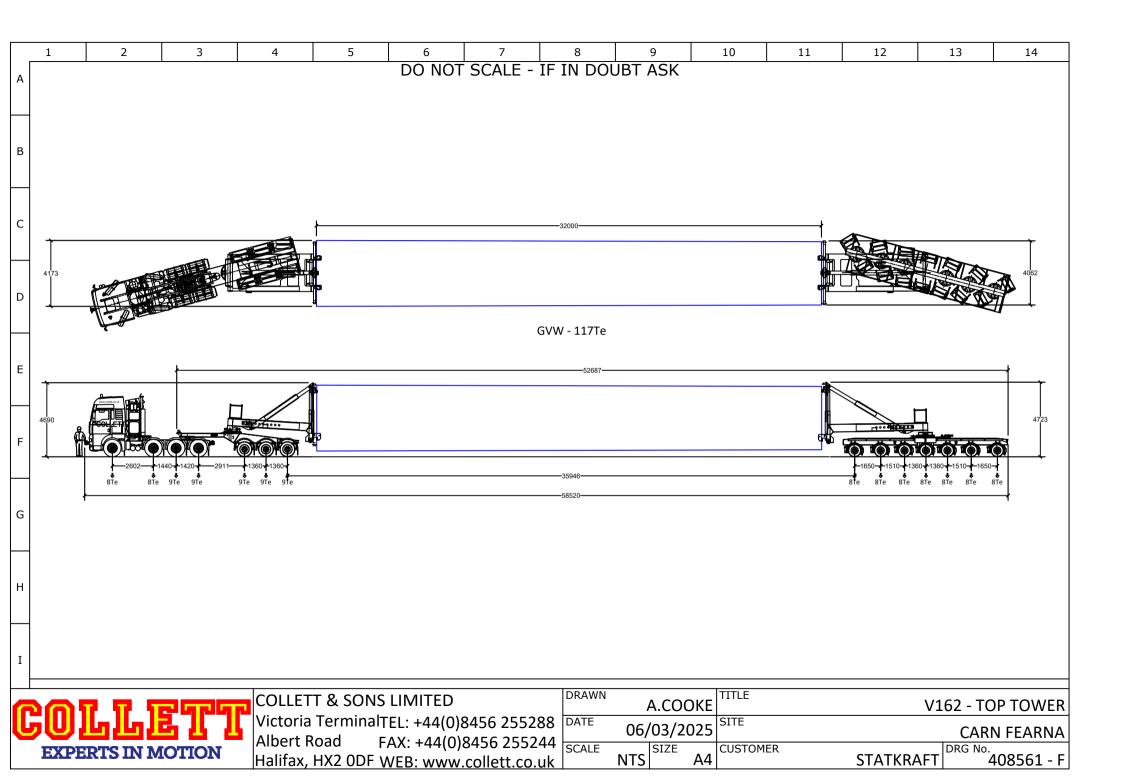


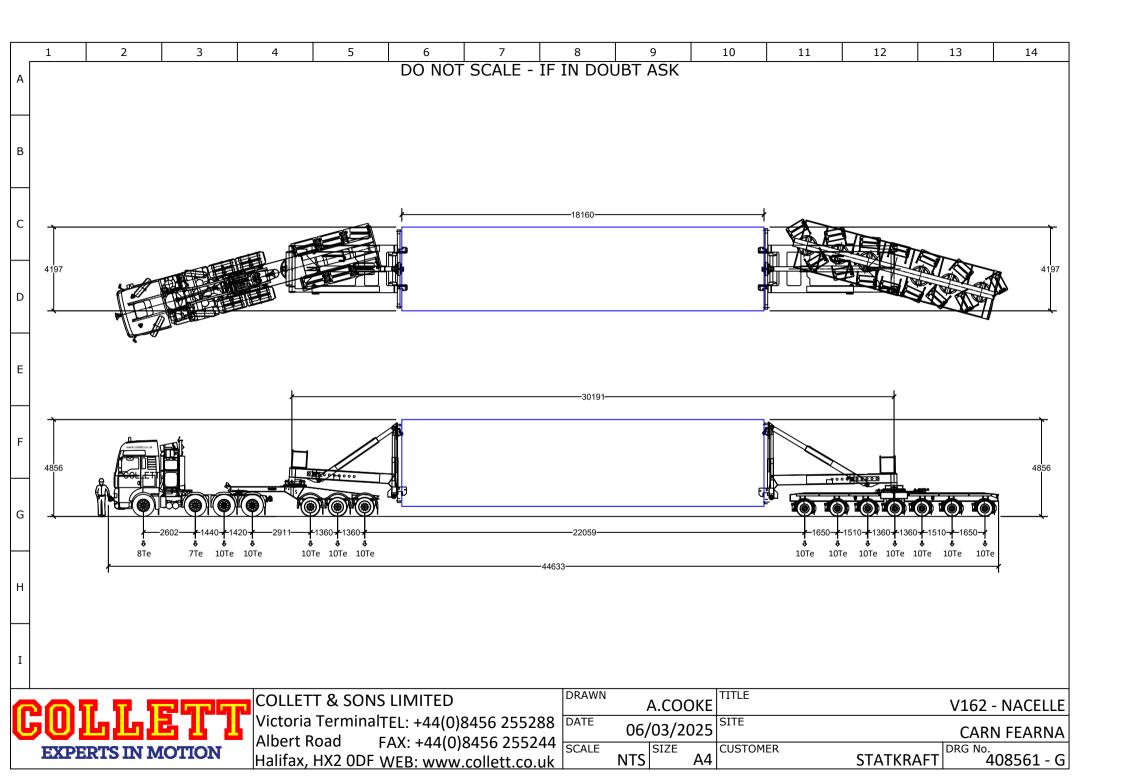


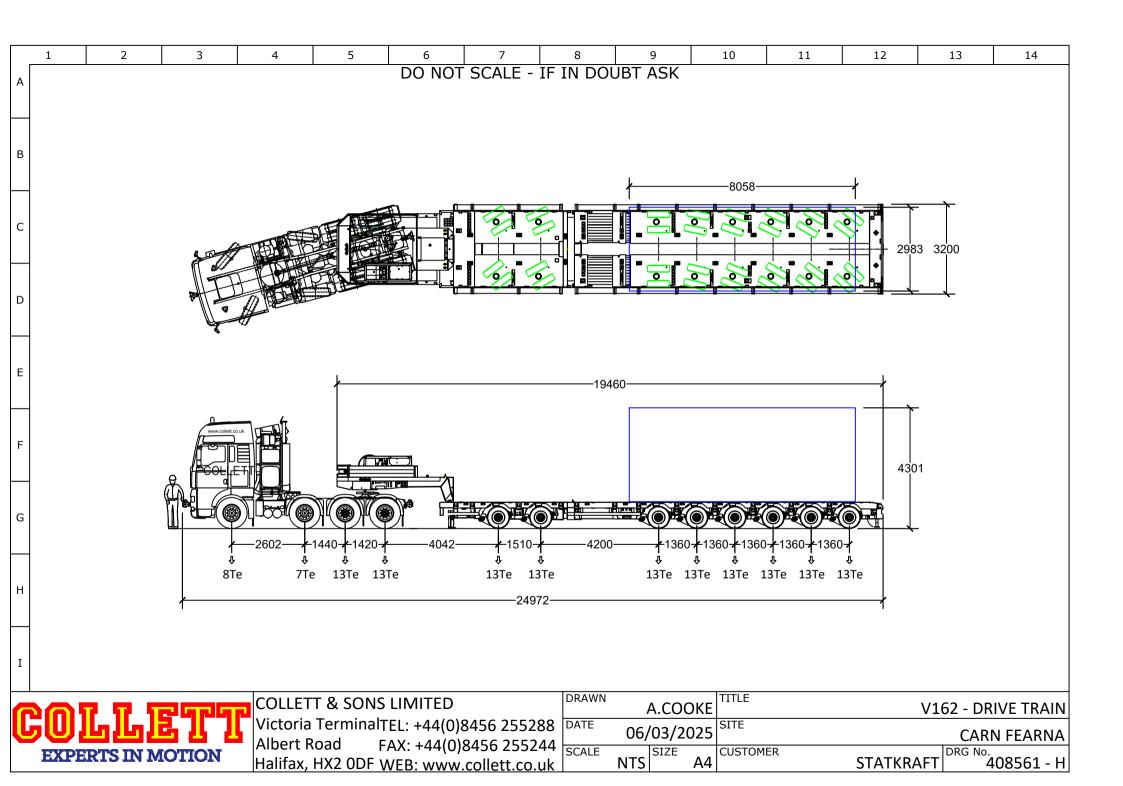


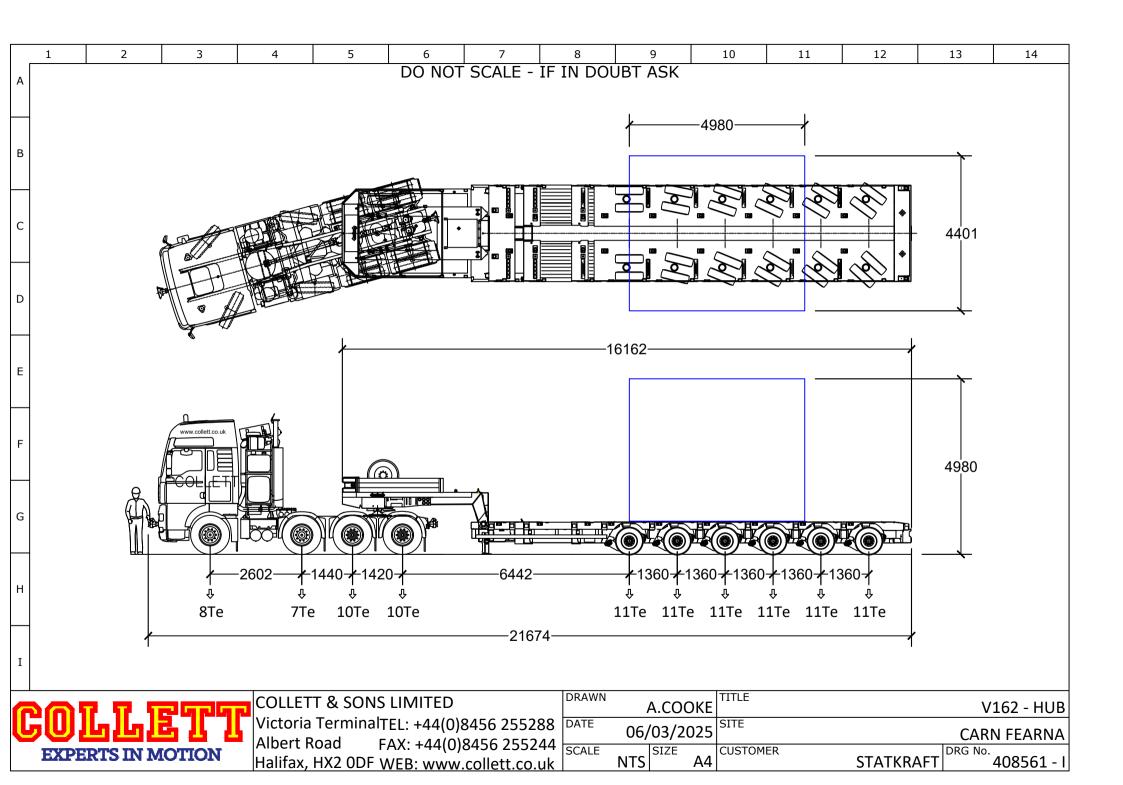






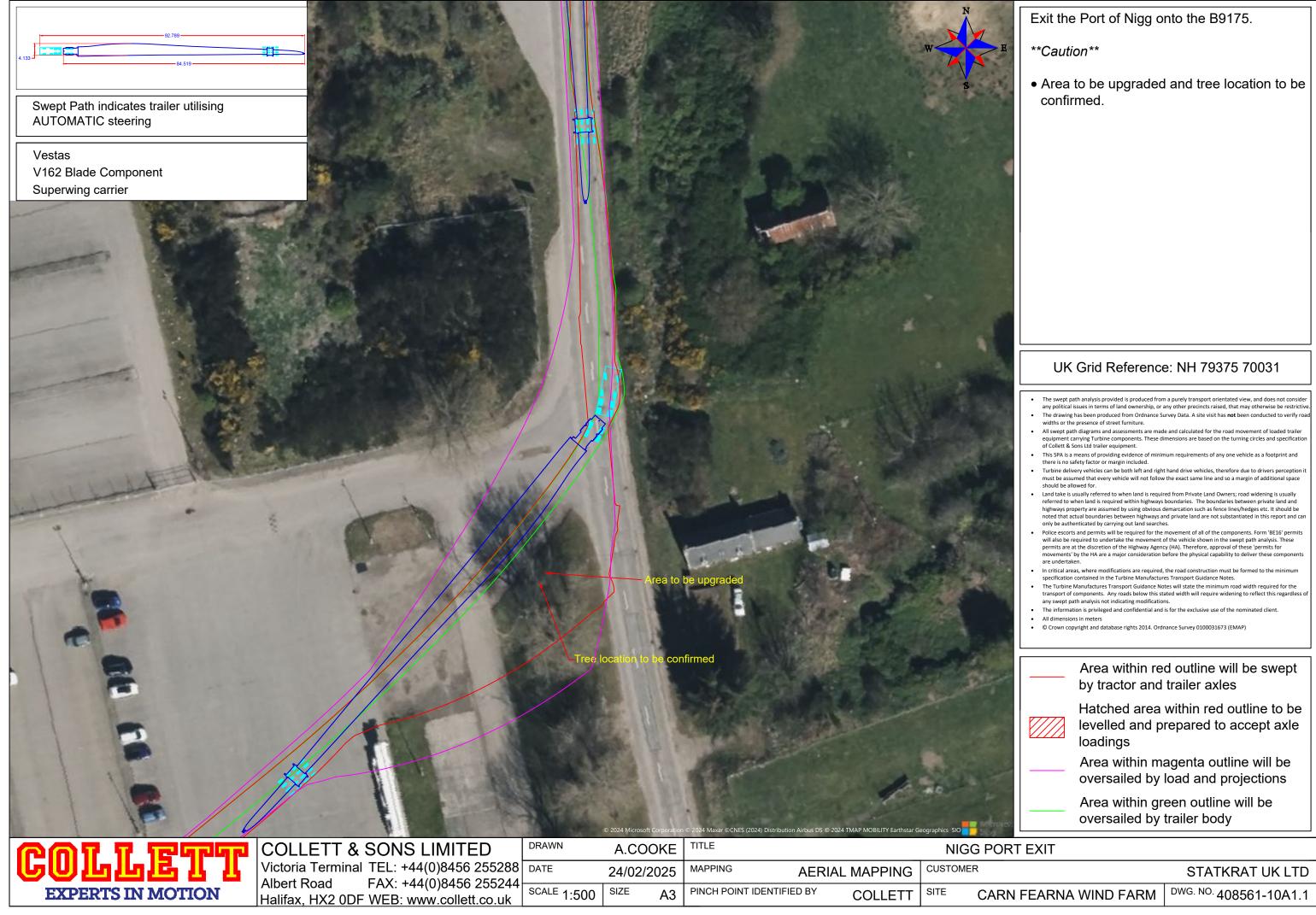


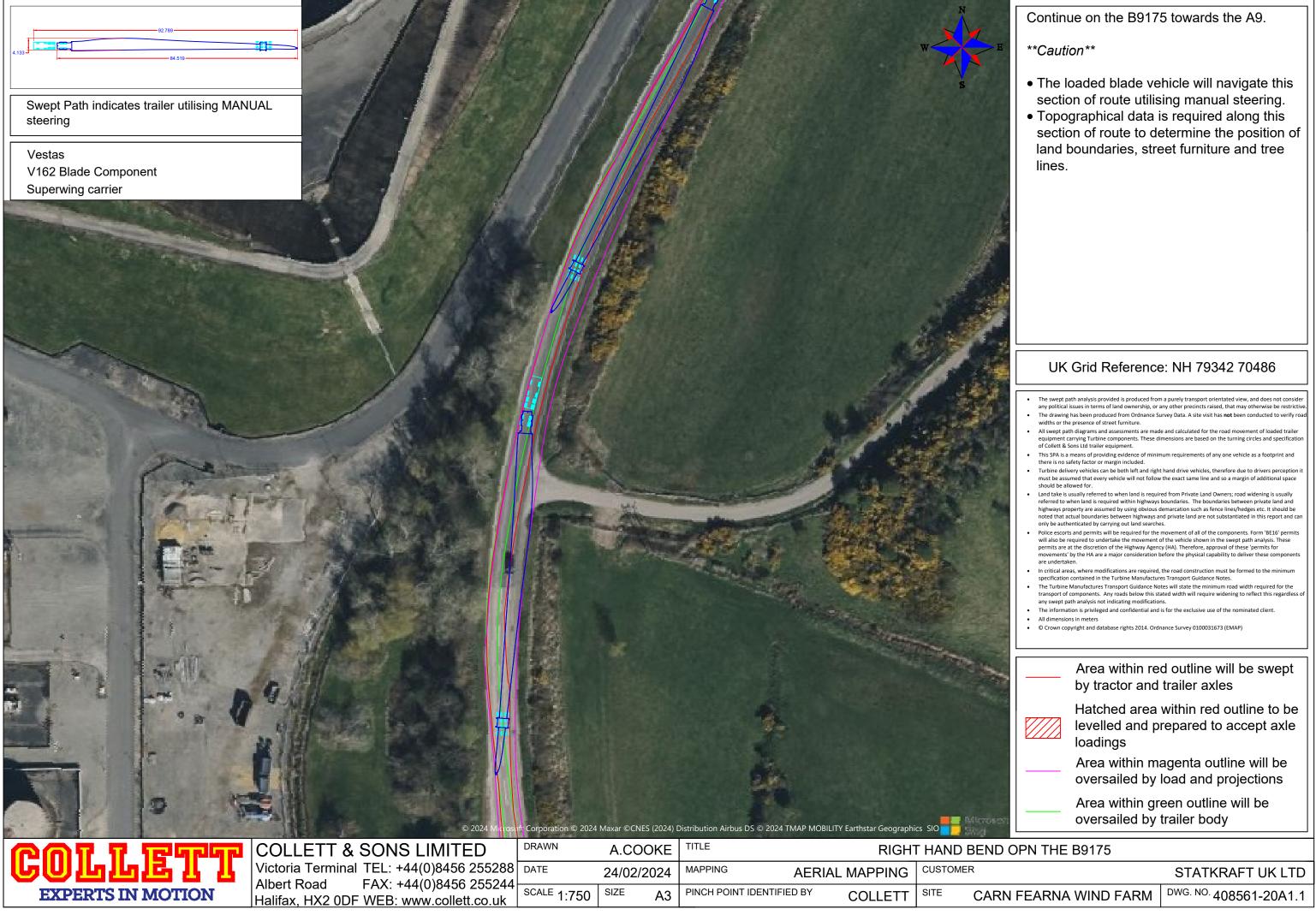


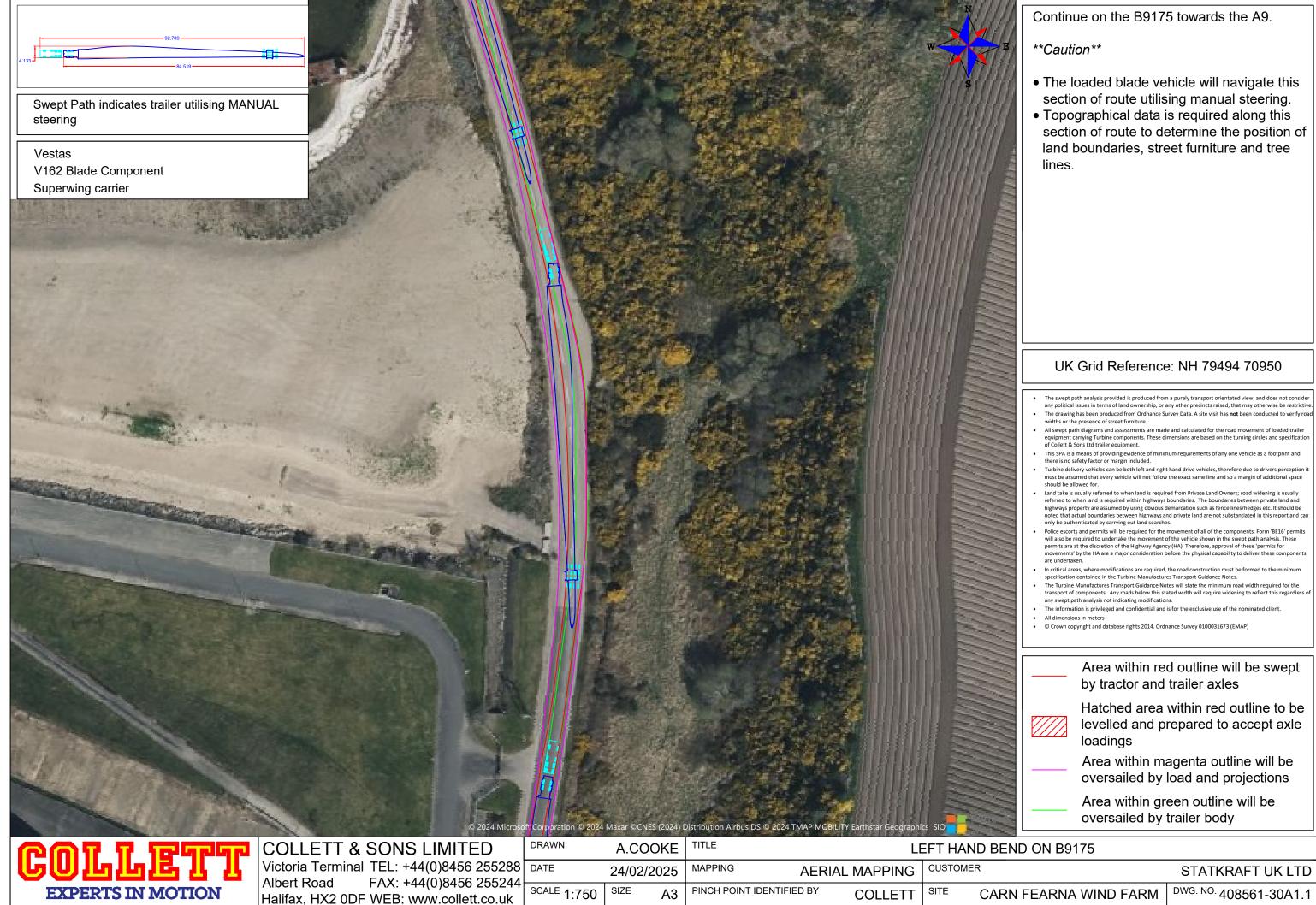


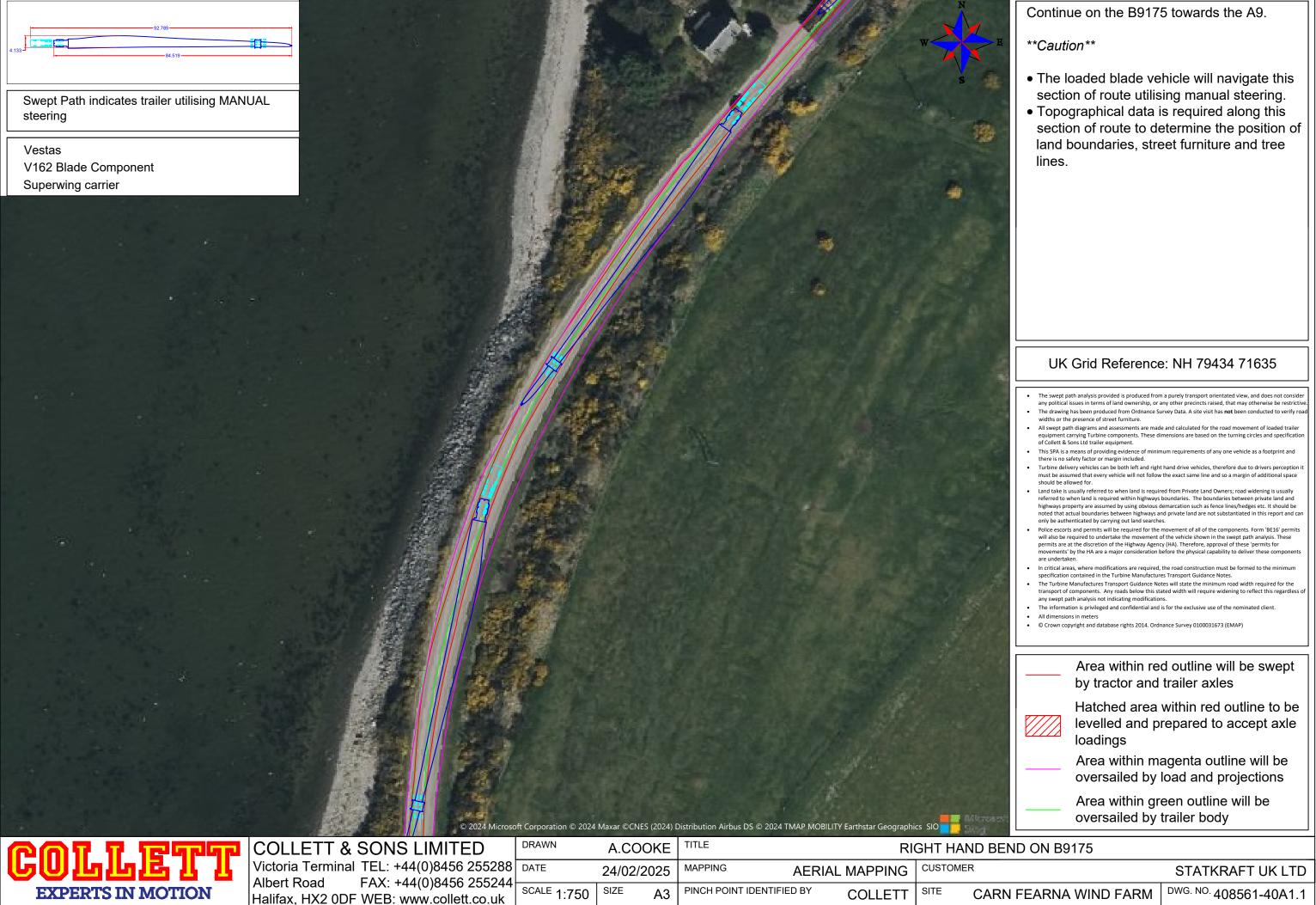


# APPENDIX 2 SWEPT PATH ANALYSIS DRAWINGS

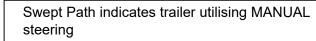












Vestas V162 Blade Component Superwing carrier



		and the second se		I @ 2024 Maxar @CIVES (2024) Distribution A		
292	COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	LE	FT HAND BEND
	Victoria Terminal TEL: +44(0)8456 255288		24/02/2025	MAPPING	AERIAL MAPPING	CUSTOMER
	Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	SCALE :1000	<sup>SIZE</sup> A3	PINCH POINT IDENTIFIED	COLLETT	SITE CARN

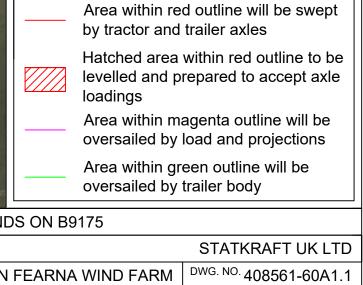
Continue on the B9175 towards the A9.

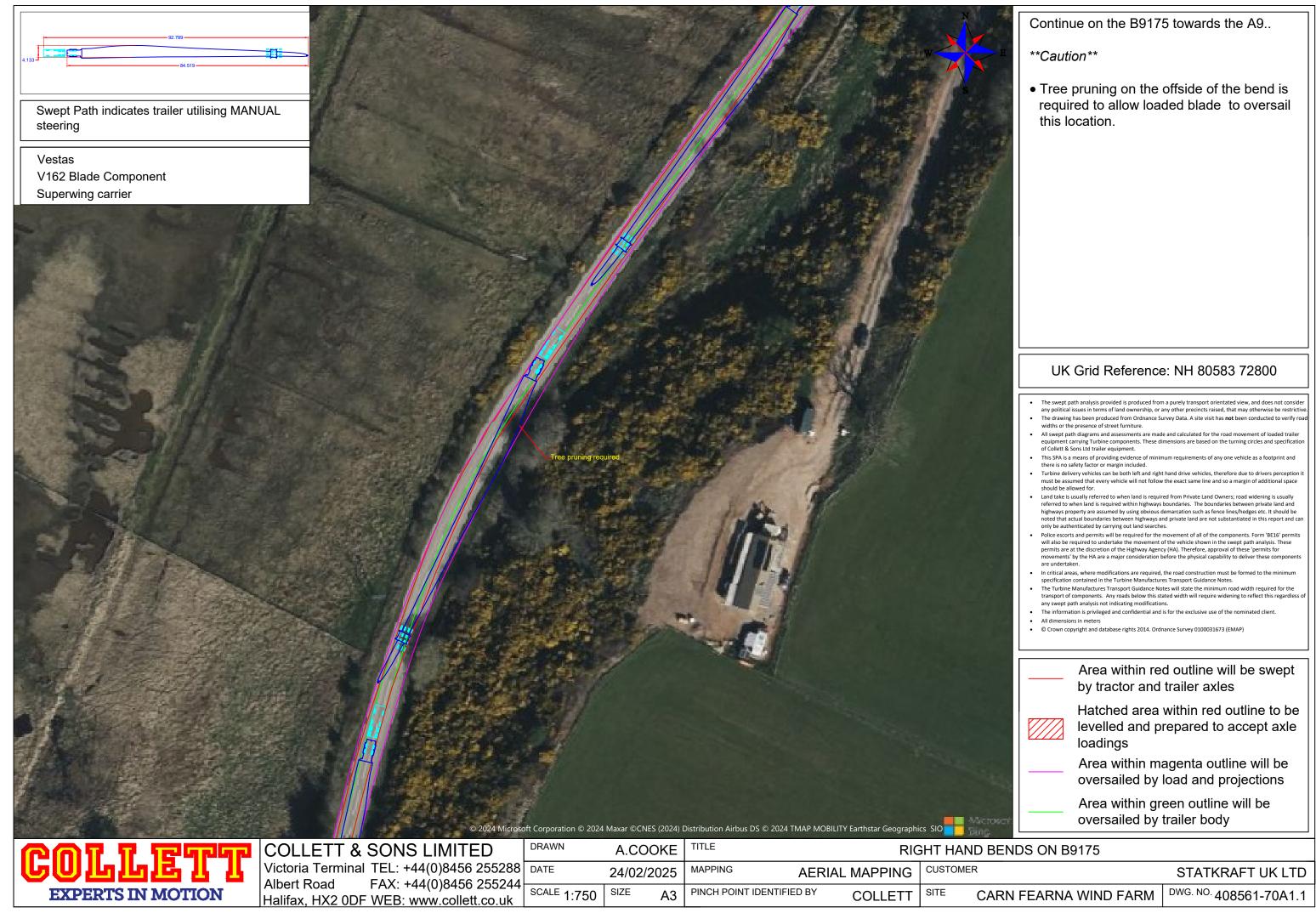
## \*\*Caution\*\*

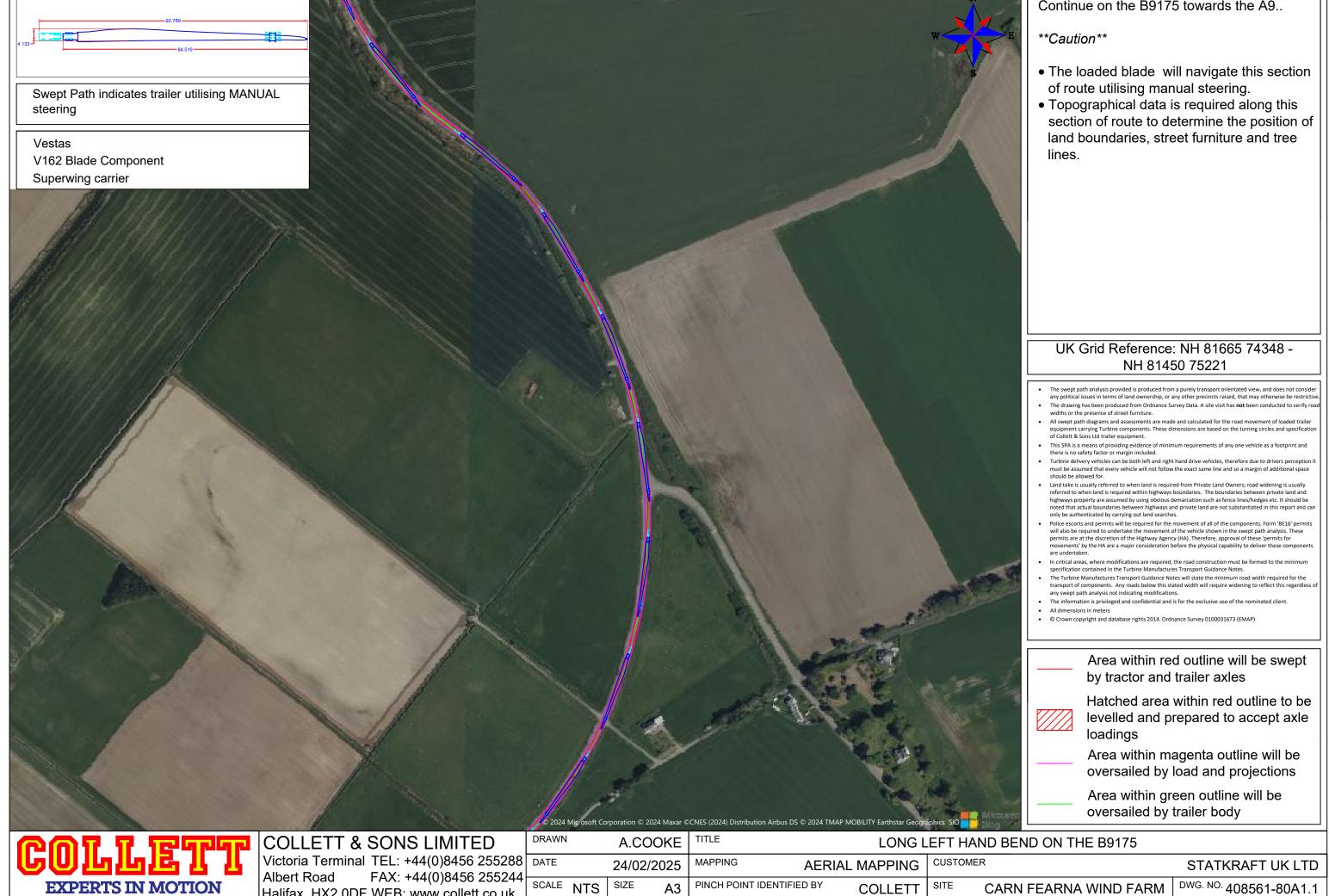
- Tree pruning is required along this bend to allow the lowered blade to navigate this loaction.
- The lowered blade vehicle will navigate this section of route utilising manual steering.
- Topographical data is required along this section of route to determine the position of land boundaries, street 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
- Turbine delivery vehicles can be both left and right hand drive vehicles, therefore due to drivers perception il
  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 car
  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 on any upwer at the polytic pair identifier and different pair and for the state of the state o
- 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)







SIZE

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

A3

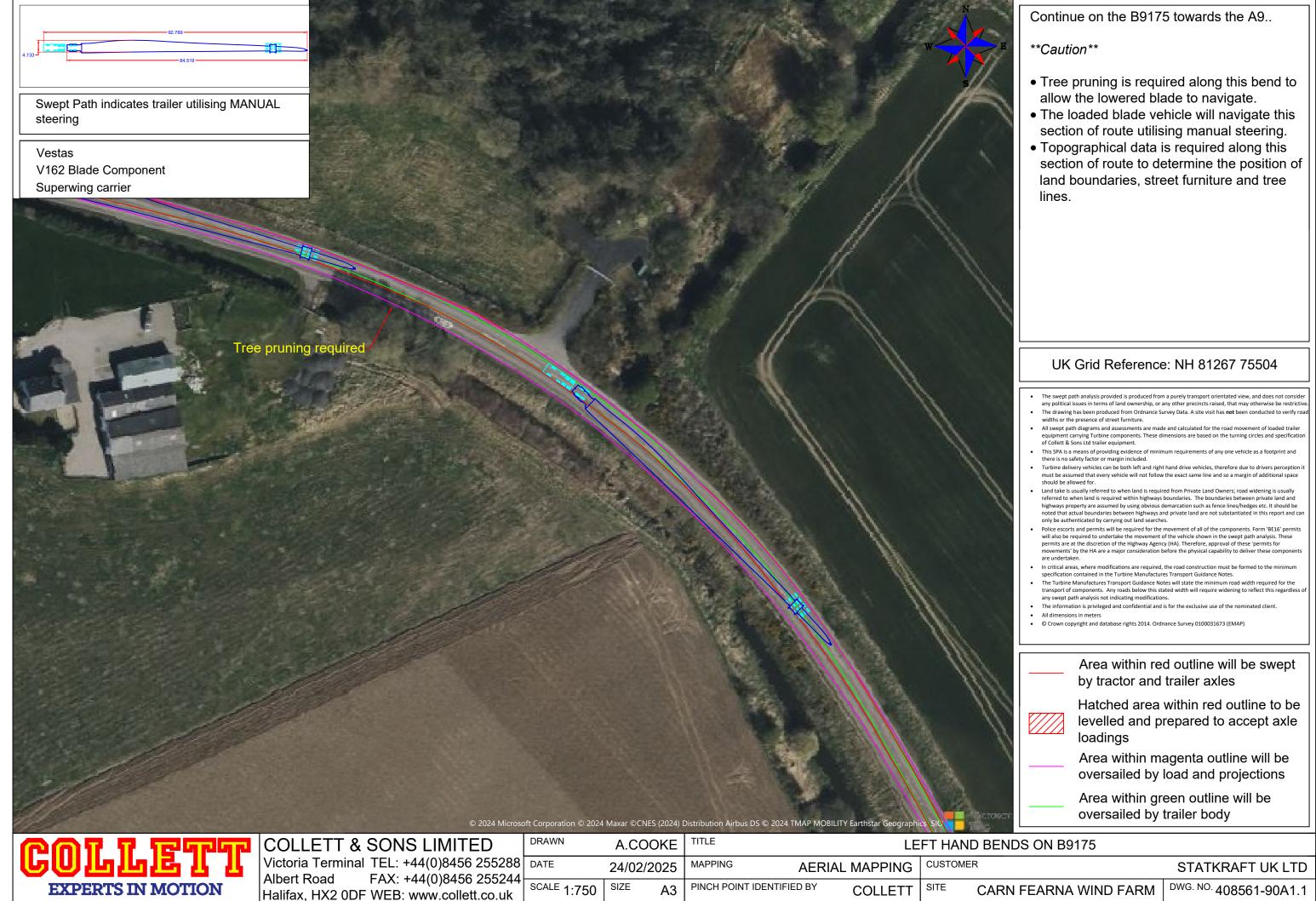
**EXPERTS IN MOTION** 

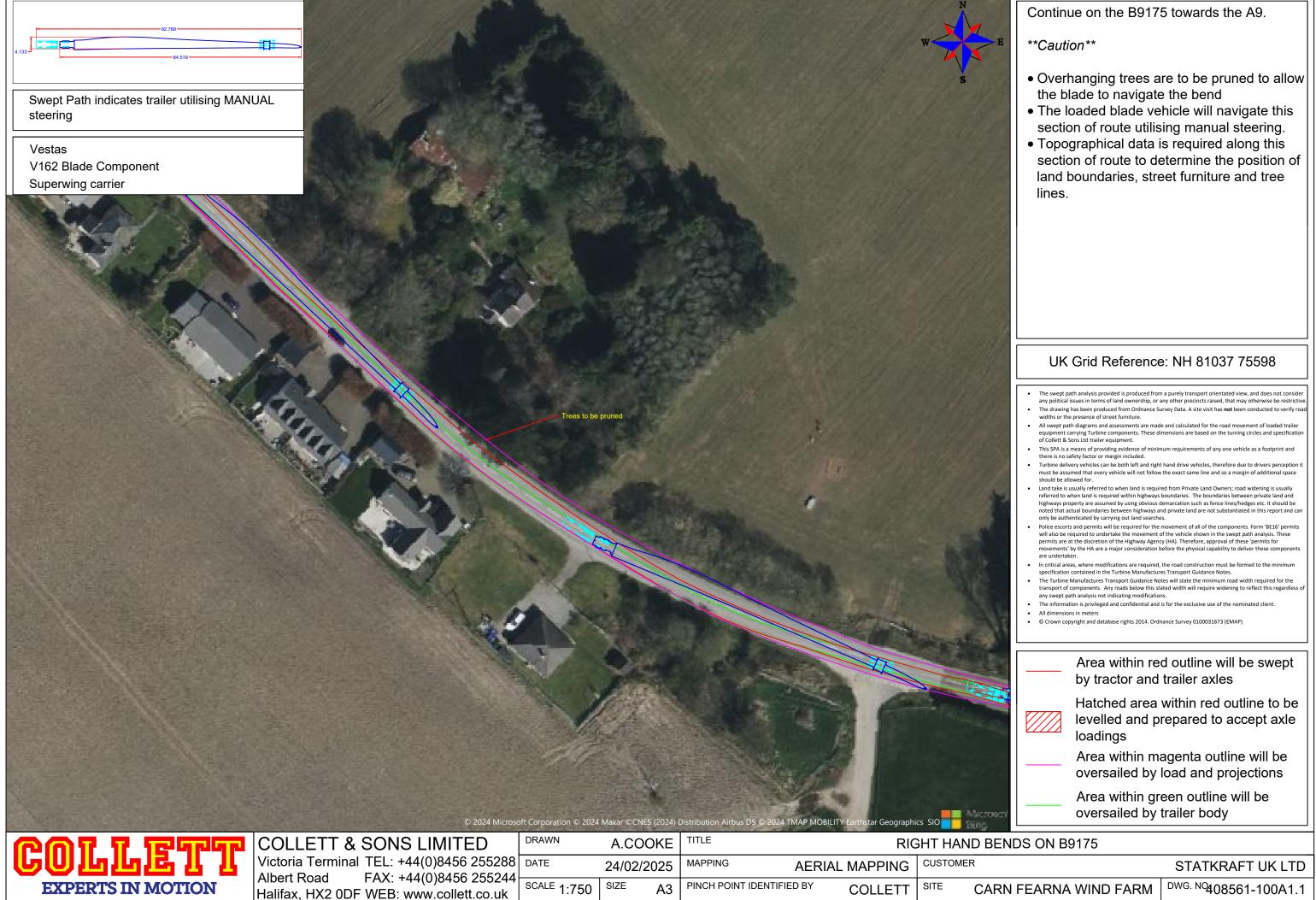
PINCH POINT IDENTIFIED BY

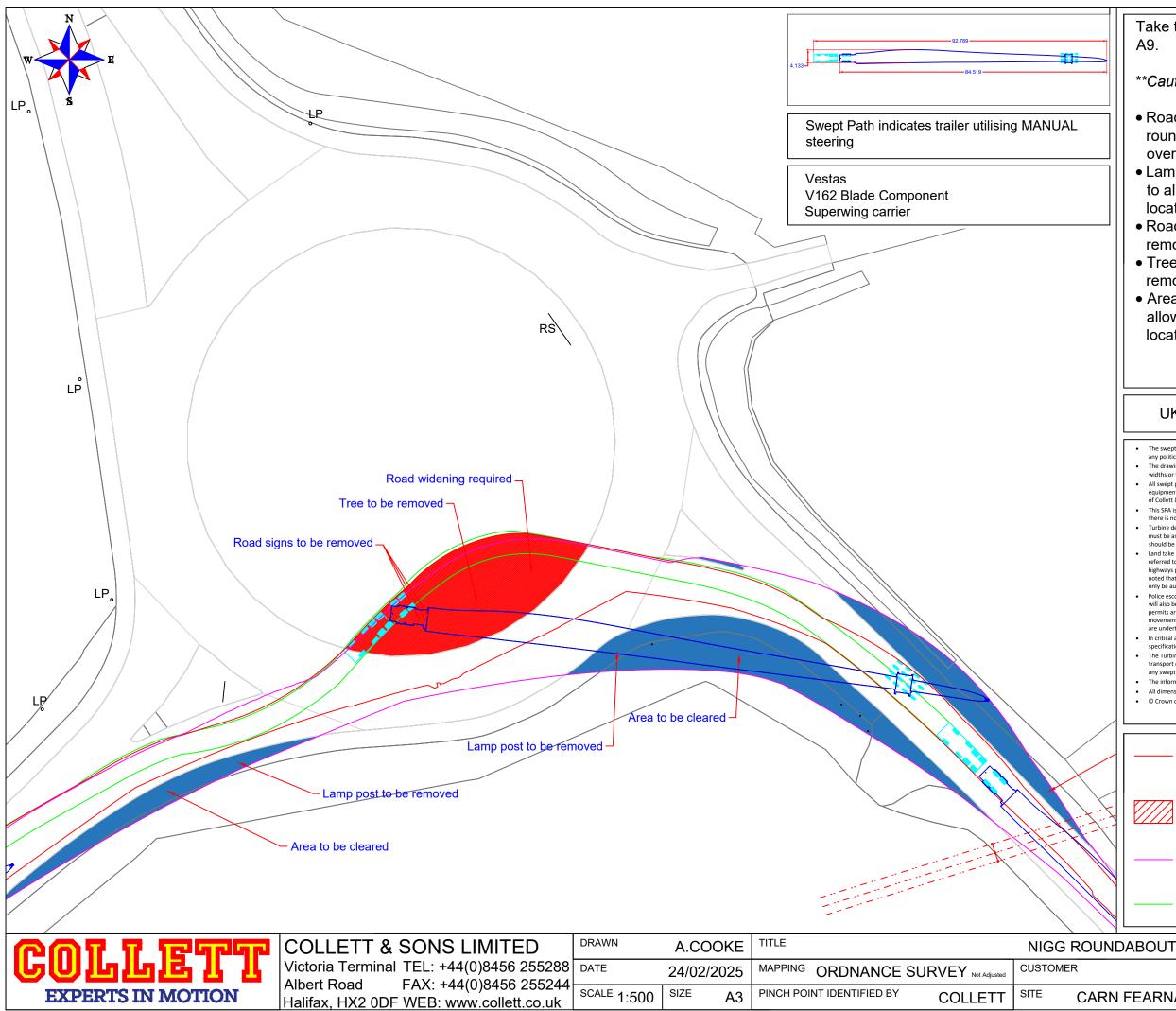
SITE

COLLETT

Continue on the B9175 towards the A9..







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

- The swept path analysis provided is produced from a purely transport orientated view, and does not conside any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictiv The drawing has been produced from Ordnance Survey Data. A site visit has not been conducted to verify ro widths or the presence of street furniture. All swept path diagrams and assessments are made and calculated for the road m equipment carrying Turbine components. These dimensions are based on the turning circles and specificati 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 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 c 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' perr 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 novements' by the HA are a major consideration before the physical capability to deliver these comp are undertaker In critical areas, where modifications are required, the road construction must be formed to the m 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 rega
- any swept path analysis not indicating modifications The information is privileged and confidential and is for the exclusive use of the no
- 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

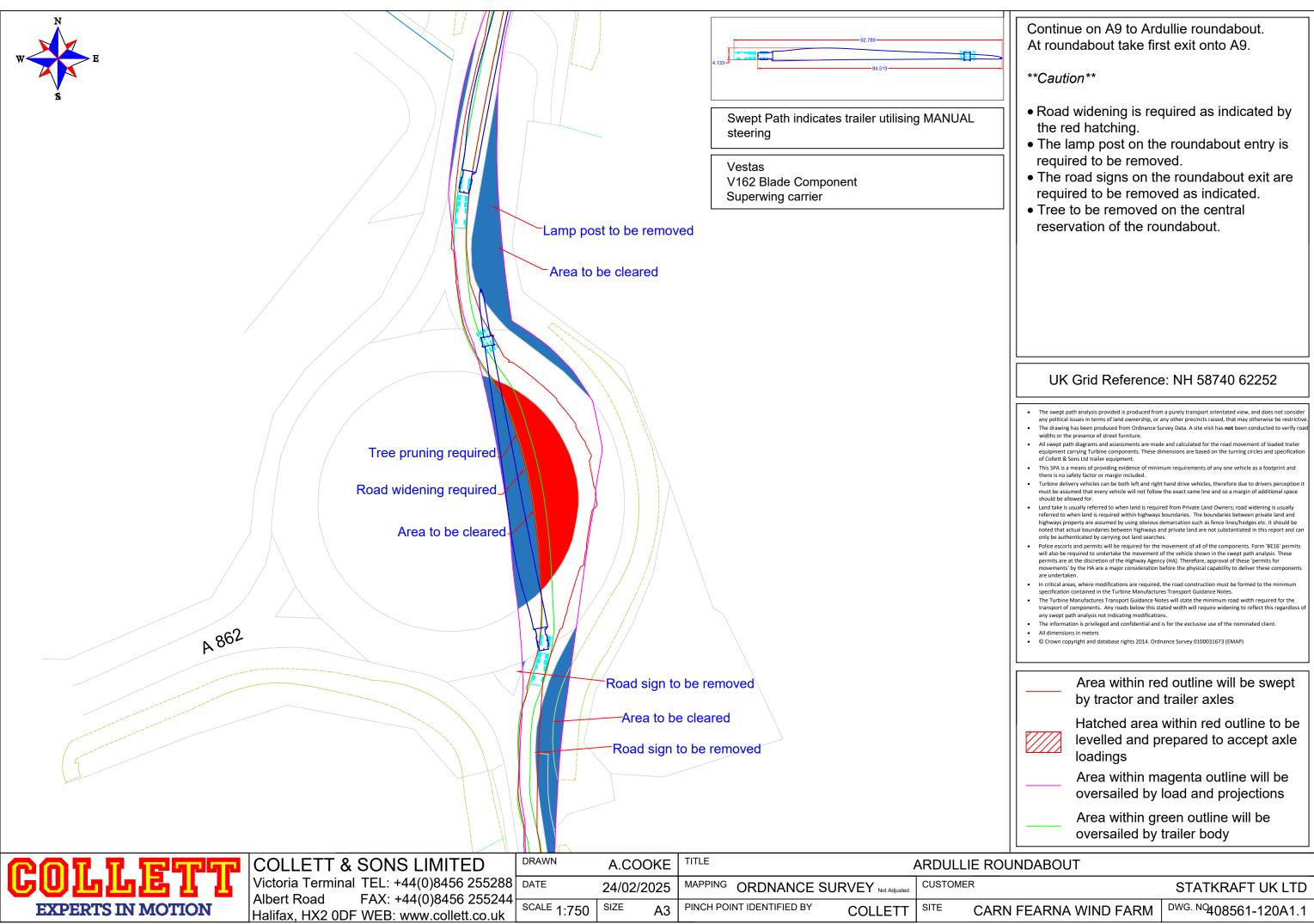
Hatched area within red outline to be levelled and prepared to accept axle loadings

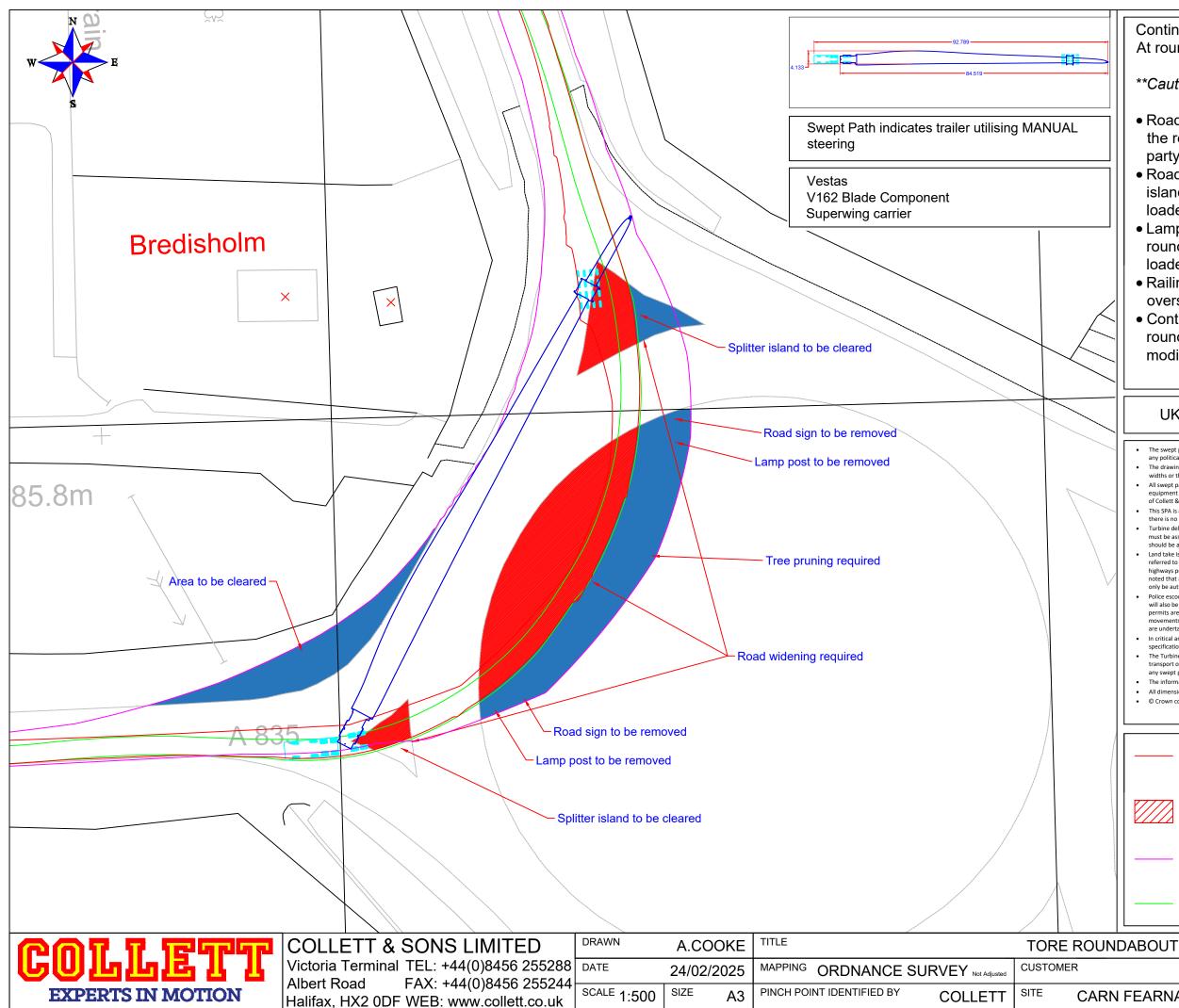
Area within magenta outline will be oversailed by load and projections

Area within green outline will be oversailed by trailer body

DWG. NO408561-110A1.1 CARN FEARNA WIND FARM

STATKRAFT UK LTD





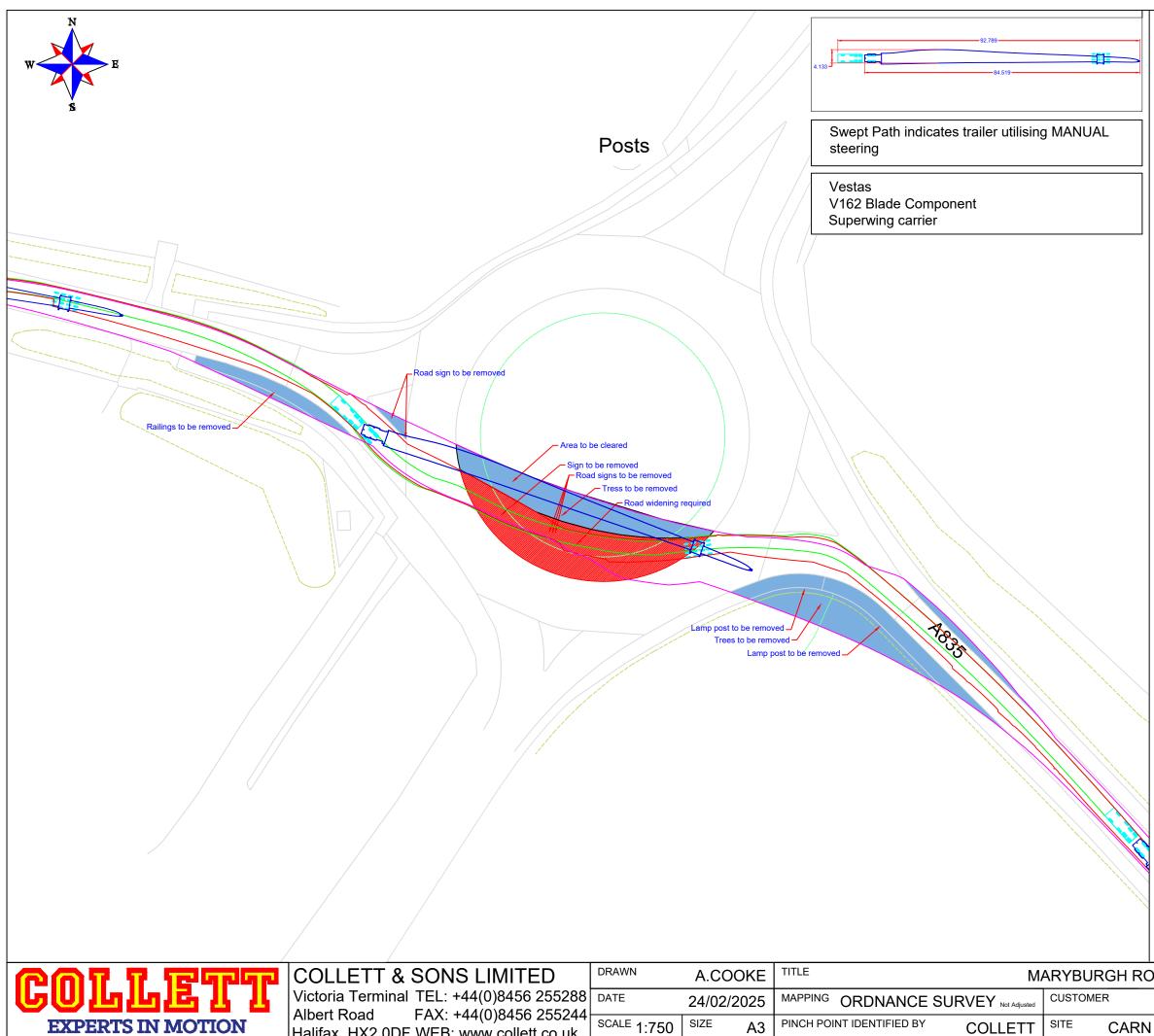
Continue on A9 to Tore roundabout. At roundabout take third exit onto A835.

\*\*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

The swept path analysis provided is produced from a purely transport orientated view, and does not conside any political issues in terms of land ownership, or any other precincts raised, that may otherwise be restrictiv The drawing has been produced from Ordnance Survey Data. A site visit has not been conducted to verify ro widths or the presence of street furniture. All swept path diagrams and assessments are made and calculated for the road n equipment carrying Turbine components. These dimensions are based on the turning circles and specificati 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 must be assumed that every vehicle will not follow the exact same line and so a margin of addit 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 c 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' per 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 ovements' by the HA are a major consideration before the physical capability to deliver these comp are undertaker In critical areas, where modifications are required, the road construction must be formed to the m 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 rega any swept path analysis not indicating modifications • The information is privileged and confidential and is for the exclusive use of the non 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 STATKRAFT UK LTD DWG. NO408561-130A1.1 CARN FEARNA WIND FARM



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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.

<ul> <li>The drawing has been produced from Ordnance Survey Data. A site visit has not been conducted to verify react widths or the presence of street furniture.</li> <li>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 Collect &amp; Sons Ut attraiter equipment.</li> <li>Turbine delivery vehicles can be both left and right hand drive wehicles, 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.</li> <li>Land take is sually referred to when land is required from Private Land Owners; road widening is usually referred to when land is required with not follow the exact same line and so a margin of additional space should be allowed for: the carving publication demarks. 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 private land are not substantiated in this report and can only be authenticated by carrying out land searches.</li> <li>Police exorts and permits will be required for the movement of all of the components. Form 'BEEP permits are an and consideration before the physical capability to deliver these components are undertaken.</li> <li>In circlia areas, where modifications are required, the road construction must be formed to the minimum specification contained in the Turbine Manufactures Transport Guidance Notes.</li> <li>The information is privileged and confidencial and is for the exclusive use of the nominated client.</li> <li>All dimensions in meters</li> <li>@ Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)</li> <li>Matcheed area withinin reed outtline will be oveersaileed by load and projections. Arrea withinin greeen outlines wil</li></ul>								
<ul> <li>any political issues in terms of land ownership, or any other predicts raised, that may otherwise be restrictive widths or the presence of street furniture.</li> <li>All swept path diagrams and assessments are made and calculated for the road novement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning crices and specification of Collett &amp; Sons Lid trailer equipment.</li> <li>This Dis Als a means of providing evidence of minimum requirements of any one vehicle as a footprint and there is no safety factor or margin included.</li> <li>Turbine delivery vehicles can be both life 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.</li> <li>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 demarcations such as fonce, lines/hedges ect. Is should be noted that actual boundaries between highways and private land are not substantiated in this report and can only be authenticated by carring out land searches.</li> <li>Police escorts and permits will be required for the movement of all of the components. Form "BLEG" permits will are a major consideration before the physical capability to deliver these components are undertake.</li> <li>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.</li> <li>The Turbine Manufactures Transport Guidance Notes will state the minimum road width required for the transport of components. Any roads below this state dwidth will require widening to reflect thi regardines of any swept path analysis ont indicating modifications.</li></ul>		JK Grid Reference: NH 54329 56974						
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Ievelled 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         UNDABOUT								
oversailed by load and projections         Area within green outline will be         oversailed by trailer body         UNDABOUT		levelled and prepared to accept axle						
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ŝ						Swept Path indicates trailer utili steering	sing MANUAL
Frodor	Splitter island to be leveled					Vestas V162 Blade Component Superwing carrier	
Bollards to be removed +							
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COLLETT	COLLETT & Victoria Terminal				A.COOKE		RIGHT HAND B
	Albert Road	FAX: +44(0)84	456 255244		25/02/2025 SIZE A3	MAPPING ORDNANCE SURVEY Not Adju PINCH POINT IDENTIFIED BY	
EXPERTS IN MOTION	Halifay HX2 ODE		lett co uk	1:750	SIZE A3	PINCH POINT IDENTIFIED BY COLLET	TT SITE CAR

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

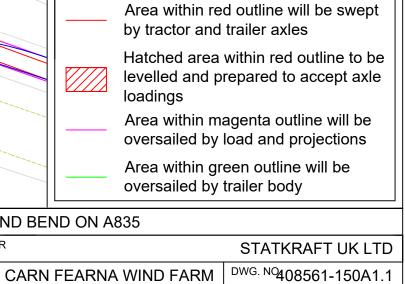
## Continue on A835 to right hand bend. Carry on through right hand bend on A835.

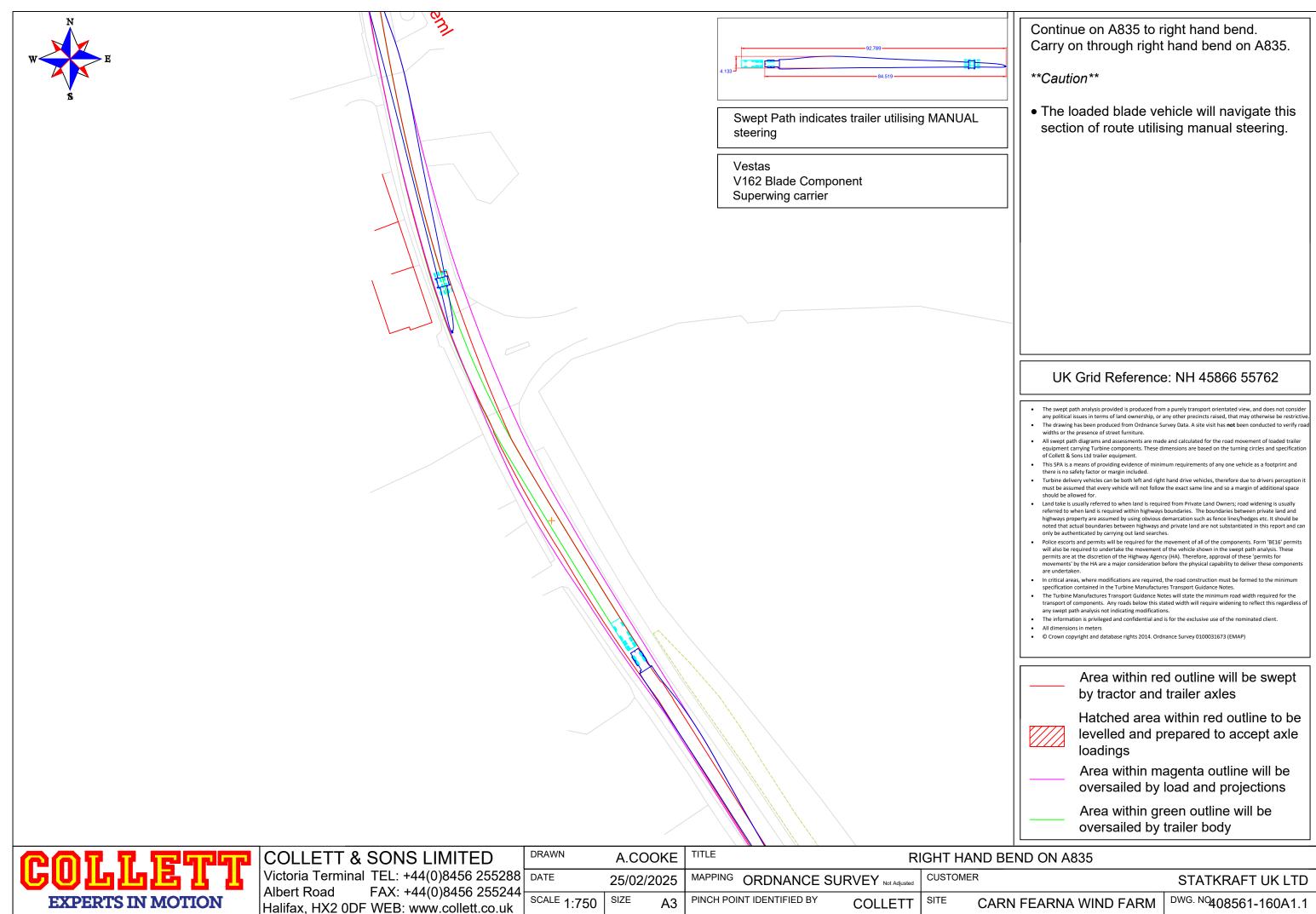
\*\*Caution\*\*

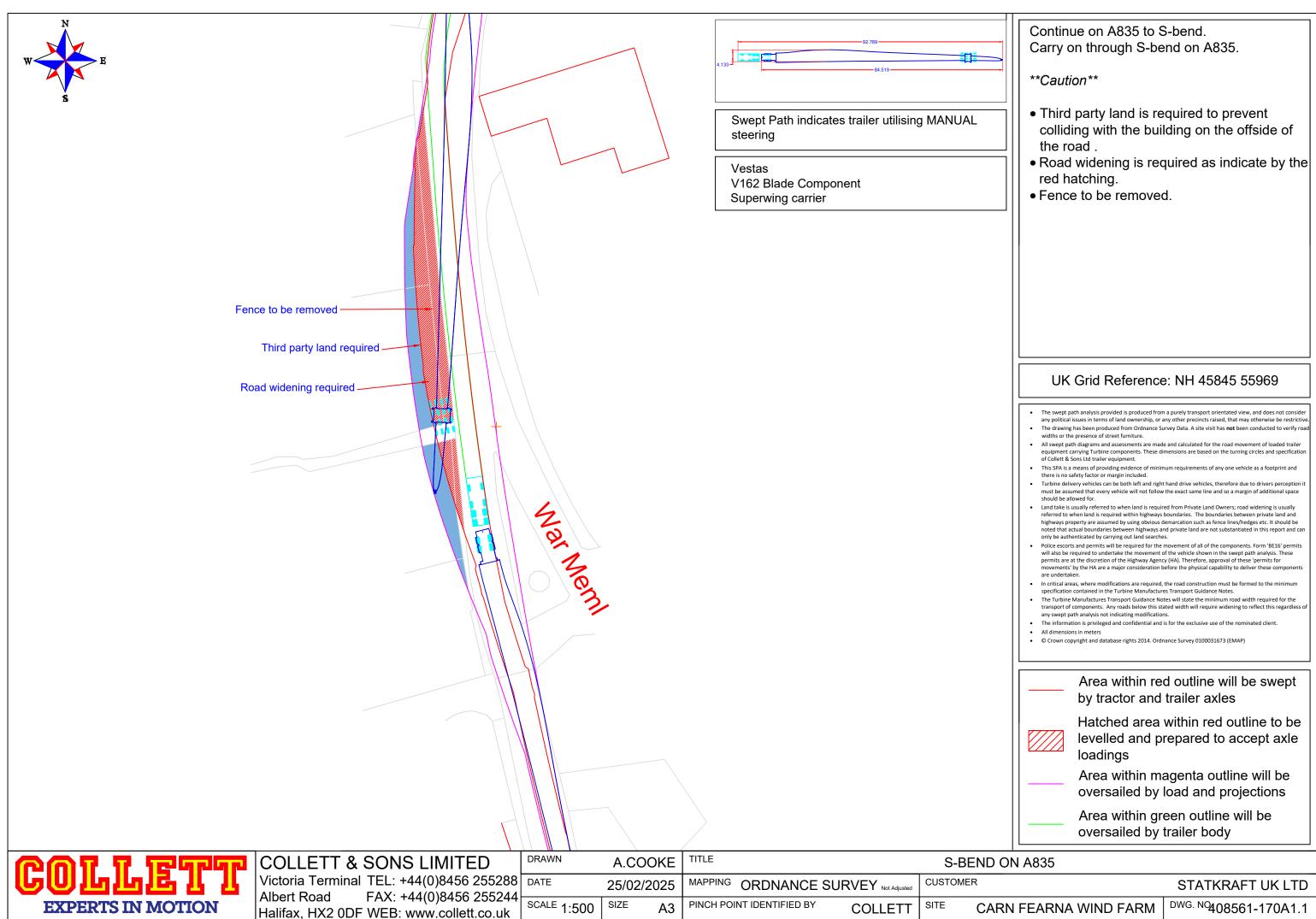
- Splitter island is to be leveled to allow the loaded blade to navigate this location.
- Bollards on the splitter island are to be removed to allow the loaded blade to oversail.

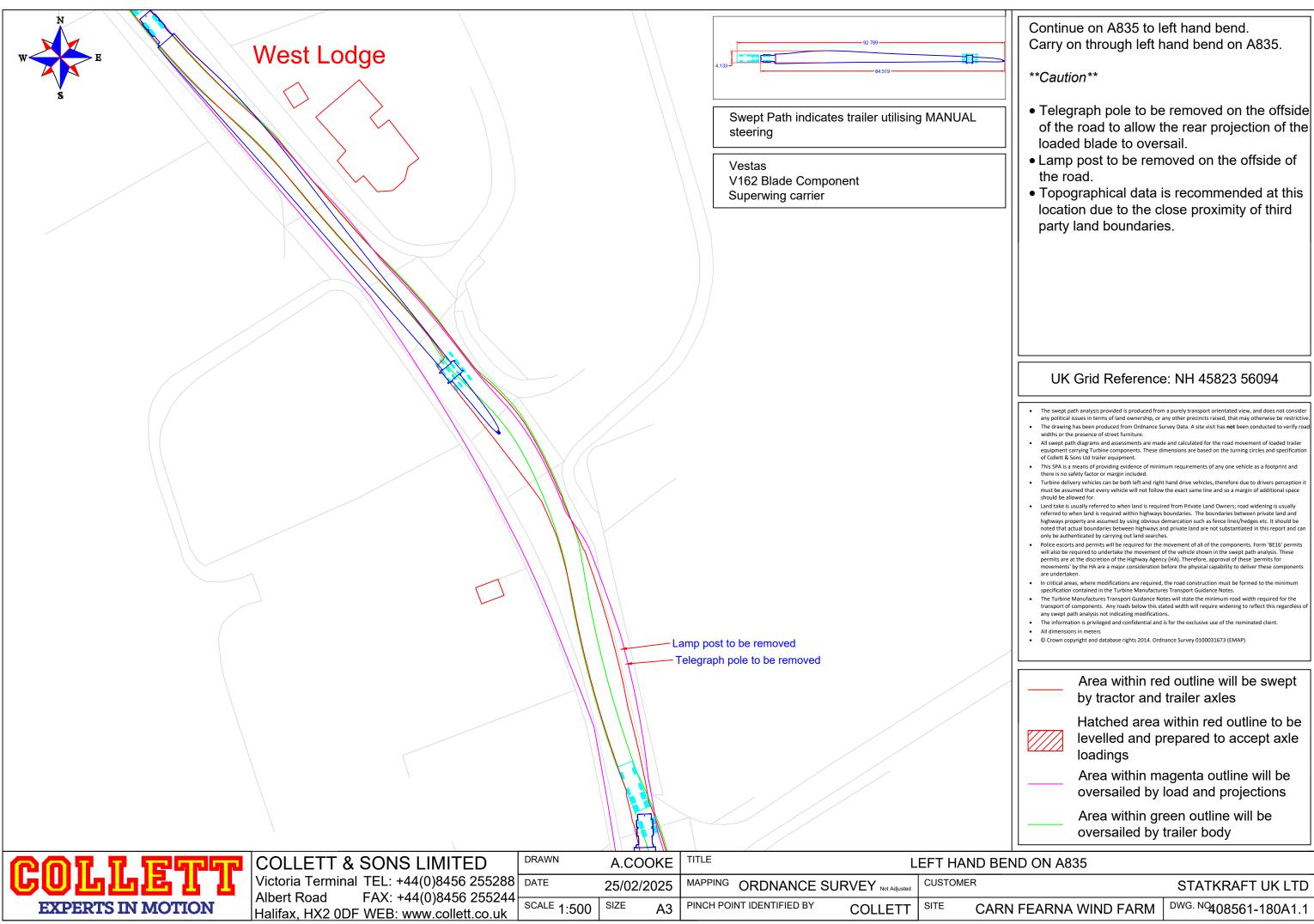
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- The information is privileged and confidential and is for the exclusive use of the nominated client
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)









		F
N E S		Swept Path indicates trailer utilising MANUAL steering
		Superwing carrier
COLLETT & SONS LIMITED Victoria Terminal TEL: +44(0)8456 255284 Albert Road FAX: +44(0)8456 255244	DRAWN         A.COOKE           8         DATE         25/02/2025           4         SCALE 4, 500         SIZE         A0	TITLE LEFT HAND BE MAPPING ORDNANCE SURVEY NOT Adjusted CUSTOMER

SCALE 1:500 SIZE

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

PINCH POINT IDENTIFIED BY

A3

SITE

COLLETT

**EXPERTS IN MOTION** 

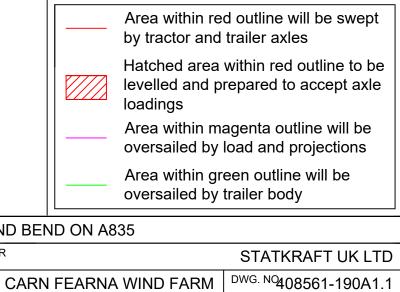
## Continue on A835 to left hand bend. Carry on through left hand bend on A835.

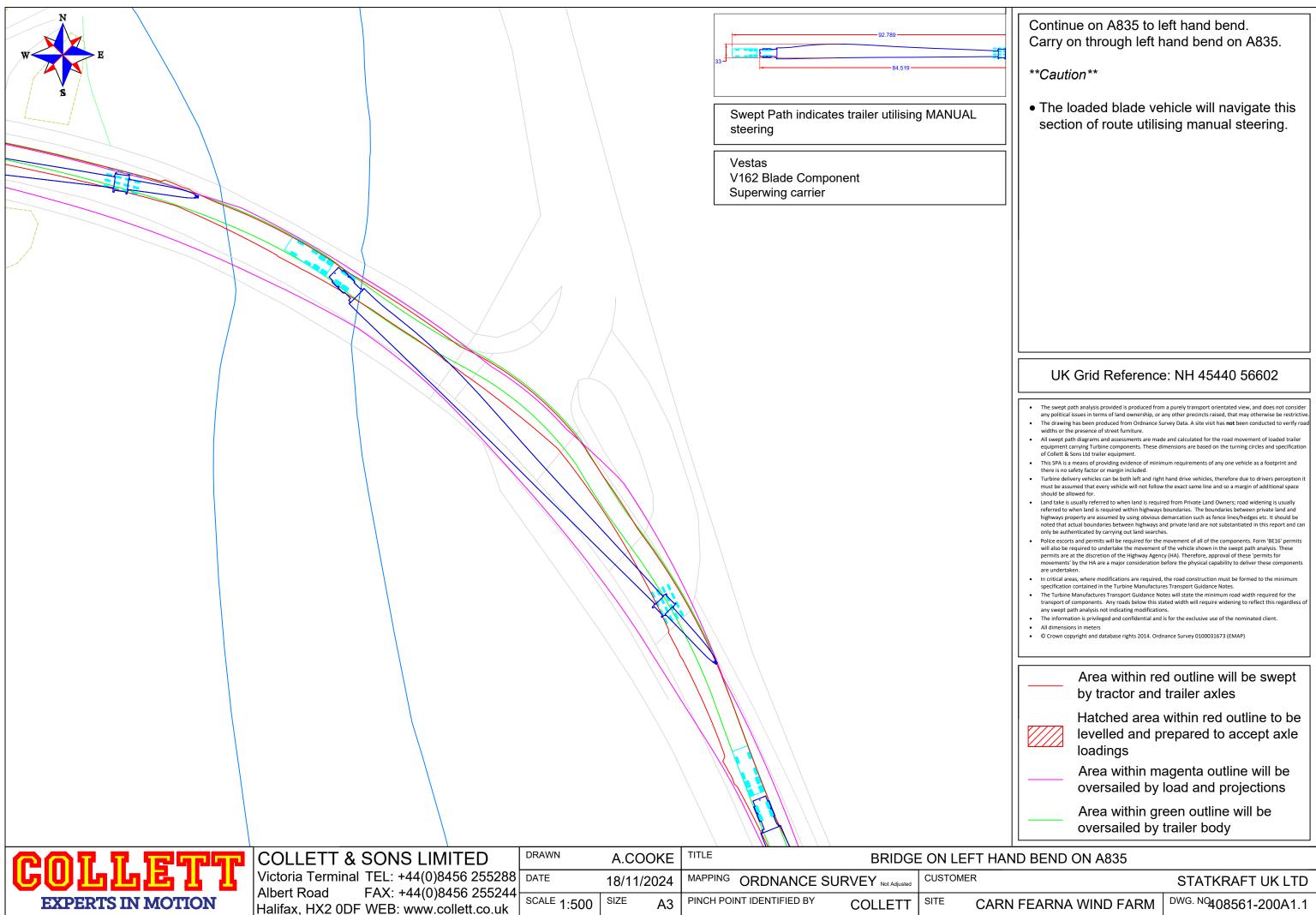
\*\*Caution\*\*

- 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.

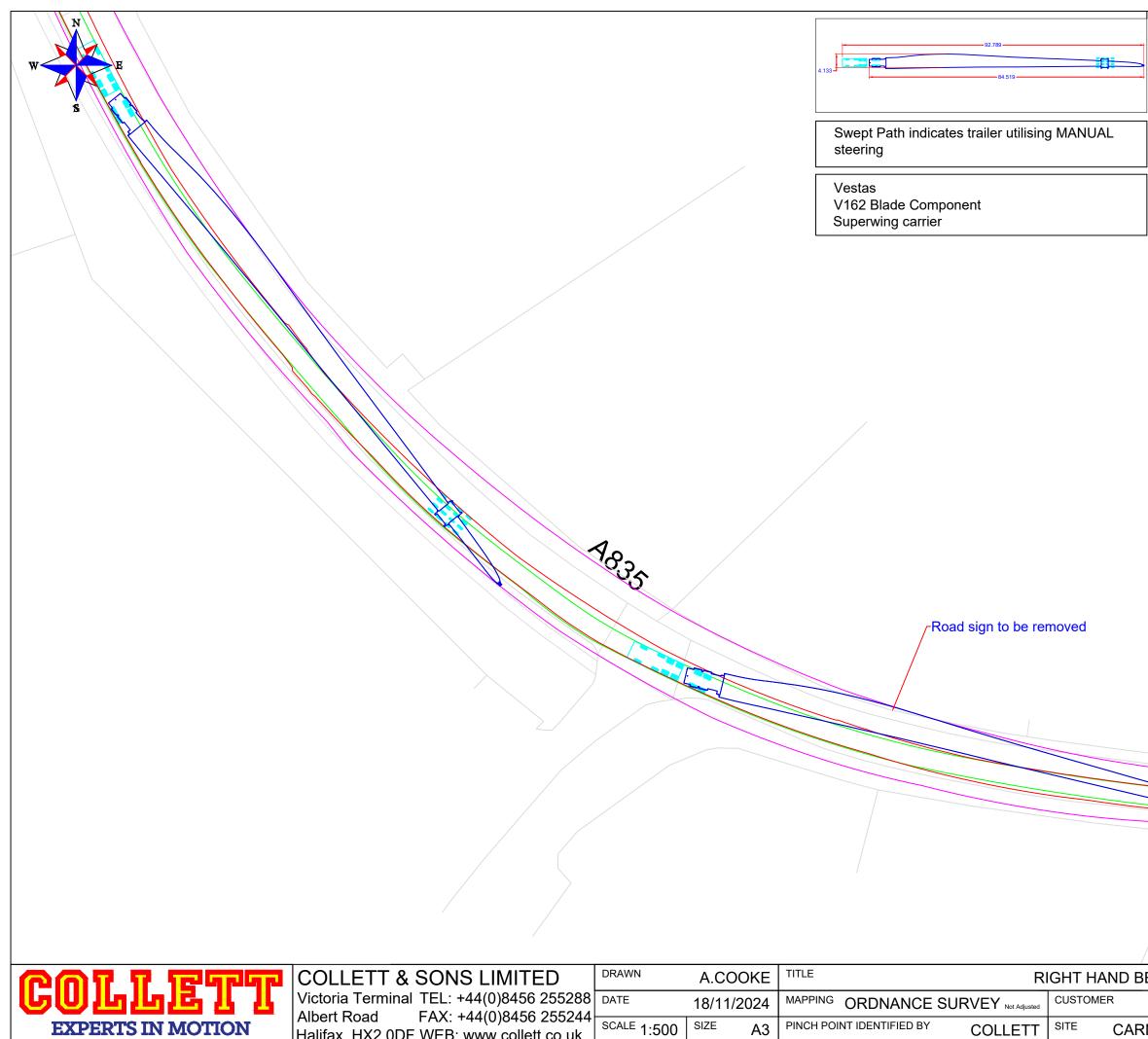
## UK Grid Reference: NH 45651 56286

- 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 roa 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 i 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 car only be authenticated by carrying out land searches.
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  will also be required to undertake the movement of the vehicle shown in the swept path analysis. These
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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 regardle
- 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)





DWG. NO408561-200A1.1 CARN FEARNA WIND FARM



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

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

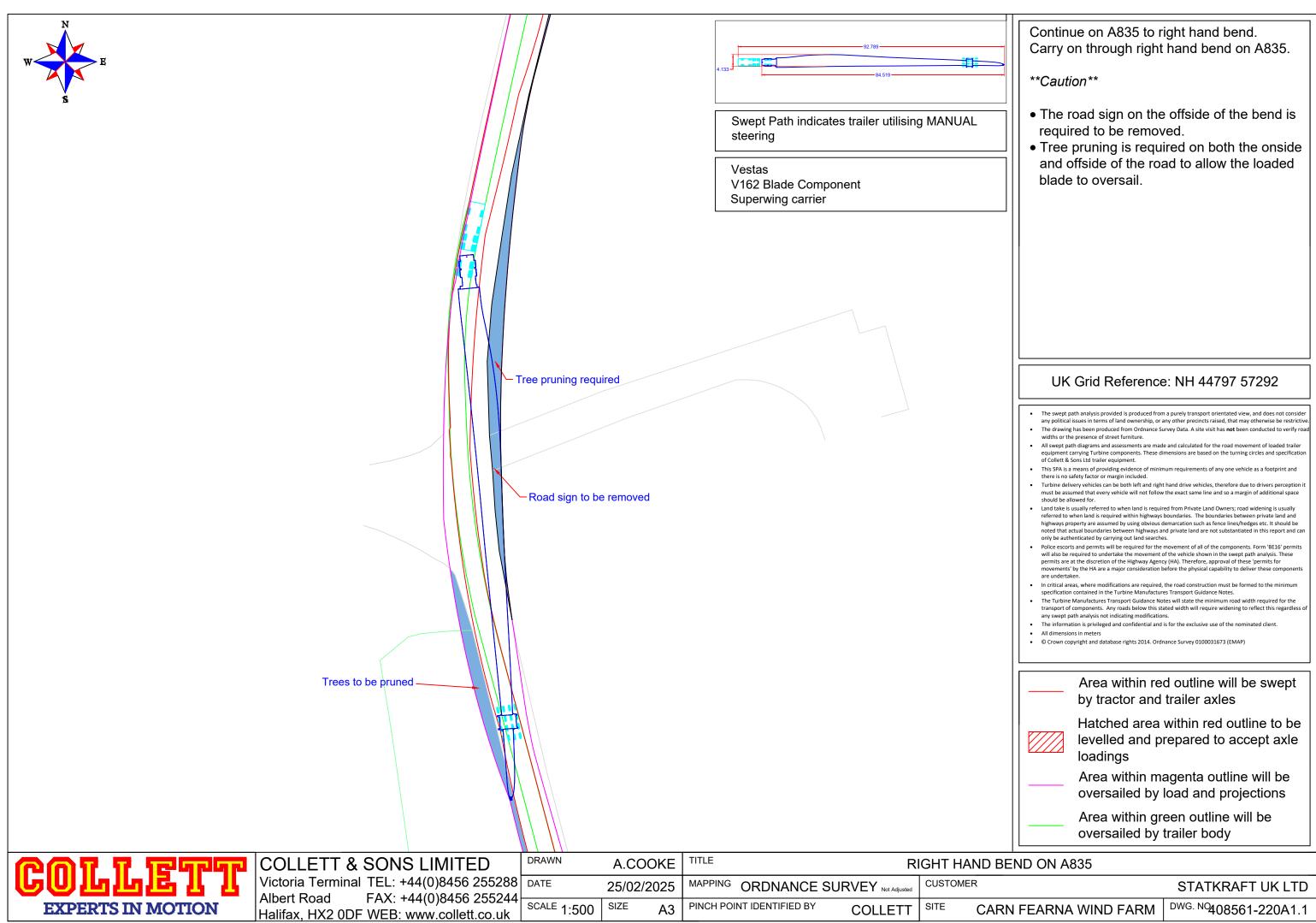
\*\*Caution\*\*

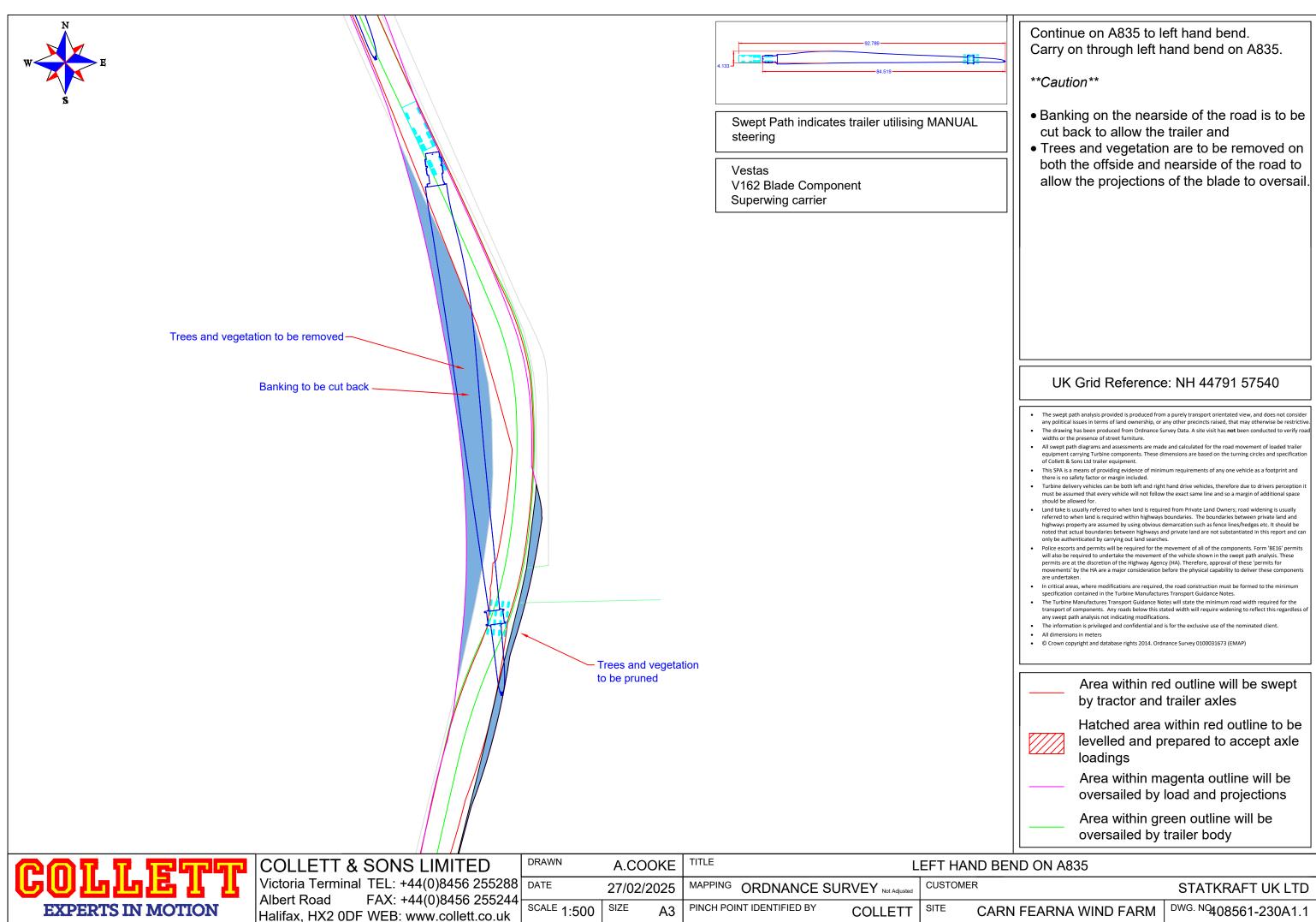
- Land Boundary to be confirmed to check if possible third party land is required.
- Road sign to be removed on the offside of the bend.

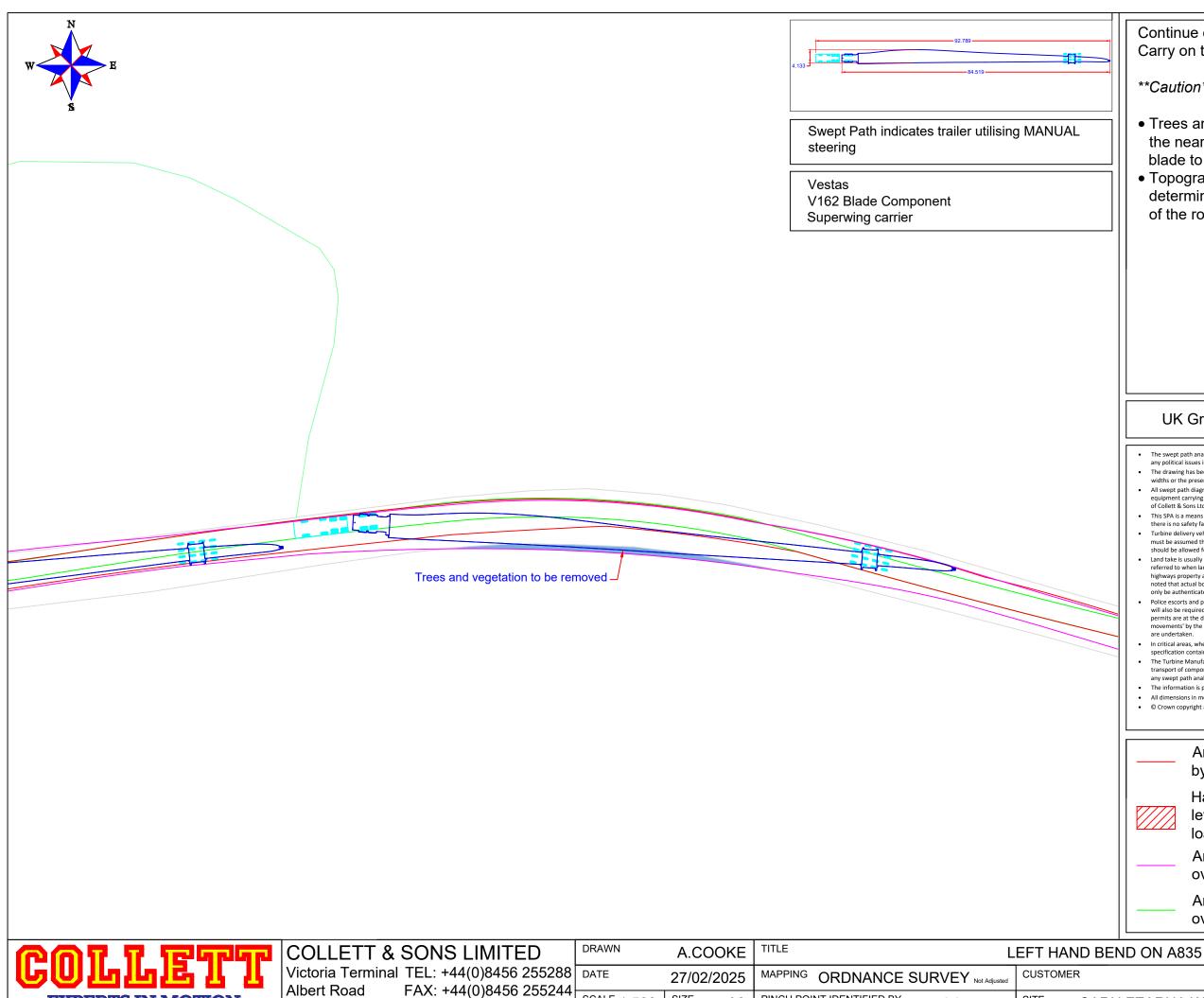
## UK Grid Reference: NH 45008 56675

- 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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- Should be any work of it.
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- 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				
END ON A835						
	STATKRAFT UK LTD					
Ν	N FEARNA WIND FARM D <sup>WG. NO</sup> 408561-210A1.1					







SCALE 1:500

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

**EXPERTS IN MOTION** 

SIZE

A3

PINCH POINT IDENTIFIED BY

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

- 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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- 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

SITE

COLLETT

# CARN FEARNA WIND FARM

STATKRAFT UK LTD DWG. NO408561-240A1.1

W E S	Swept Path indicates trailer utilising MANUAL steering
	Vestas V162 Blade Component Superwing carrier
Trees to be removed	



COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	RI	GHT HA	AND BEND
Victoria Terminal TEL: +44(0)8456 255288		27/02/2025	MAPPING ORDNANCE SU	JRVEY Not Adjusted	CUSTOM	ER
Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	COLLETT	SITE	CARN FE

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

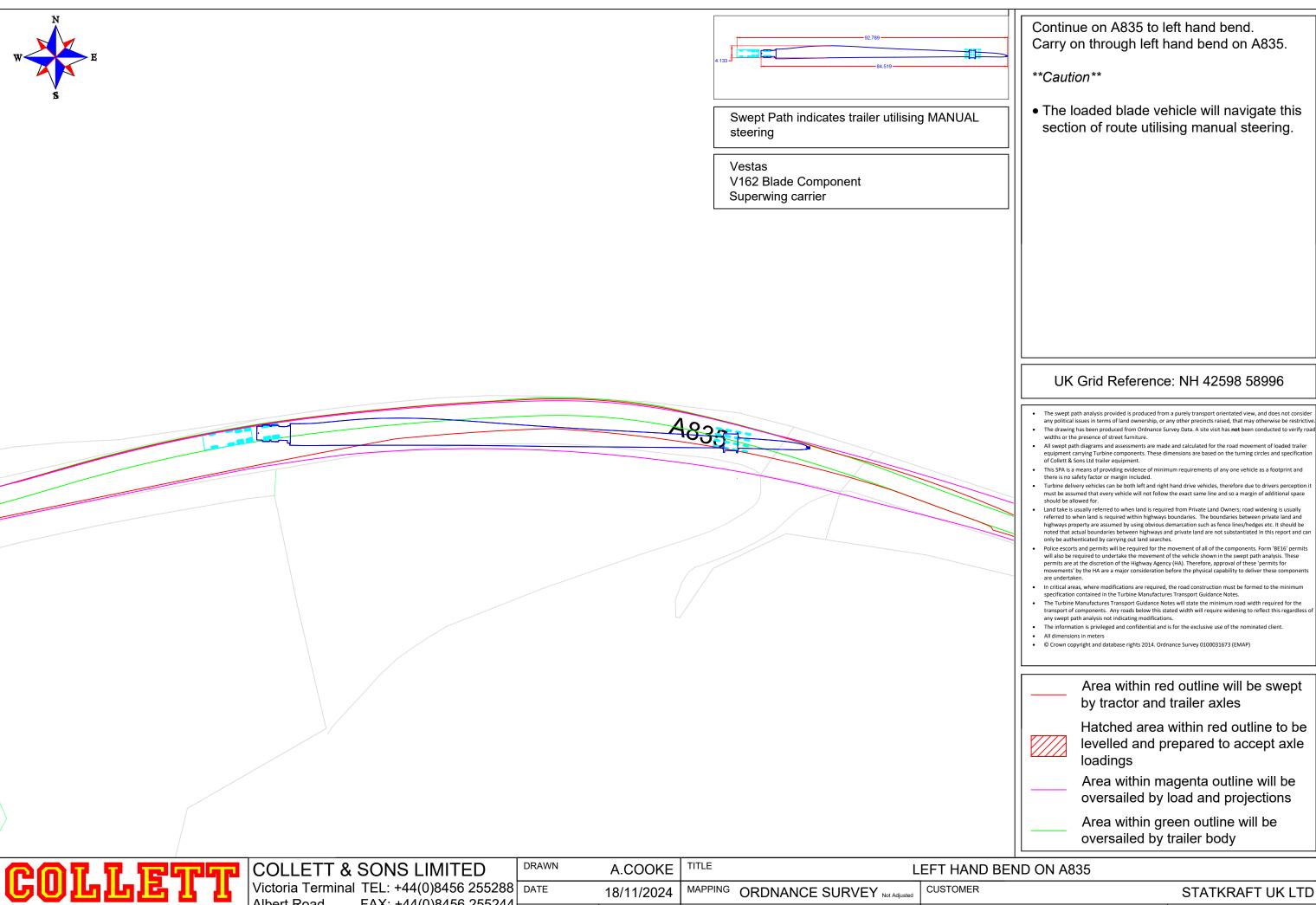
\*\*Caution\*\*

- 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

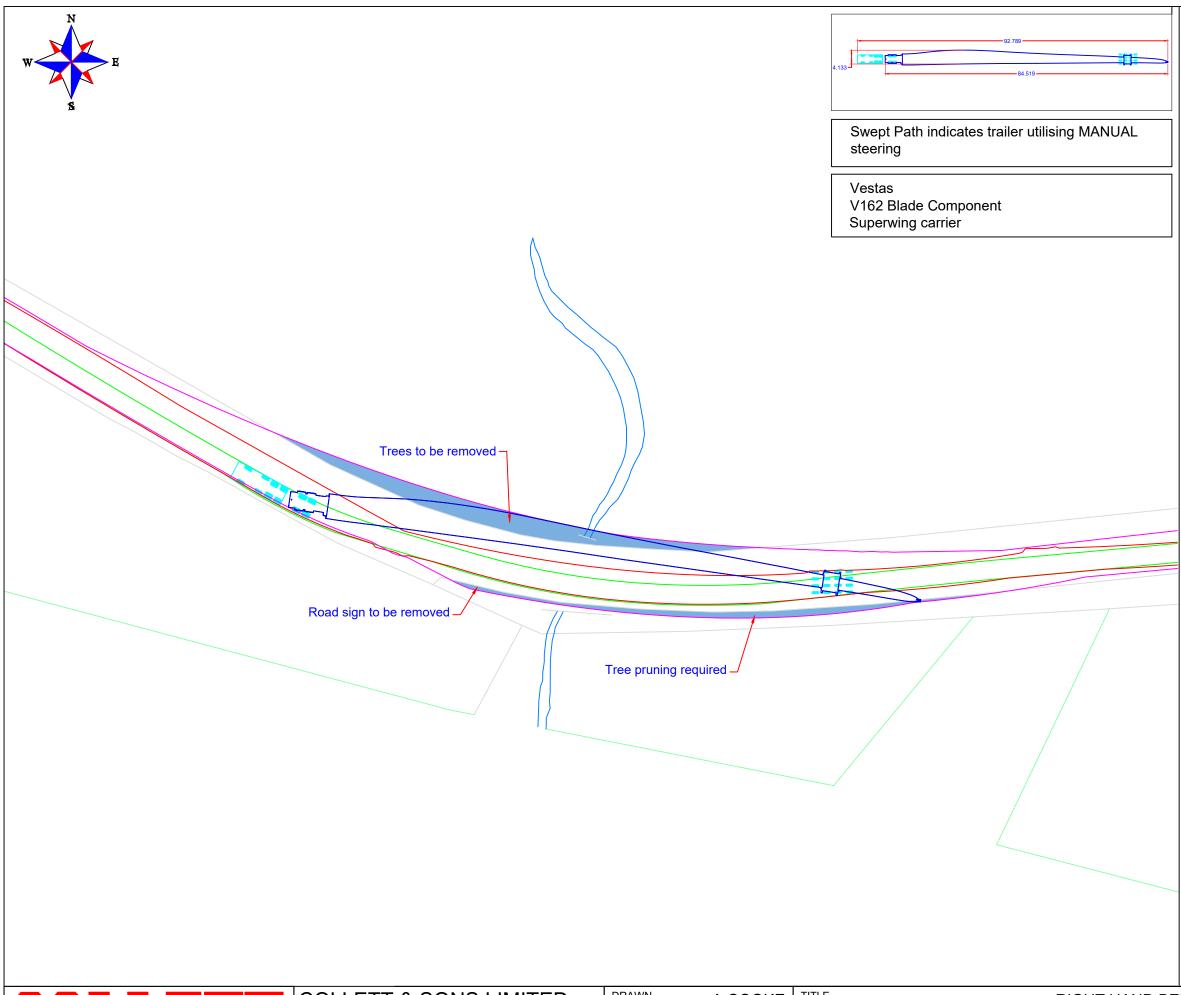
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- The information is privileged and confidential and is for the exclusive use of the nominated client.
- All dimensions in meters
- © Crown copyright and database rights 2014. Ordnance Survey 0100031673 (EMAP)

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 ND ON A835 STATKRAFT UK LTD FEARNA WIND FARM DWG. NO408561-250A1.1



COLLET	Γ
<b>EXPERTS IN MOTION</b>	

٦	COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	LEFT HAND BEND
5	Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244		18/11/2024	MAPPING ORDNANCE SURVEY Not	djusted
	Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	<sup>SCALE</sup> 1:500	SIZE A3	PINCH POINT IDENTIFIED BY COLLE	TT SITE CARN F



COLLETT
<b>EXPERTS IN MOTION</b>

COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	RI	GHT HA	AND BEND
Victoria Terminal TEL: +44(0)8456 255288	DATE	27/02/2025	MAPPING ORDNANCE S	URVEY Not Adjusted	CUSTOM	ER
Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	SCALE 1:500	SIZE A3	PINCH POINT IDENTIFIED BY	COLLETT	SITE	CARN FE

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

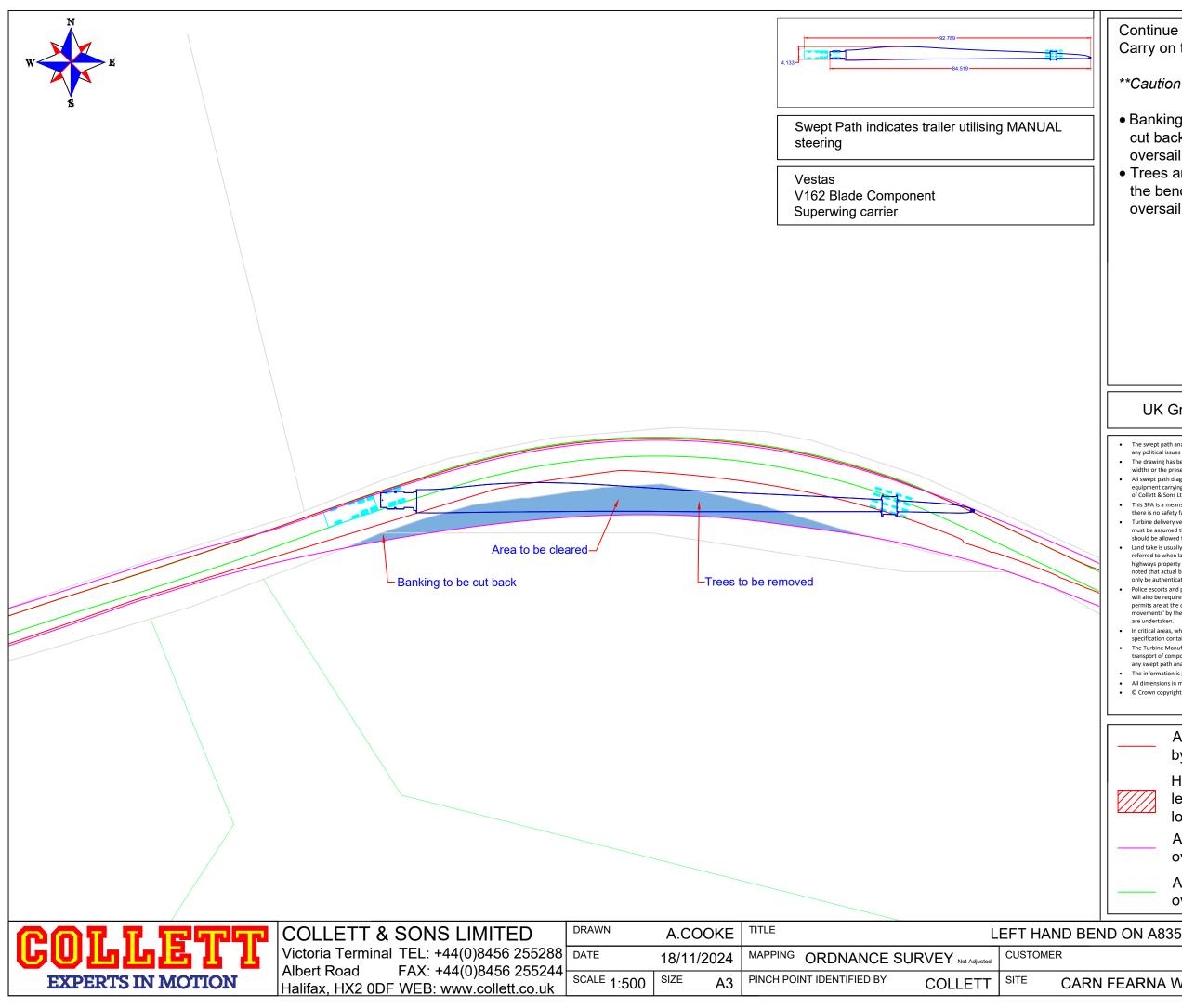
\*\*Caution\*\*

- 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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- 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 ND ON A835 STATKRAFT UK LTD



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

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

Area within red outline will be swept by tractor and trailer axles

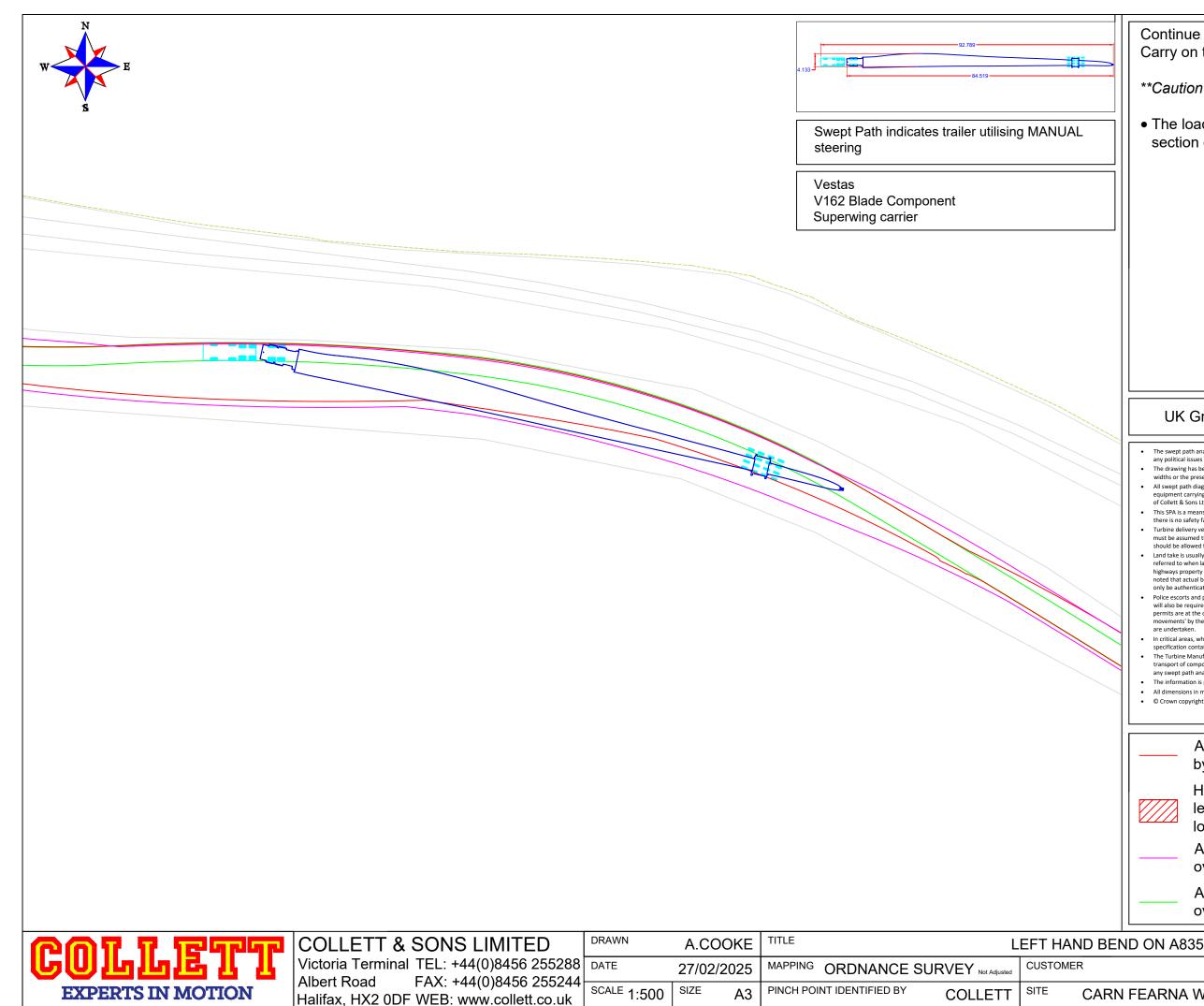
Hatched area within red outline to be levelled and prepared to accept axle loadings

Area within magenta outline will be oversailed by load and projections

Area within green outline will be oversailed by trailer body

DWG. NO408561-280A1.1 CARN FEARNA WIND FARM

STATKRAFT UK LTD



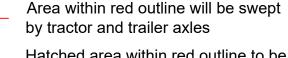
### Continue on A835 to left hand bend. Carry on through left hand bend on A835.

### \*\*Caution\*\*

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

### UK Grid Reference: NH 41250 59069

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





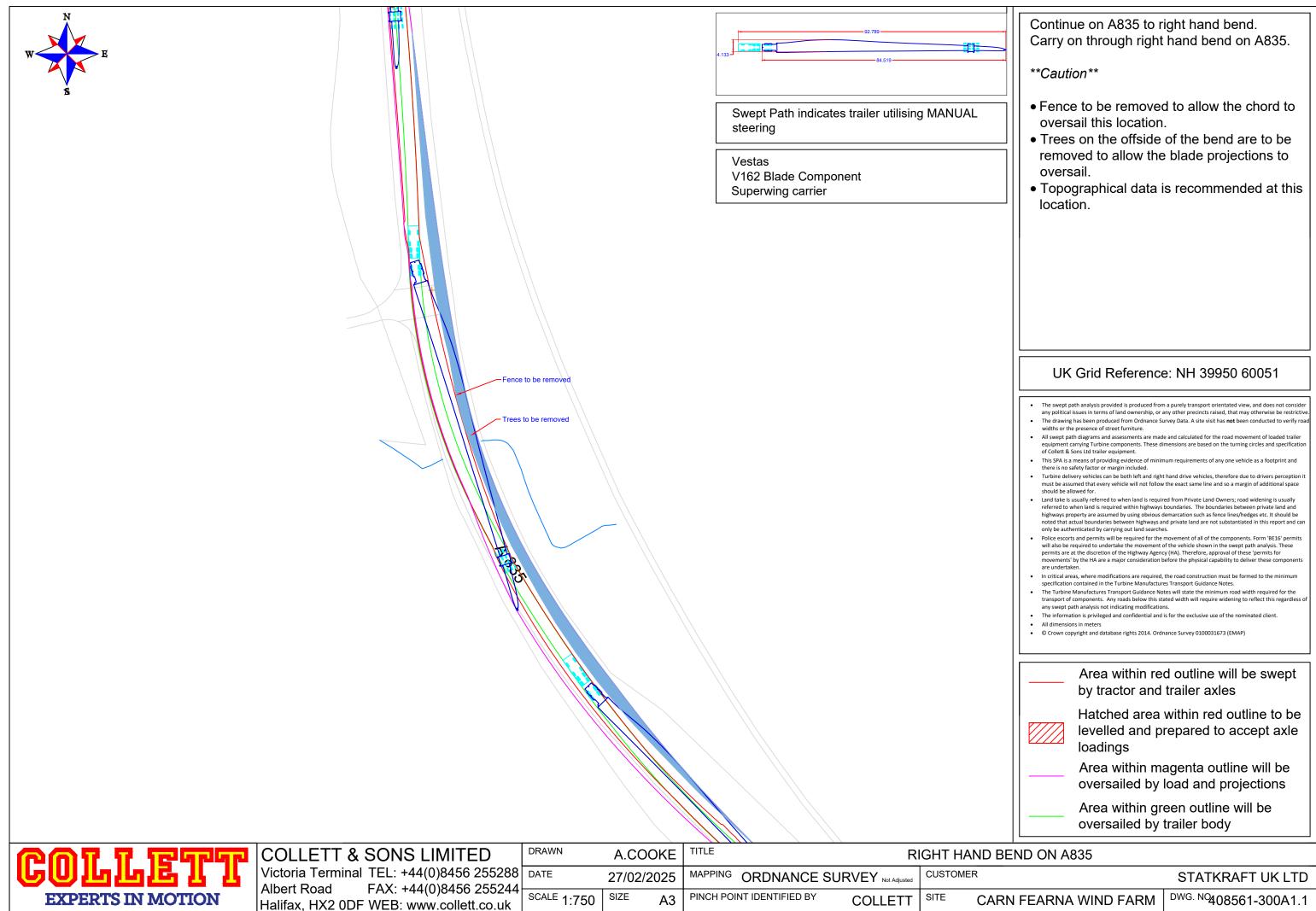
Hatched area within red outline to be levelled and prepared to accept axle loadings

Area within magenta outline will be oversailed by load and projections

Area within green outline will be oversailed by trailer body

# STATKRAFT UK LTD

DWG. NO408561-290A1.1 CARN FEARNA WIND FARM



W E S			92.789 4.133 84.519	Continue on A835 to Carry on through left **Caution**
			Swept Path indicates trailer utilisin steering	e Area in the blue hat all obstructions to a oversail.
			Vestas V162 Blade Component Superwing carrier	
	Area to be cleared			
				UK Grid Reference
				<ul> <li>The swept path analysis provided is produced fi any political issues in terms of land ownership,</li> <li>The drawing has been produced from Ordnance widths or the presence of street furniture.</li> <li>All swept path algrams and assessments are nequipment carrying Turbine components. These of Collett &amp; Sons Ltd trailer equipment.</li> <li>This SPA is a means of providing evidence of mit there is no safety factor or margin included.</li> <li>Turbine delivery vehicles can be both left and ri must be assumed that every vehicle will not foll should be allowed for.</li> <li>Land take is usually referred to when land is regrefered to when land is required within highway property are assumed by using obvion noted that actual boundaries between highway only be authenticated by carrying out land sean</li> <li>Police escorts and permits will be required with a ending are undertaken.</li> <li>In critical areas, where modifications are require specification contained in the Turbine daily and the same more margin consideration.</li> </ul>
				The Turbine Manufactures Transport Guidance transport of components. Any roads below this any swept path analysis not indicating modifica The information is privileged and confidential a All dimensions in meters     © Crown copyright and database rights 2014. O
				by tractor and
				Hatched area levelled and loadings Area within n
				oversailed by Area within g oversailed by
	COLLETT & SONS LIMITED	DRAWN A.COOKE	TITLE	_EFT HAND BEND ON A835
· · · · · · · · · · · · · · · · · · ·	Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	DATE 27/02/2025	MAPPING ORDNANCE SURVEY Not Adjusted	CUSTOMER
EXPERTS IN MOTION	Halifax, HX2 0DF WEB: www.collett.co.uk	SCALE 1:750 SIZE A3	PINCH POINT IDENTIFIED BY COLLETT	SITE CARN FEARNA WIND FARM

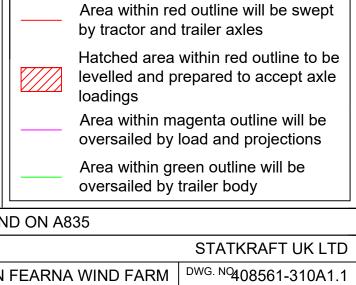
### Continue on A835 to left hand bend. Carry on through left hand bend on A835.

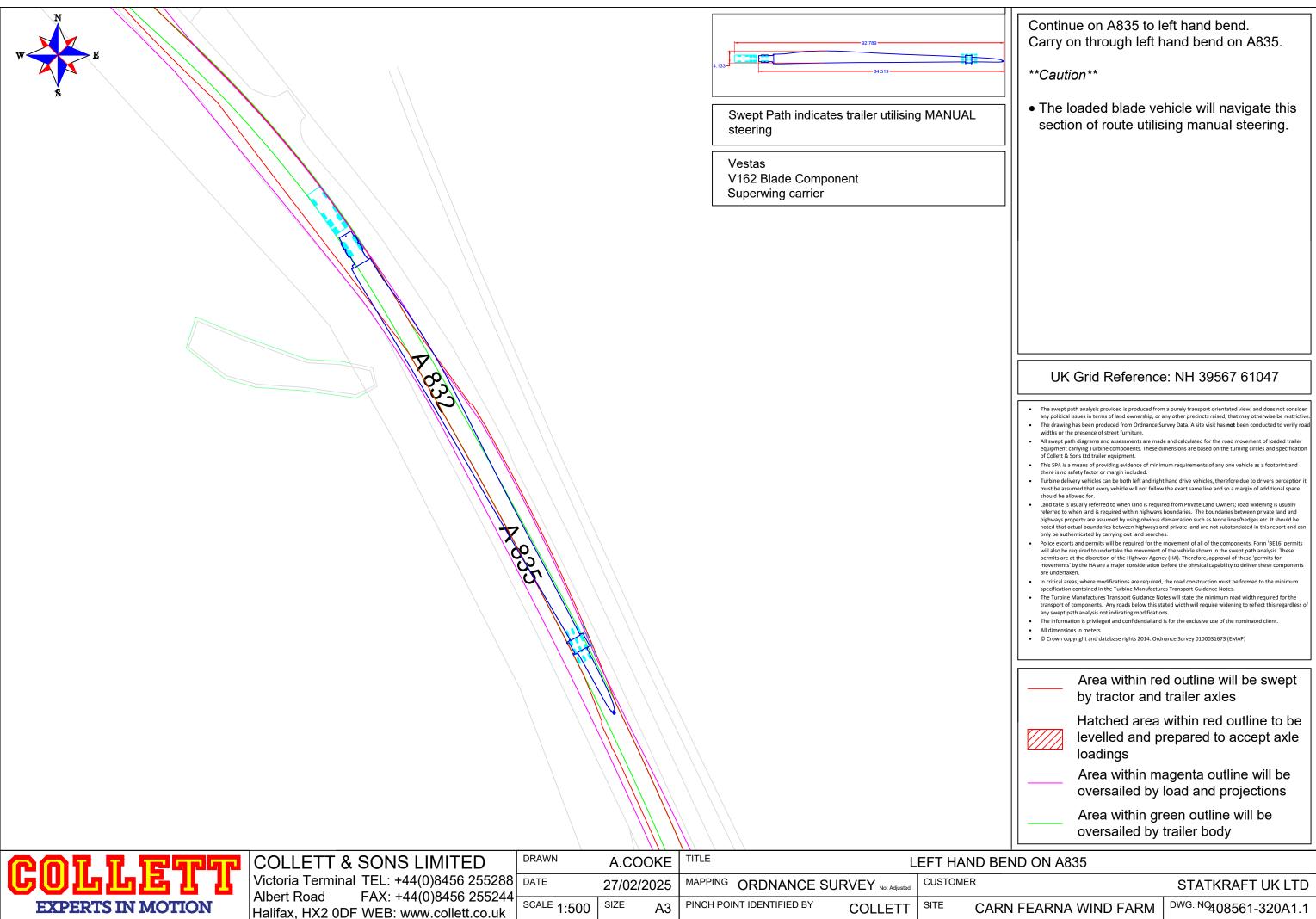
### \*\*Caution\*\*

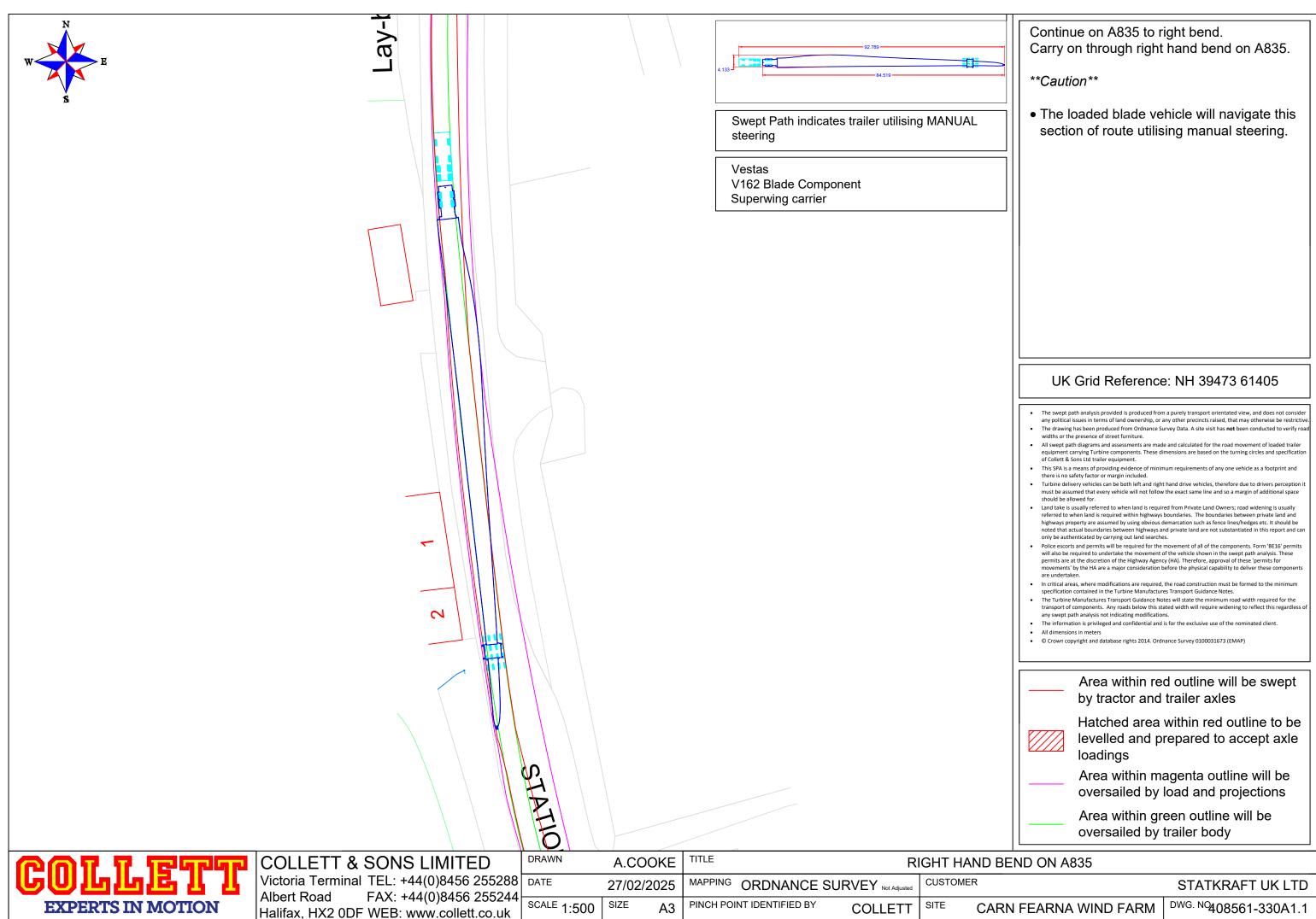
• Area in the blue hatching is to be cleared of all obstructions to allow the loaded blade to oversail.

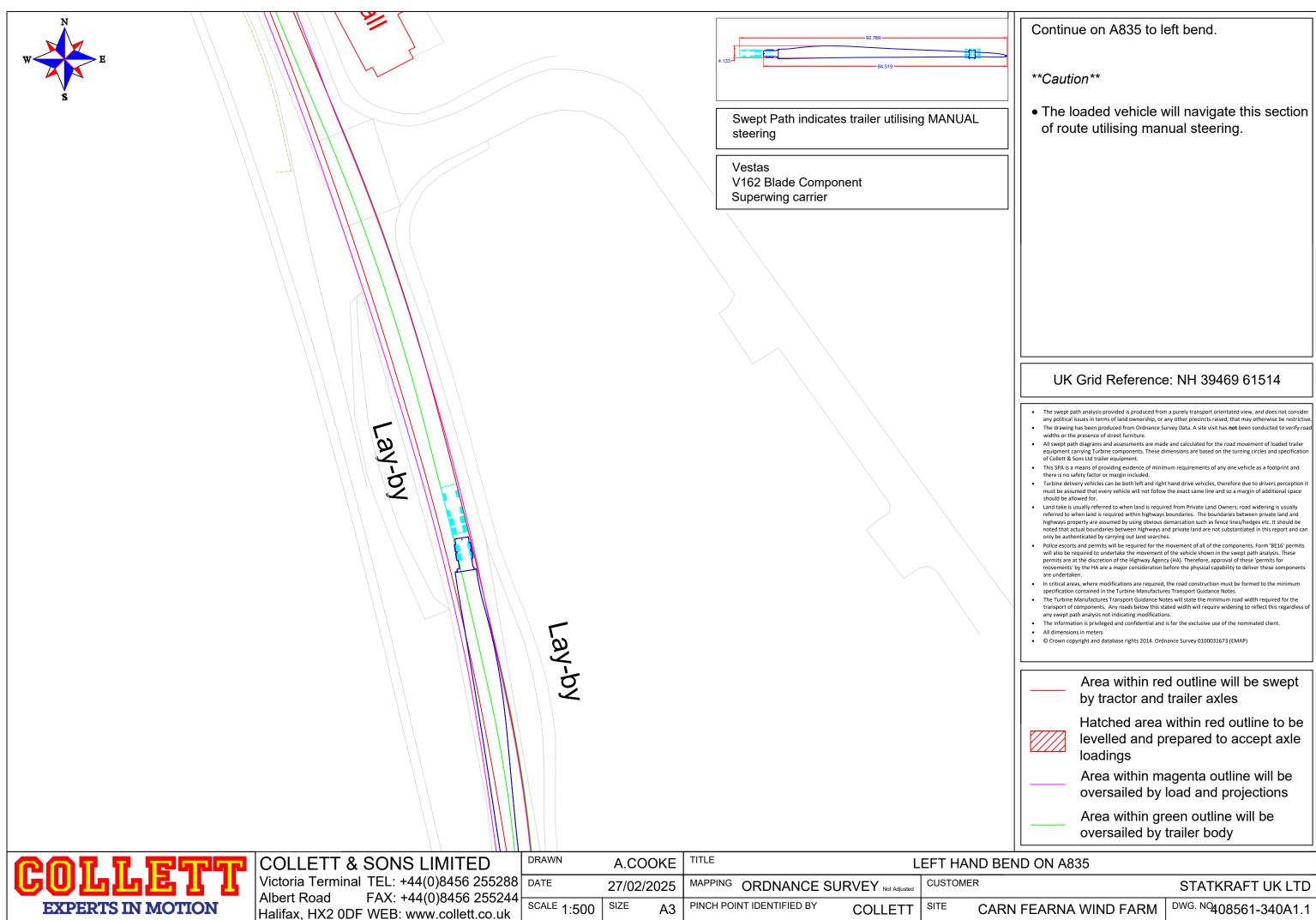
### UK Grid Reference: NH 39911 60412

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









The second secon		Sm			Swept Path indica steering Vestas V162 Blade Comp Superwing carrier	onent	) MANUAL		
		SONS LIMITED TEL: +44(0)8456 255288	DRAWN	A.COOKE			EFT HAN		10
	Albert Road	FAX: +44(0)8456 255244	SCALE 1:500	27/02/2025 <sup>SIZE</sup> A3	MAPPING ORDNANCE S PINCH POINT IDENTIFIED BY				
<b>EXPERTS IN MOTION</b>	Halifax, HX2 0DF	WEB: www.collett.co.uk	1:500	<sup>SIZE</sup> A3		COLLETT	0.12	CARN	F

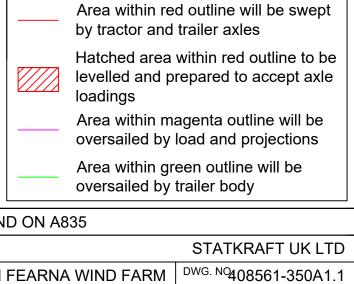
Continue on A835 to left bend.

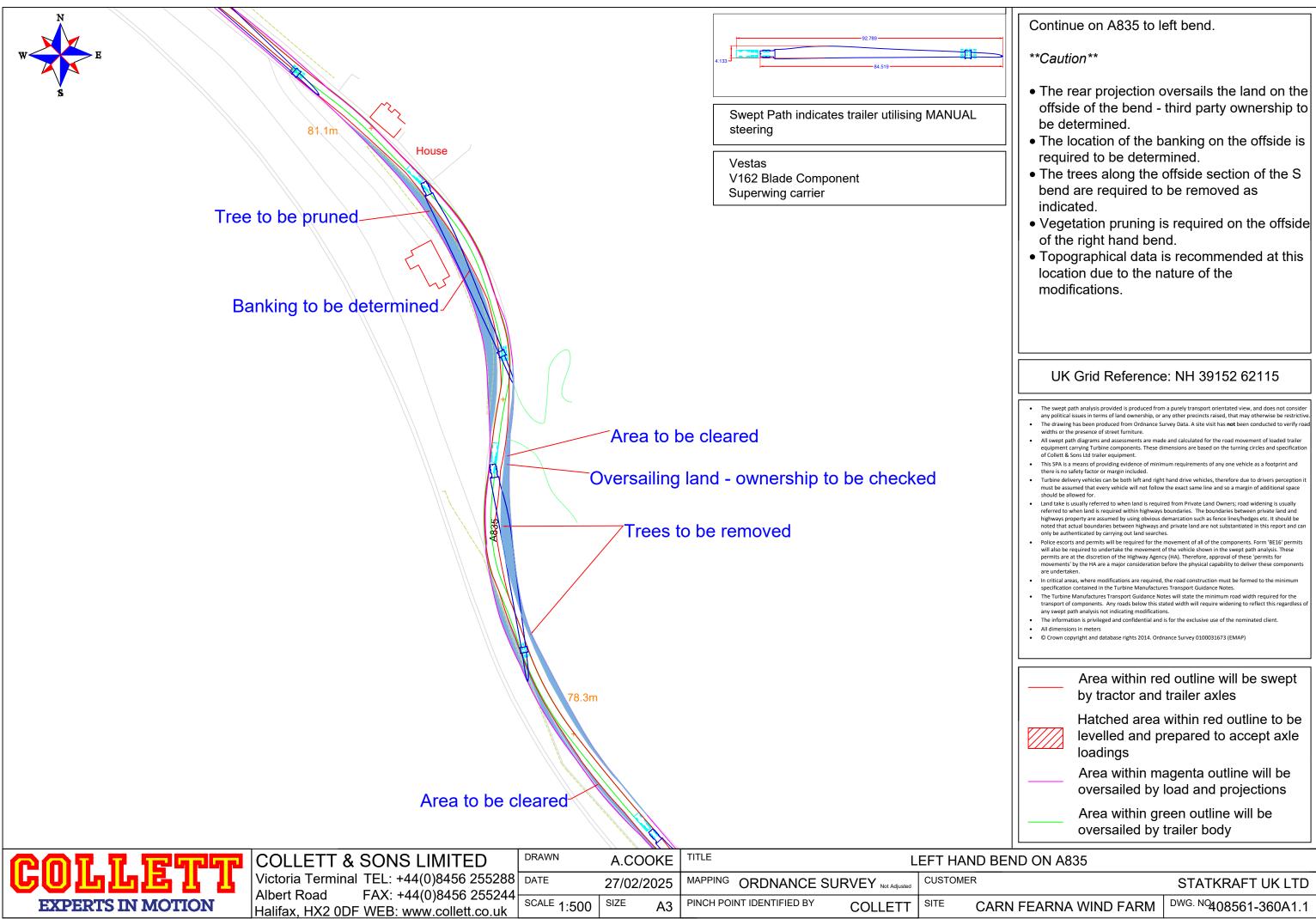
\*\*Caution\*\*

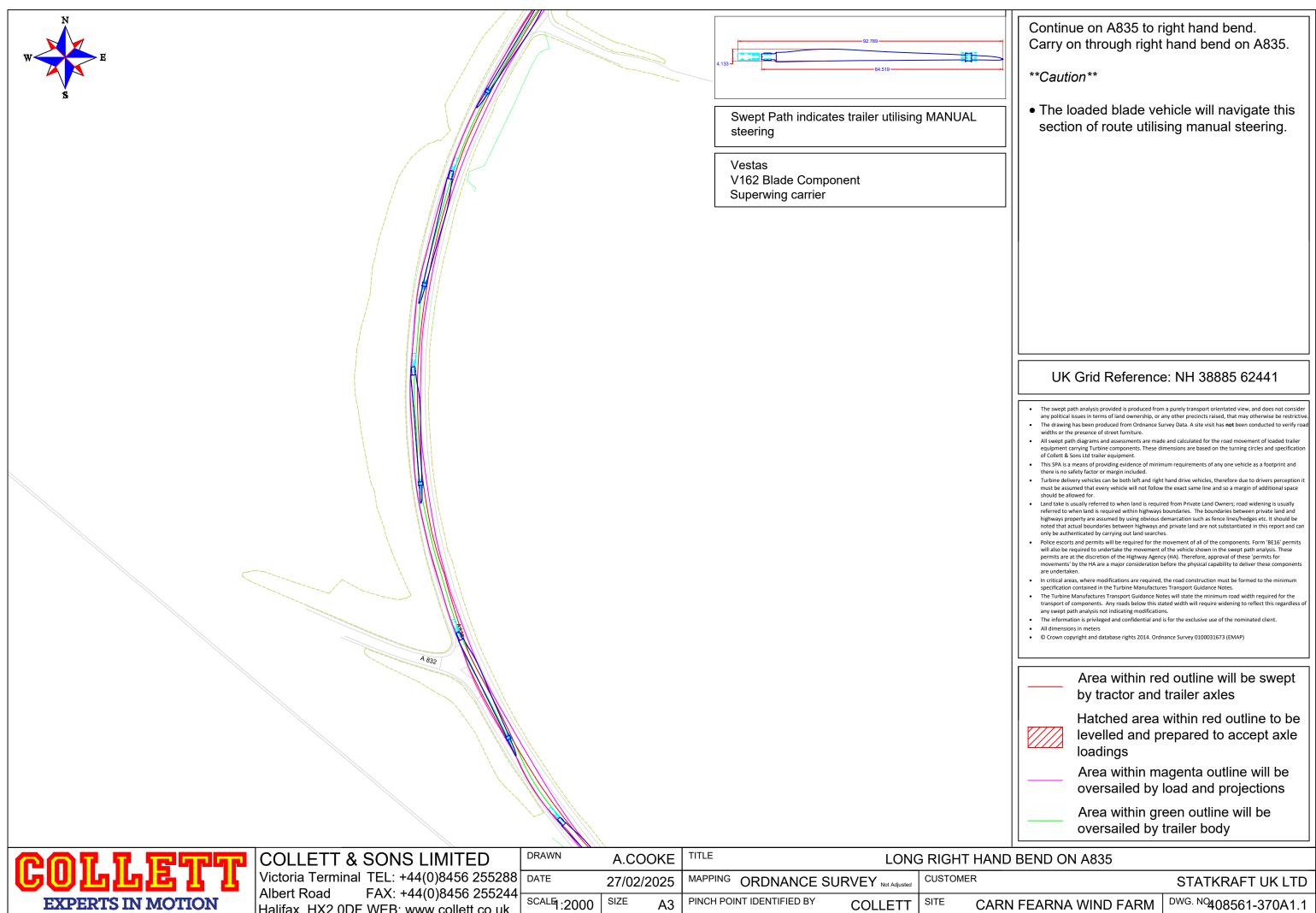
- The rock face boundary is required to be cut back - topographical data is recommended to confirm this.
- Trees and hedges are to be pruned on the nearside of the bend to allow the projections of the loaded blade to oversail.

### UK Grid Reference: NH 39159 62011

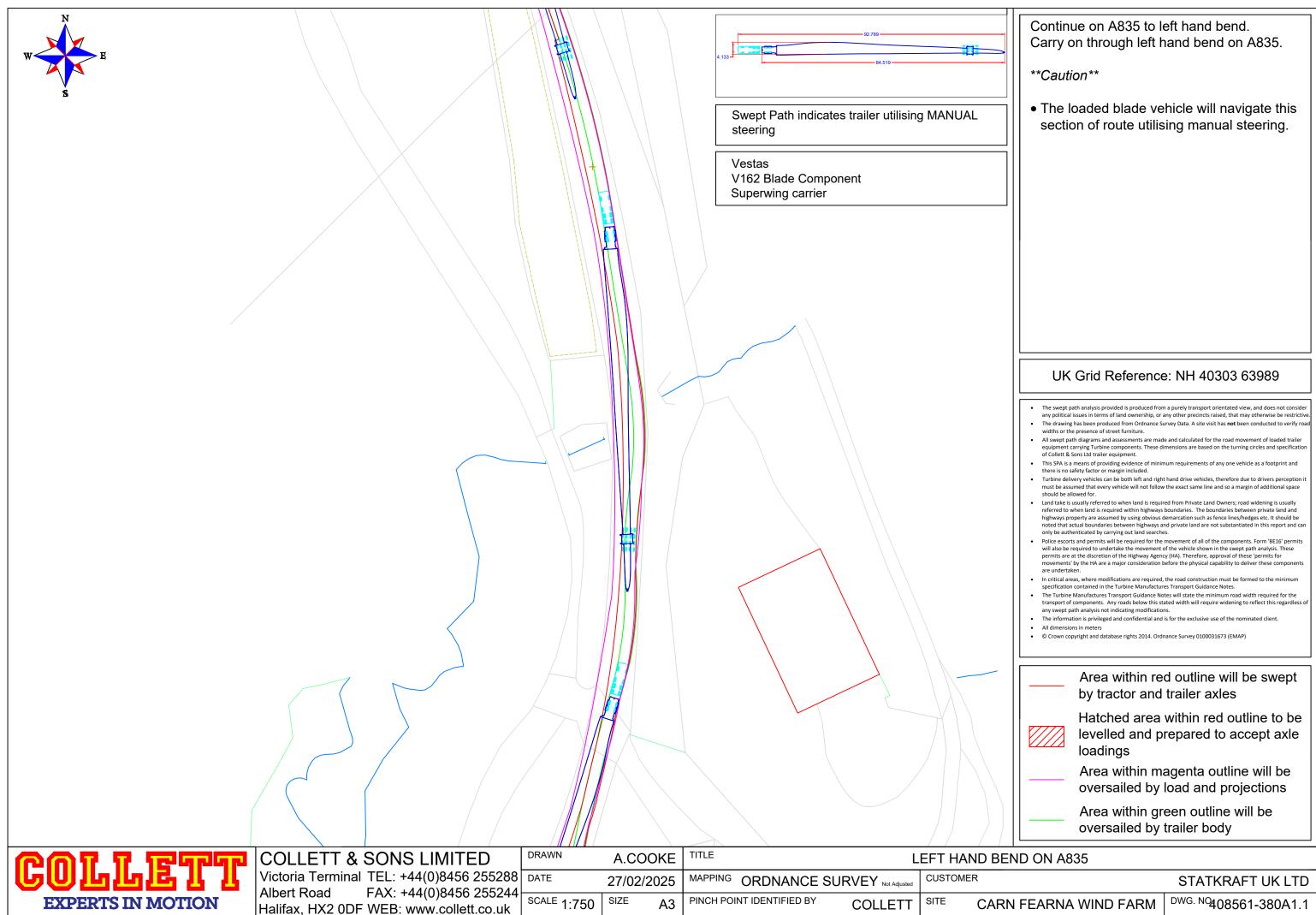
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   The drawing has been produced from Ordnance Survey Data. A site visit has **not** been conducted to verify road
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- any swept path analysis not indicating modifications.The information is privileged 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)

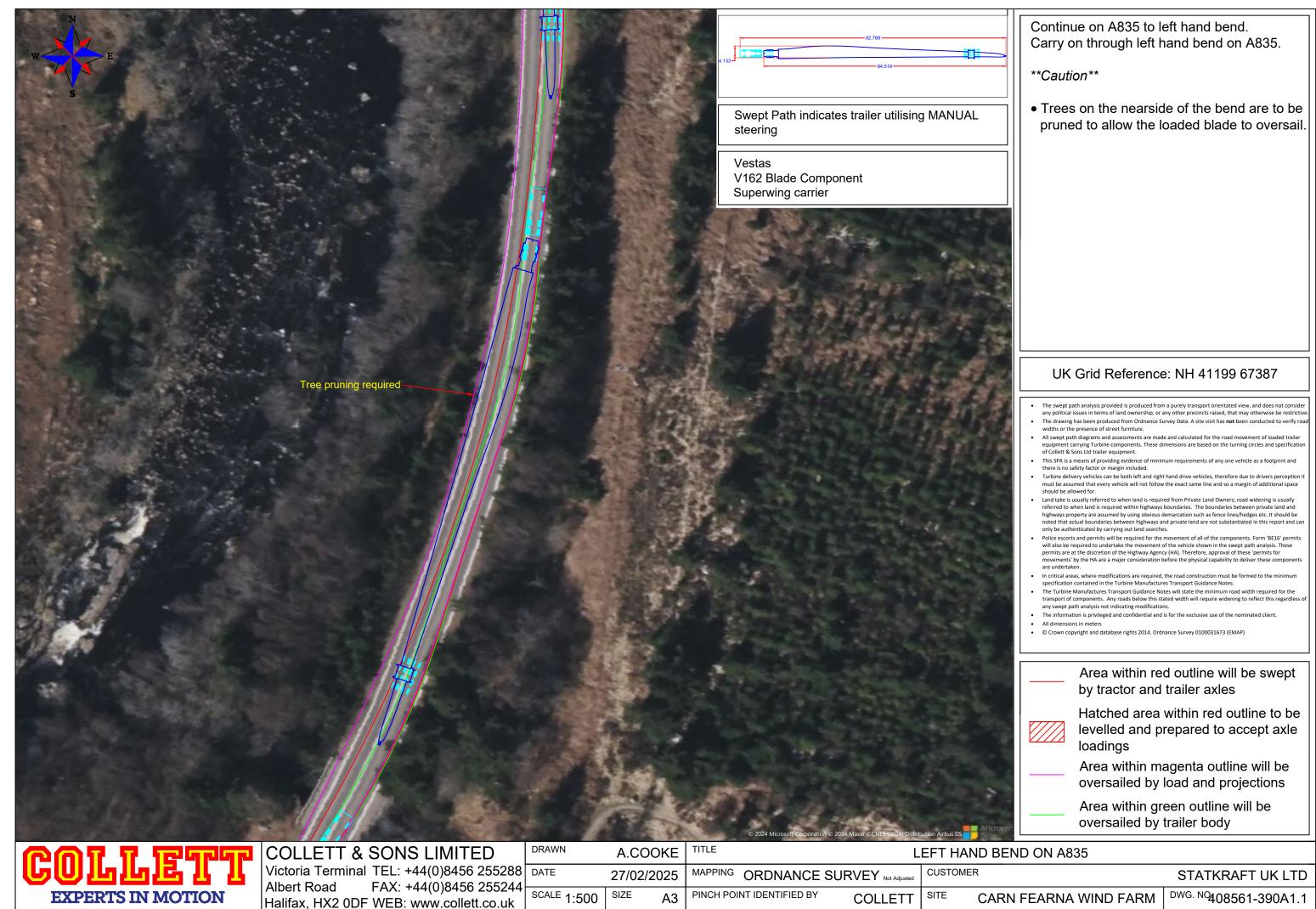


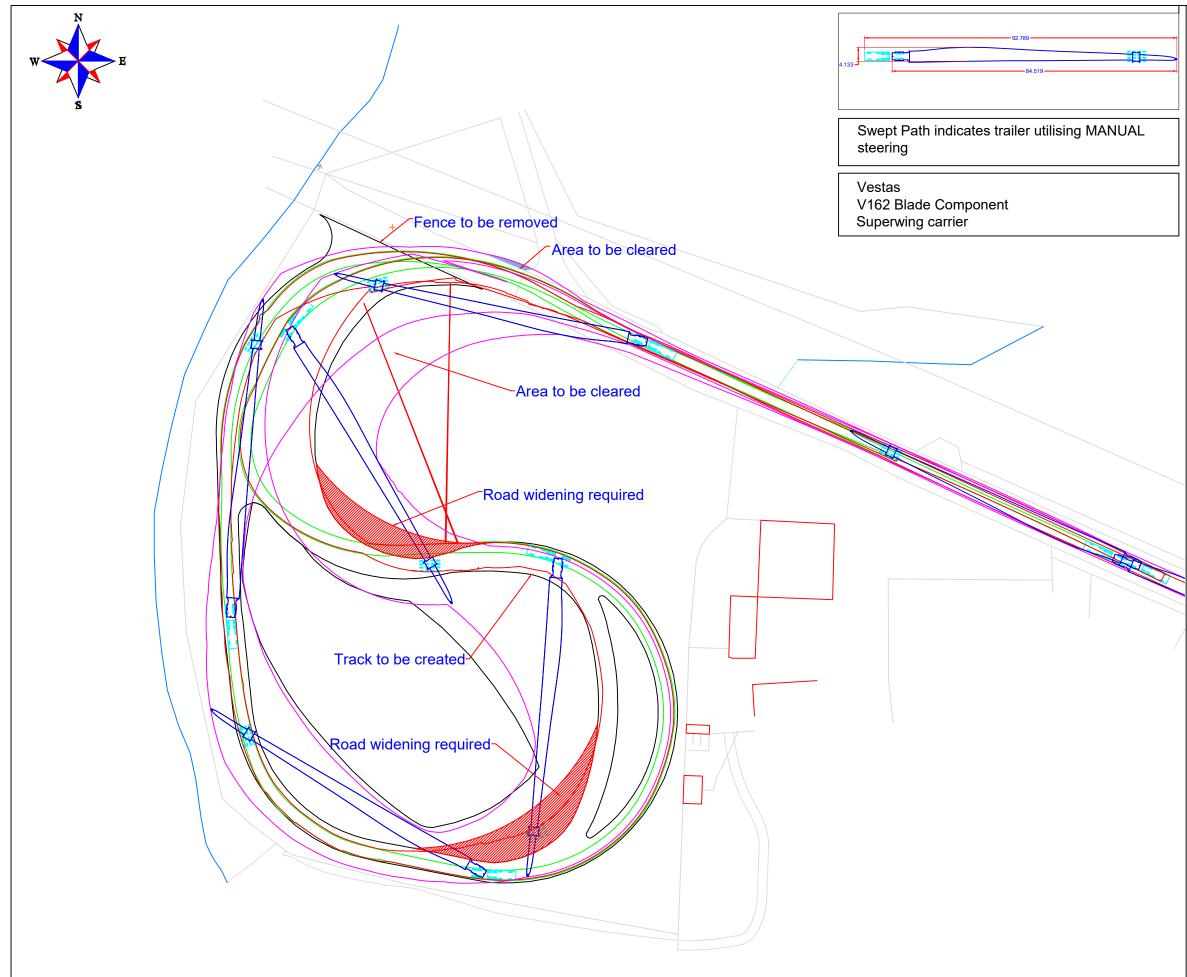




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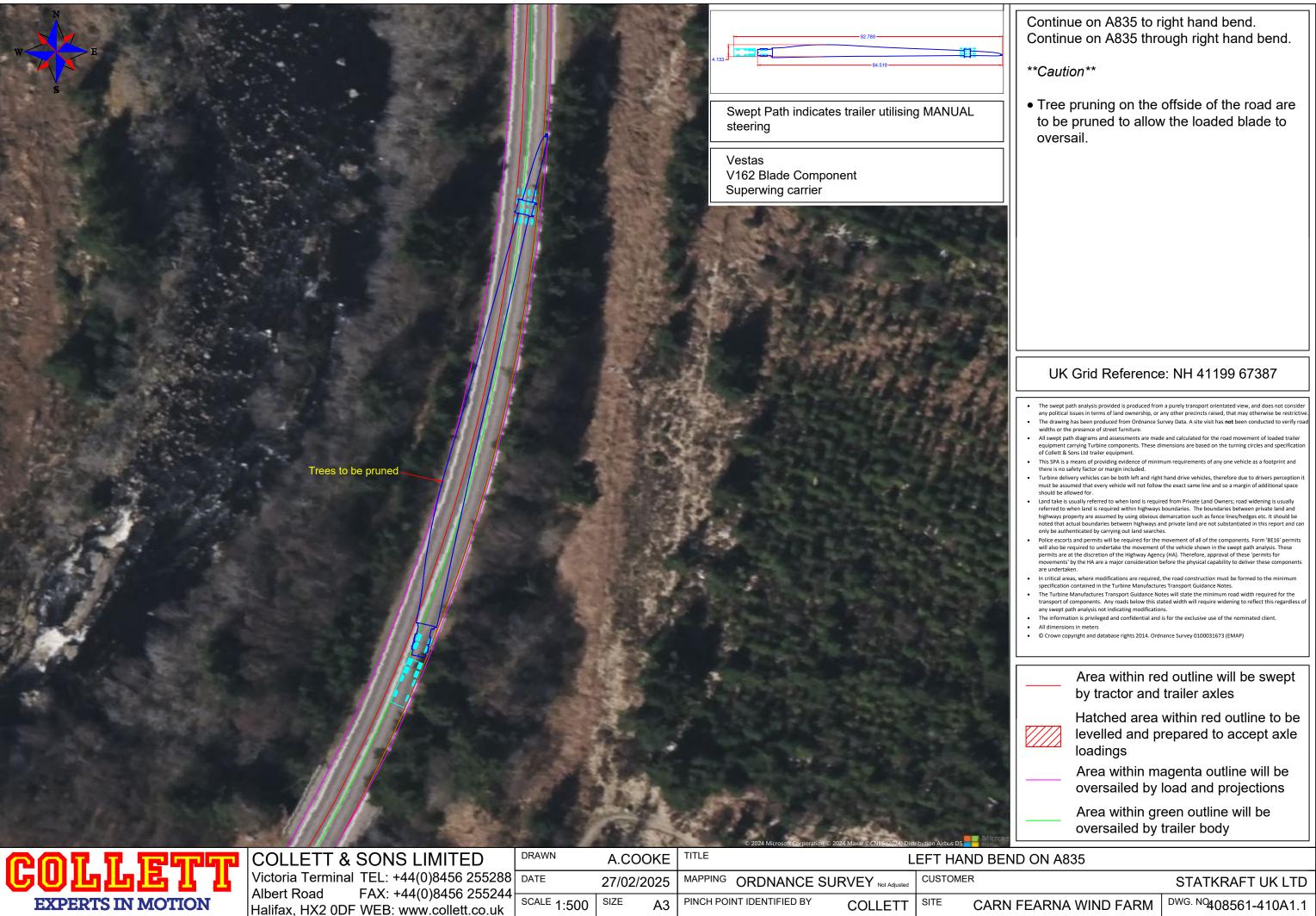


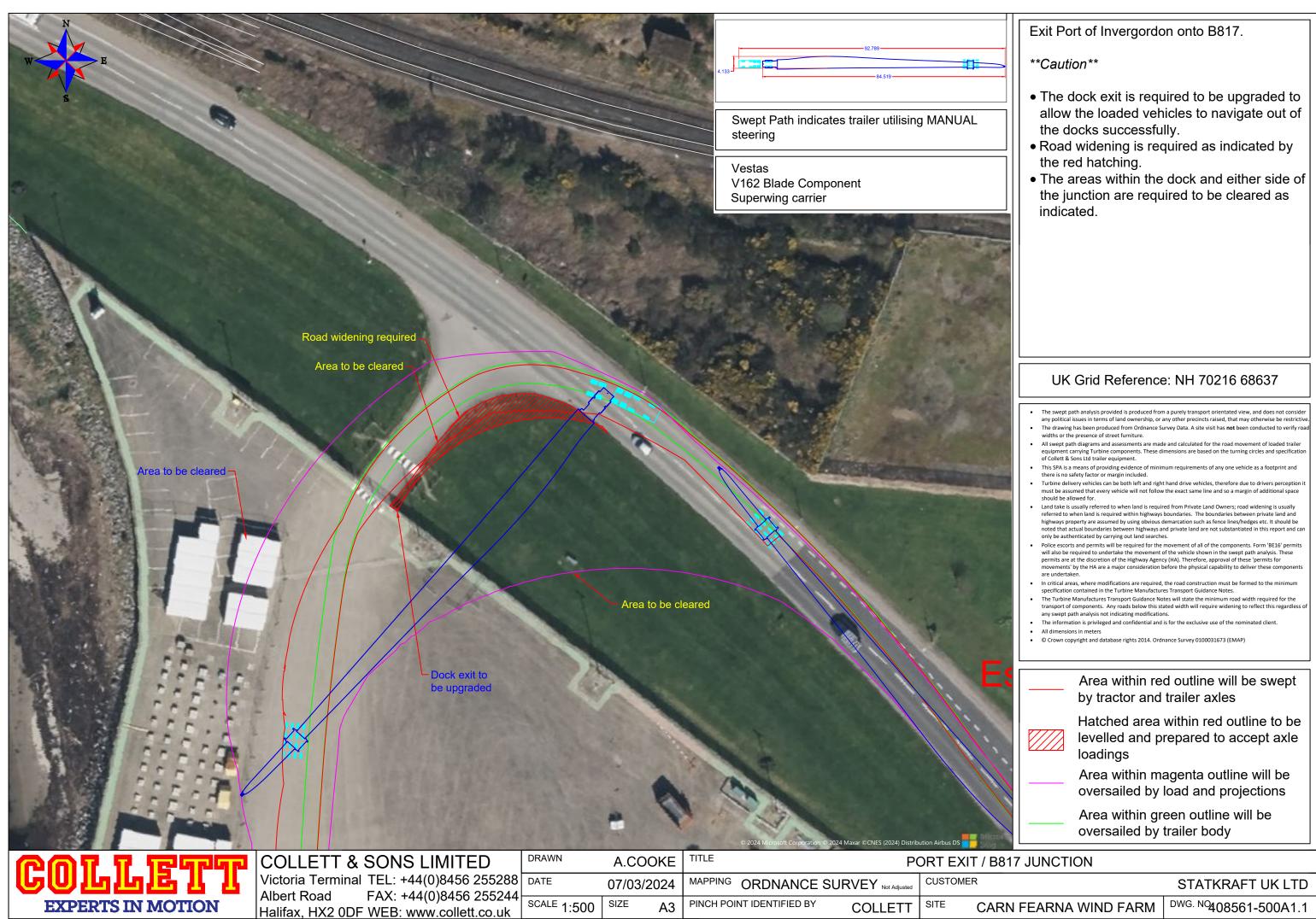
	COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	PROP	OSED TU	IRNING /
Ц	Victoria Terminal TEL: +44(0)8456 255288 Albert Road FAX: +44(0)8456 255244		07/03/2024	MAPPING ORDNANCE S	URVEY Not Adjusted	CUSTOMER	R
	Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	<sup>SCALE</sup> 1:1_1	SIZE A3	PINCH POINT IDENTIFIED BY	COLLETT	SITE	CARN F

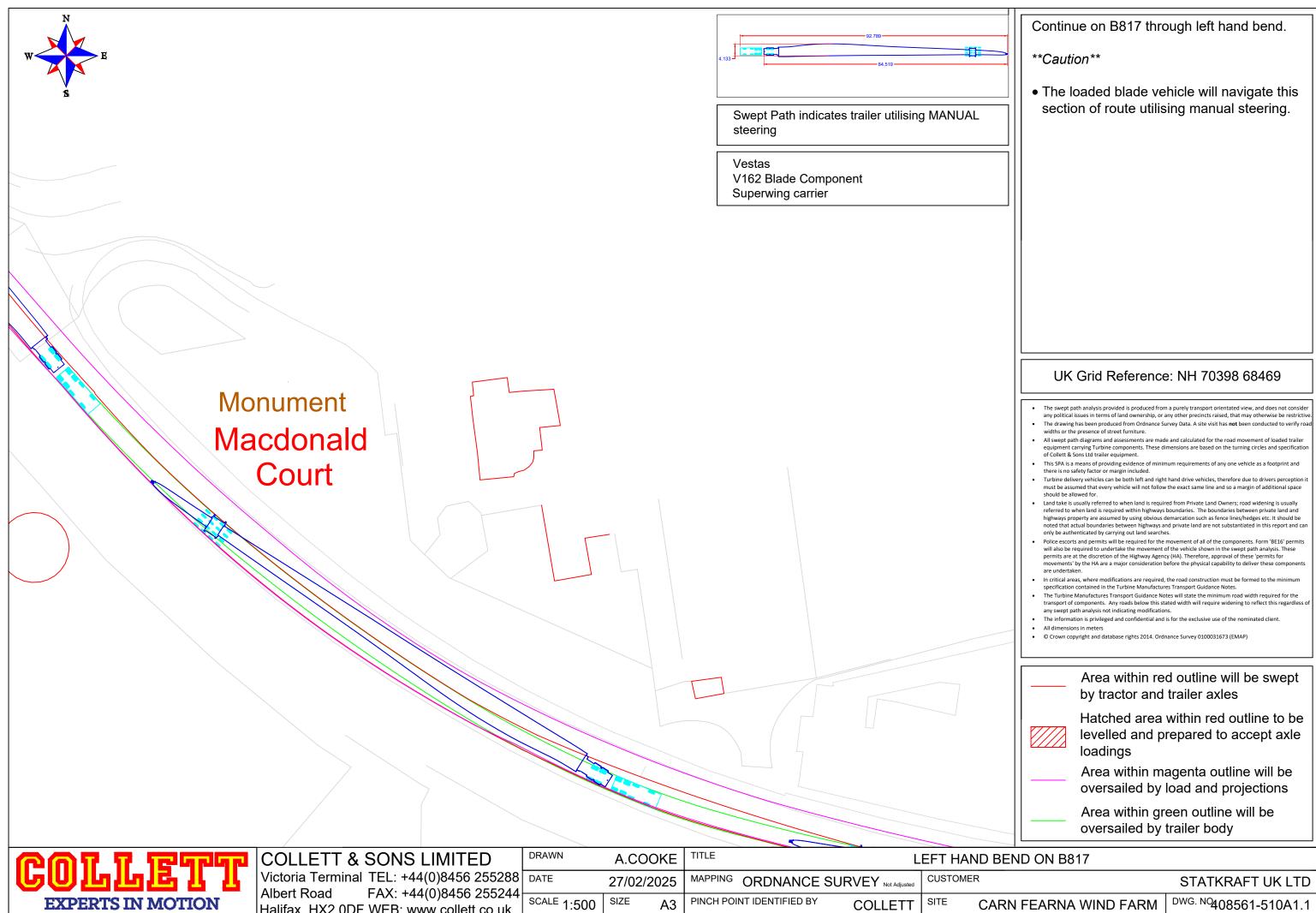
Continue on A835 to proposed turning area. \*\*Caution\*\* • Third party land required for the blade to utilise the proposed turning area. • A suitable turning area is required to be constructed. • Road widening on the provided turning area is required as indicated by the red hatching. • The fence and any boundary features are required to be removed to allow the loaded vehicle access to the turning area. . UK Grid Reference: NH 39891 69417 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 restrictiv The drawing has been produced from Ordnance Survey Data. A site visit has not been conducted to verify room widths or the presence of street furniture. All swept path diagrams and assessments are made and calculated for the road n 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 perceptior must be assumed that every vehicle will not follow the exact same line and so a margin of additi 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 co 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' perm 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 novements' by the HA are a major consideration before the physical capability to deliver these comp are undertaken In critical areas, where modifications are required, the road construction must be formed to the mir 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 regardle any swept path analysis not indicating modifications • The information is privileged and confidential and is for the exclusive use of the nor 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 GAREA ON A835 STATKRAFT UK LTD

N FEARNA WIND FARM

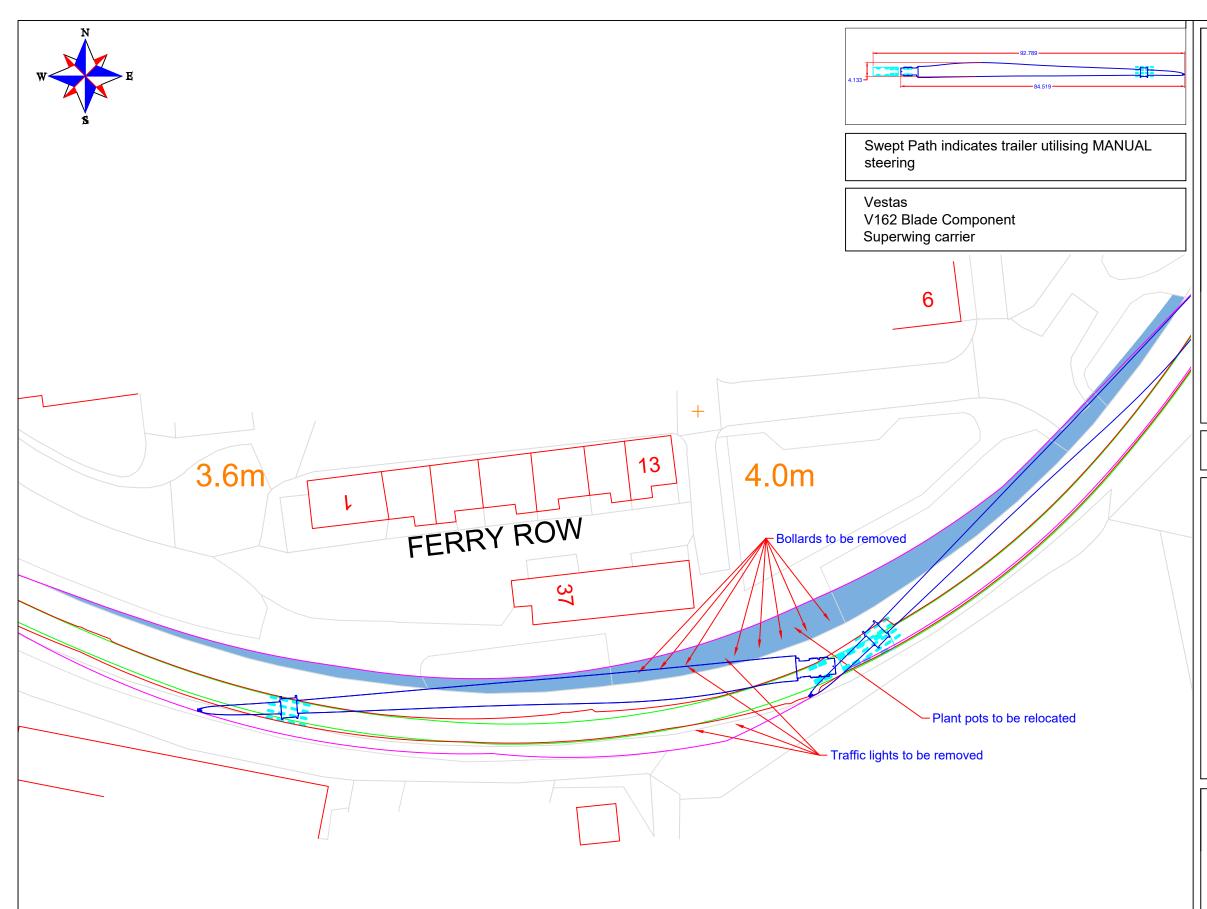
DWG. NO408561-400A1.1







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COLLETT & SONS LIMITED	DRAWN	A.COOKE	TITLE	L	EFT HAND E	BEND
Victoria Terminal TEL: +44(0)8456 255288		27/02/2025	MAPPING	ORDNANCE SURVEY Not Adjusted	CUSTOMER	
Albert Road FAX: +44(0)8456 255244 Halifax, HX2 0DF WEB: www.collett.co.uk	<sup>SCALE</sup> 1:750	SIZE A3	PINCH POI	NT IDENTIFIED BY COLLETT	SITE CA	RN FI

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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- © 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

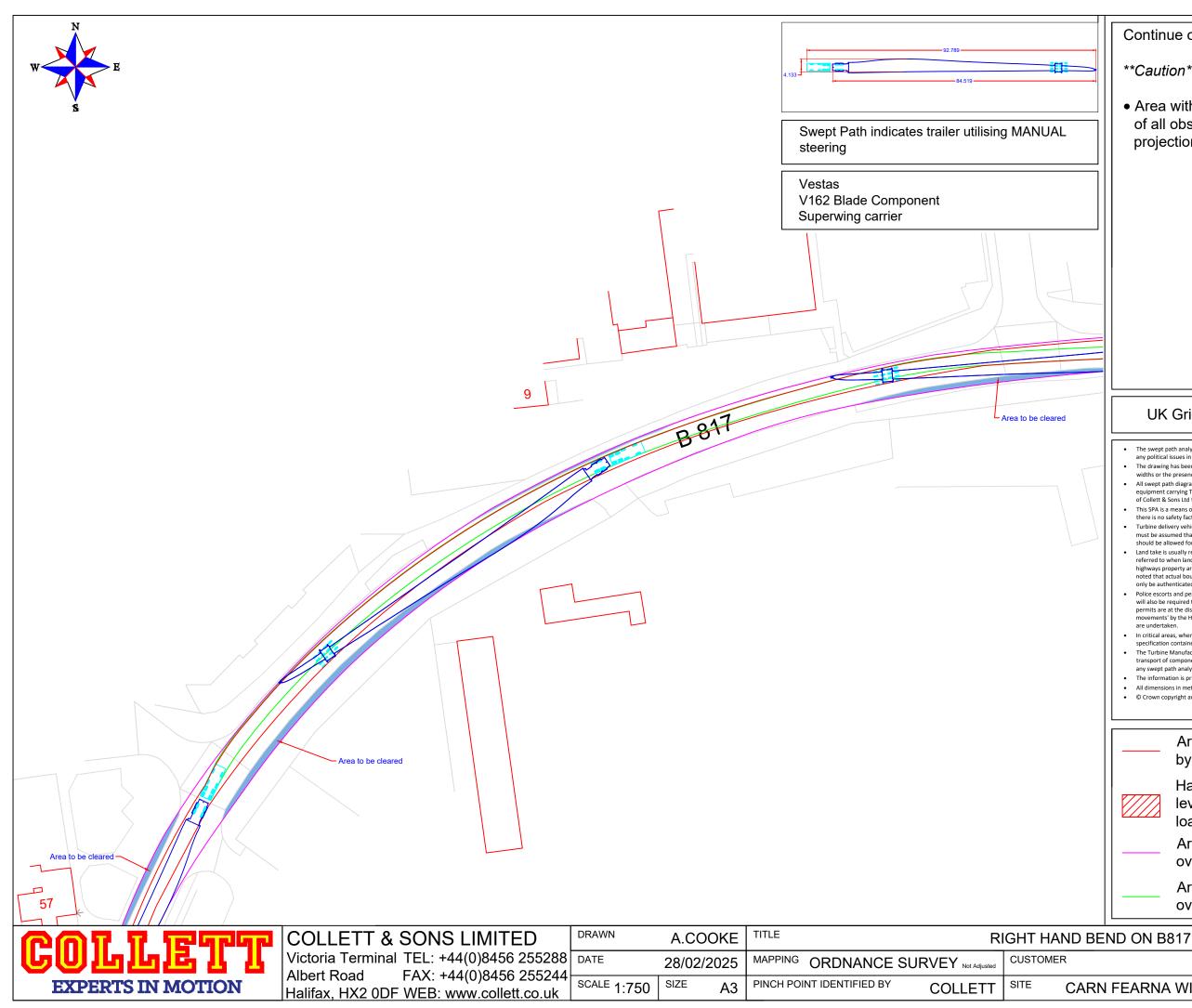
Area within magenta outline will be oversailed by load and projections

Area within green outline will be oversailed by trailer body

ND ON B817

### STATKRAFT UK LTD

N FEARNA WIND FARM DWG. NO408561-520A1.1



Continue on B817 through right hand bend.

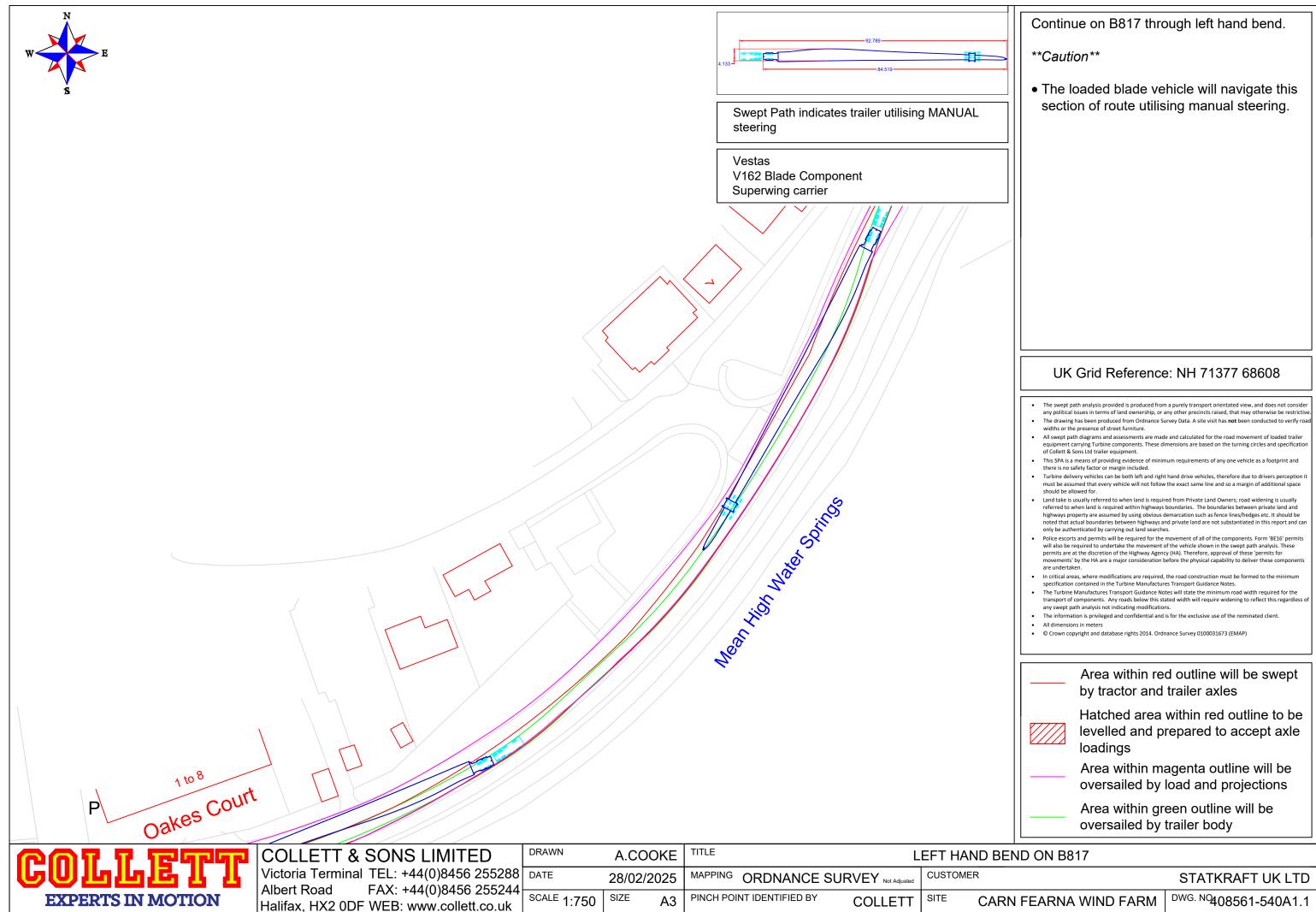
### \*\*Caution\*\*

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

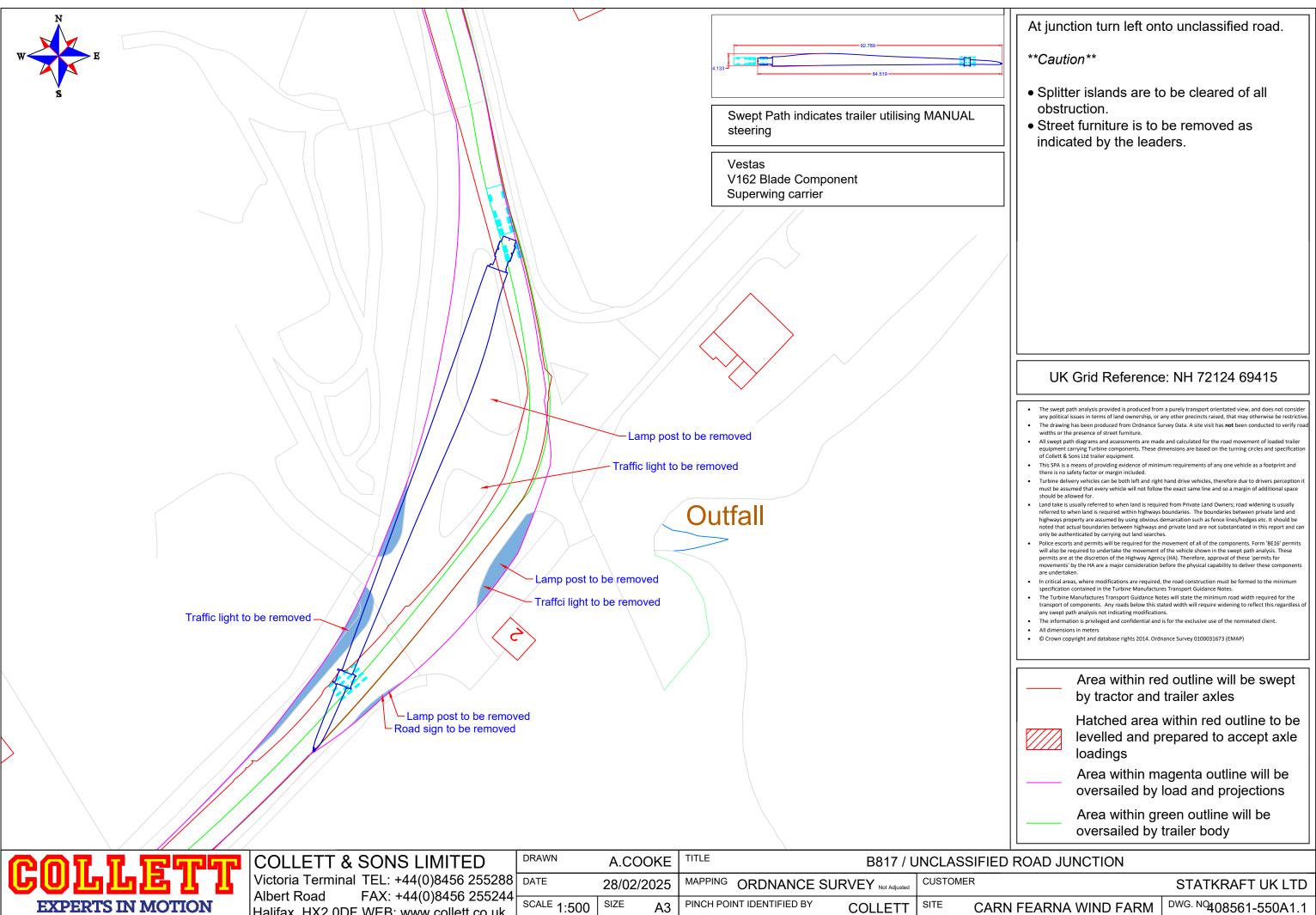
### UK Grid Reference: NH 70931 68498

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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 STATKRAFT UK LTD DWG. NO408561-530A1.1 CARN FEARNA WIND FARM

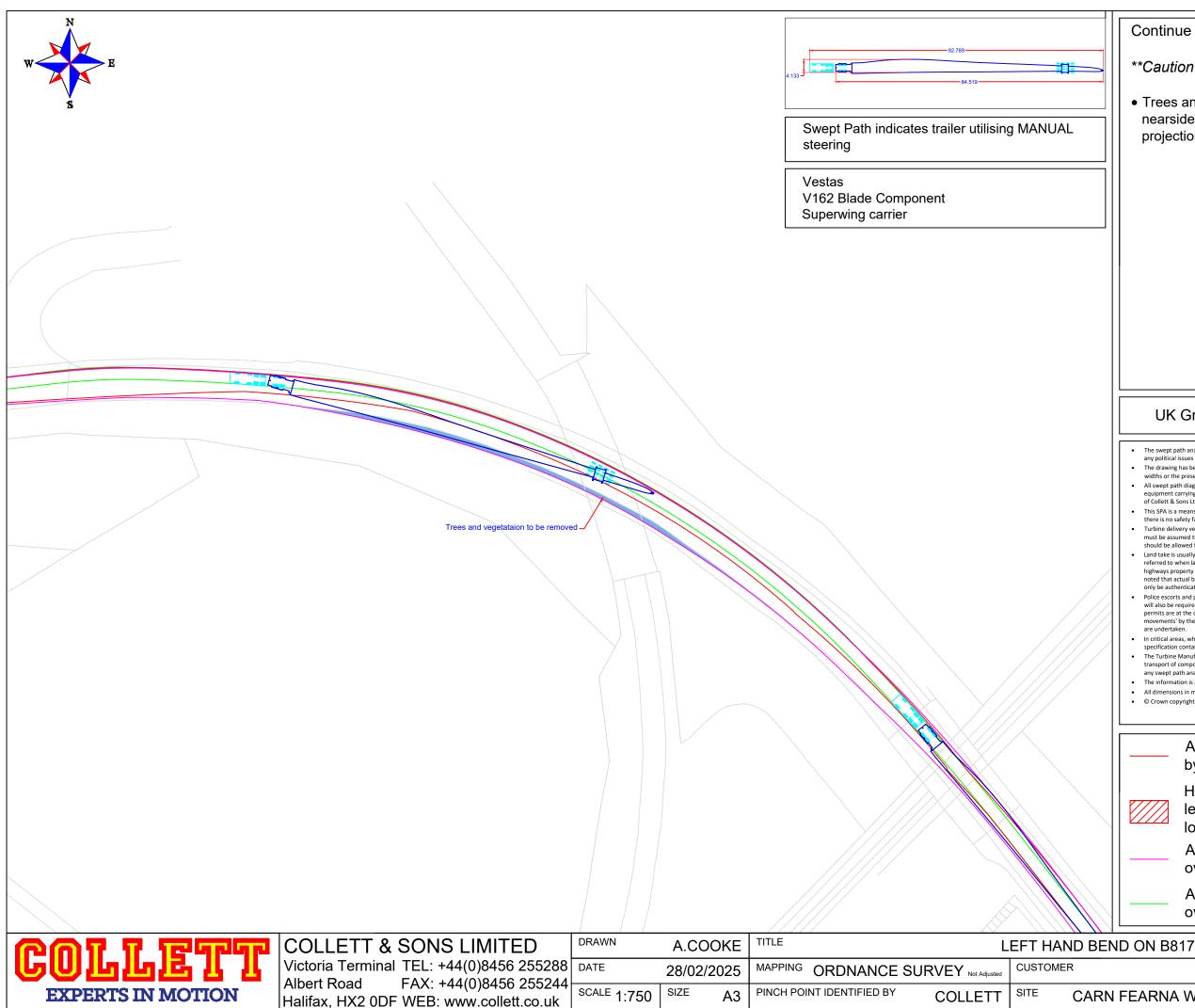


DWG. NO408561-540A1.1



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### DWG. NO408561-550A1.1 CARN FEARNA WIND FARM



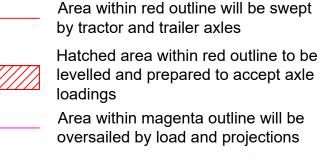
Continue on B817 through left hand bend.

### \*\*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

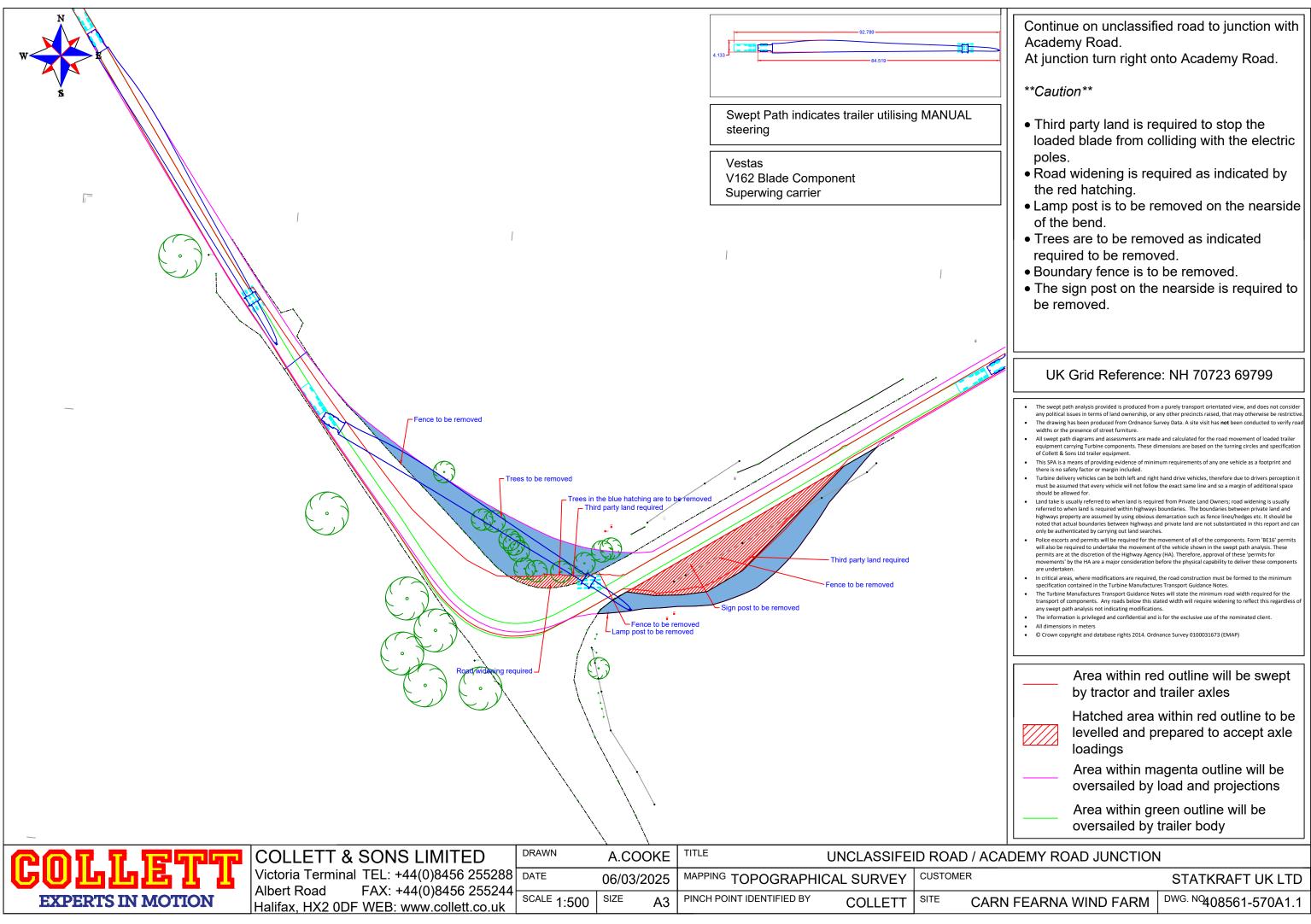
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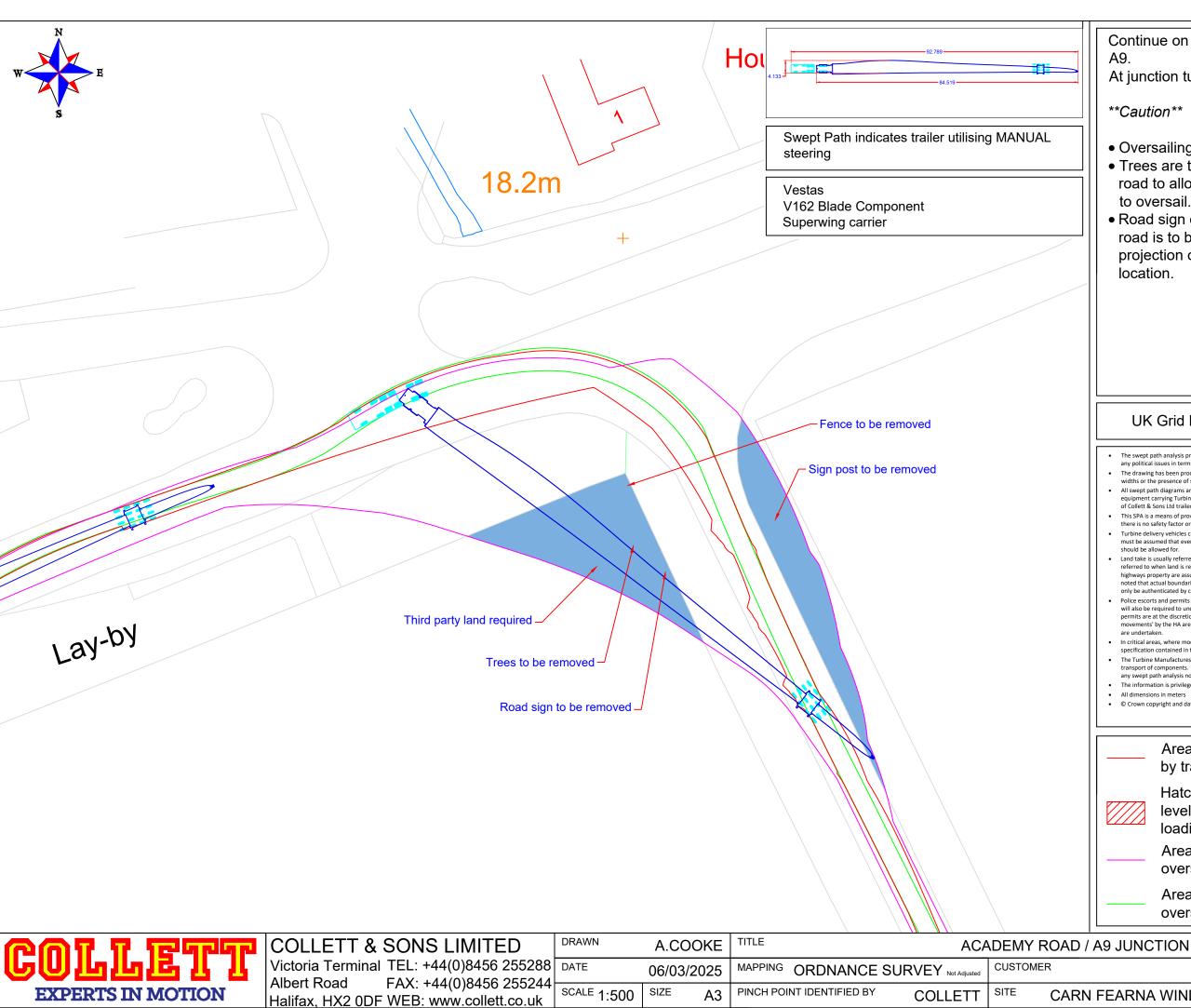


Area within green outline will be oversailed by trailer body

### DWG. NO408561-560A1.1 CARN FEARNA WIND FARM

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Continue on Academy Road to junction with

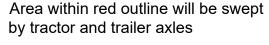
At junction turn right onto A9.

\*\*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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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

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DWG. NO408561-580A1.1 CARN FEARNA WIND FARM