

# Appendix 13A Swept Path Analysis







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# EXPERTS IN MOTION



Swept Path Analysis Report 323500

Stornoway Wind Farm

Lewis Wind Power May 2019



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#### **Document Revisions**

No	Date	Details
323500 – SPA Report Rev1	14/05/2019	Updated to client comments

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### **Company Profile**

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

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

The depots situated in Google and Grangemouth offer strategically located sites suitable to provide central hubs for the distribution of wind turbine components throughout the UK. Each facility is complete with up to 110 tonnes lifting capacity in order to be able to handle all current turbine types. As logistical partners to the Wind Energy Industry, 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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#### **Executive Summary** 1.

- This report comprises of a study of the road routes as detailed here in for the road transport of Vestas 1.1. V150 blade component to entrance of Stornoway Wind farm.
- 1.2. One route has been assessed from Arnish Point to the proposed site entrances.
- 1.3. All swept path analysis has been carried out on Ordnance survey data has not been adjusted due to no site visit being carried out.

### Third party land

1.4. No third party land has been identified by the assessment.

### Road widening

- **1.5.** Road widening is required at a number of locations:
  - 323500-10A1.2 Right hand bend exiting Arnish Point
  - 323500-20A1.2 Right hand bend on unnamed road •
  - 323500-30A1.2 Left hand bend on unnamed road •
  - 323500-40A1.2 Right hand bend on unnamed road •
  - 323500-50A1.2 S- bend on unnamed road •
  - 323500-60A1.2 Left hand bend on unnamed road •
  - 323500-70A1.2 Left hand bend on unnamed road over culvert •
  - 323500-80A1.2 S-bend on unnamed road •
  - 323500-85A1.2 Left hand bend on unnamed road at junction •
  - 323500-90A1.2 - Unnamed road / A859 junction
  - 323500-95A1.1 Site entrance 1 •
  - 323500-97A1.1 Site entrance 2

#### Modifications to street furniture

1.6. Street furniture removal will be required at the junction of unnamed road and A859.

#### Manual Steering

- **1.7.** Manual steering will be required at the following locations:
  - 323500-10A1.2 Right hand bend exiting Arnish Point
  - 323500-20A1.2 Right hand bend on unnamed road •
  - 323500-30A1.2 Left hand bend on unnamed road .
  - 323500-40A1.2 Right hand bend on unnamed road •
  - 323500-50A1.2 S- bend on unnamed road •
  - 323500-60A1.2 Left hand bend on unnamed road •
  - 323500-70A1.2 Left hand bend on unnamed road over culvert •
  - 323500-80A1.2 - S-bend on unnamed road
  - 323500-85A1.2 Left hand bend on unnamed road at junction •
  - 323500-90A1.2 Unnamed road / A859 junction •
  - 323500-95A1.1 Site entrance 1 •
  - 323500-97A1.1 Site entrance 2

#### Vertical Alignment

**1.8.** No vertical alignment issues have been identified by the assessment due to no site visit being carried out.



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### 2. Introduction

- 2.1 Collett & Sons Ltd. were commissioned by Lewis Wind Power to undertake an abnormal loads route access study to assess the transportation of a Vestas V150 blade to the proposed Stornoway Wind Farm site, Isle of Lewis.
- 2.2 The road routes as detailed herein are for the road transport of a Vestas V150 blade.
- **2.3** The site is located to the near Stornoway. The purpose of this report is to detail access to the entrance of the Stornoway Wind Farm from Arnish Point.

### 3. Abnormal Indivisible Load Profiles

**3.1.** The turbine component is 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 diagram is detailed in Appendix 1.

3.2.	323500 - A		
V150 Blade			
	Loaded vehicle dimensions		
Overall vehicle Length	78.10m		
Blade Length	73.94m		
Rigid Length	73.94m		
Width	4.20m		
Height	3.91m		
Gross Vehicle Weight	44.00Te		
Maximum axle weight	8.00Te		



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### 4. Route Assessment Overview

4.0. This section of the report illustrates the routes assessed for the delivery of a Vestas wind turbine blade from the Arnish Point to the start of the proposed access routes to Stornoway Wind Farm. For the purpose of this report, 1 route to the site was surveyed.

### 5. Route Assessment

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3.0
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Continue on unnamed road from Arnish Point to junction with A859.
At junction turn left onto A859 and continue to first site entrance at

At junction turn left onto A859 and continue to first site entrance at Approx. OSi Grid Ref: NB 40599 33100 and second entrance at Approx. OSi Grid Ref: NB 39405 31244.

### 5.0. Map Overview





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### 5.1. Map extract of survey location





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Matrix Port.

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ITEM NUMBER	5.1.1	LOCATION	EXIT AR	NISH POINT ONTO UNNAMED ROAD		
DIRECTION	Continue straight at this lo	ocation				
GRID REFERENCE	NB 42556 30260					
MODIFICATION AN	D DESCRIPTION	PHOTOGRAPH	H OF LOCAT	ION		
manoeuvre will be Verge on offside of	Visual inspection indicates that a contraflow manoeuvre will be required at this location. Verge on offside of unnamed road required to be lowered to allow the trailer to oversail					
				Verge to be lowered		
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A		



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ITEM NUMBER	5.1.2	LOCATION	FIRST RIG	GHT HAND BEND ON UNNAMED ROAD		
DIRECTION	Continue straight at this lo	ocation				
GRID REFERENCE	NB 42350 30343					
MODIFICATION ANI	D DESCRIPTION	PHOTOGRAPH	I OF LOCAT	ION		
Visual inspection in				ION		
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A		



Histrat Poet B AW Nielsen Road G GOOLE G East Vokshee C DN14 6UE F

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ITEM NUMBER	5.1.3	LOCATION	LEFT HAND BEND ON UNNAMED ROAD				
DIRECTION	Continue straight at this lo	ocation					
GRID REFERENCE	NB 42350 30343						
MODIFICATION ANI	D DESCRIPTION	PHOTOGRAP	H OF LOCATION				
Visual inspection in							
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE N/A				



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ITEM NUMBER	5.1.4	LOCATION	RIGHT HA	ND BEND ON UNNAMED ROAD			
DIRECTION	Continue straight at this lo	ocation					
GRID REFERENCE	NB 42036 30787						
MODIFICATION ANI	D DESCRIPTION	PHOTOGRAPH OF LOCATION					
Visual inspection in				Road widening required			
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A			



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ITEM NUMBER	5.1.5	LOCATION	LEFT HAI	ND BEND ON UNNAMED ROAD		
DIRECTION	Continue straight at this lo	ocation				
GRID REFERENCE	NB 42000 30980					
MODIFICATION ANI		PHOTOGRAPH	I OF LOCAT	ION		
Visual inspection in widening will be red						
		Road w	videning req	luired		
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A		



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ITEM NUME	RER	5.1.6	LOCATION	Ι ΕΕΤ ΗΔ	ND BEND ON UNNAMED ROAD			
DIRECTION		Continue straight at this lo	ocation					
GRID REFEREN	NCE	NB 42028 30873						
MODIFICATIO	N AN	D DESCRIPTION	PHOTOGRAPH	PHOTOGRAPH OF LOCATION				
Visual inspect	ion in	dicates that road quired at this location.		ridening rec				
FURTHER INV	ESTIG	ATION RECOMMENDED	NO	TYPE	N/A			



Mistral Point Ball AW Neiteen Road Cen GOOLE GRU East Yorkshire Cen DN14 6UE FR3

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RNOWAY WIND FARM   <sup>DWG</sup>	323500-60A
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ITEM NUMBER	5.1.7	LOCATION	LEFT HA	ND BEND ON UNNAMED ROAD OVER CULVERT				
DIRECTION	Continue straight at this lo	ocation						
GRID REFERENCE	NB 42028 30873							
MODIFICATION ANI	DESCRIPTION	PHOTOGRAPH	PHOTOGRAPH OF LOCATION					
Visual inspection in			idening red					
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A				



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ITEM NUMBER	5.1.8	LOCATION	S-BEI	ND ON UNNAMED ROAD
DIRECTION	Continue straight at this l	ocation		
GRID REFERENCE	NB 41605 31633			
MODIFICATION AND	D DESCRIPTION	PHOTOGRAPH OF LOCATION		
Visual inspection in				Road widening required
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE	N/A



Matrai Poet. 1 Avi Nielaan Road 6 GOOLE 6 East Vokshee 9 DN14 6UE 9

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ITEM NUMBER	5.1.9	LOCATION	LEFT HAND BEND ON UNNAMED ROAD AT JUNCTION
DIRECTION	Continue straight at this lo	ocation	
GRID REFERENCE	NB 41374 32003		
MODIFICATION AN	D DESCRIPTION	PHOTOGRAPH	H OF LOCATION
Visual inspection in			dening required
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE N/A



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ITEM NUMBER	5.1.10	LOCATION	UNNAMED ROAD / A859 JUNCTION	
DIRECTION	Continue straight at this lo	ocation		
GRID REFERENCE	NB 41374 32003			
MODIFICATION ANI	D DESCRIPTION	PHOTOGRAPH OF LOCATION		
Visual inspection indicates that road widening will be required at this location. Road signs on nearside of unnamed road required to be removed to allow the rear projection to oversail.				
Road signs to	be removed	Road w	idening required	
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE N/A	



Histral Point Balls AW Nelsen Road Cent GOOLE GRA East Yorkshire Cent DND4 6UE FK3

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### 5.2. Map extract of survey location





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ITEM NUMBER	5.2.1	LOCATION	SITE ENTRANCE 1		
DIRECTION	Turn right at this junction				
GRID REFERENCE	NB 40599 33100				
MODIFICATION ANI	MODIFICATION AND DESCRIPTION		PHOTOGRAPH OF LOCATION		
Visual inspection indicates that road widening will be required to provide a suitable site entrance.					
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE N/A		



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ITEM NUMBER	5.2.2	LOCATION	SITE ENTRANCE 2
DIRECTION	Turn right at this junction		
GRID REFERENCE	NB 39405 31244		
MODIFICATION ANI	D DESCRIPTION	PHOTOGRAP	H OF LOCATION
Visual inspection indicates that road widening will be required to provide a suitable site entrance.			
FURTHER INVESTIG	ATION RECOMMENDED	NO	TYPE N/A



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#### 5. Recommendations

- 5.1. A 'Test Drive' with a Blade Trailer from the commencement point of the selected route to the site entrance is recommended. This is in order to verify the facts contained in this report and proof test the requirements for road alterations horizontally and vertically. The test run should be completed with an empty trailer, so that in an emergency or at the points where land take has been recommended, but not progressed, or in the case of vertical issues there is insufficient ground clearance, the trailer can be 'closed' until it is past the hazard. The test run should be attended by Turbine manufacturers, project managers, Police, Highways & County council representatives and other interested parties with responsibility for road alterations.
- 5.2. These recommendations are made 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. It is recommended to have adequate warning signs implemented to warn other road users at critical points along the route.
- 5.3. All hedges, shrubs, bushes, trees and overhanging branches along the nominated routes must be trimmed to allow a minimum envelope on the road of 5.0m wide by 5.0m high.
- 5.4. All street furniture, signage etc. along the nominated route must be removed to allow a minimum envelope on the road of 5.0m by 5.0m. Other specific street furniture has been nominated in this report to facilitate 'over-sailed' and 'swept' areas.

### 6. Important Notes

- 6.1. 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.
- **6.2.** The information contained in this report is privileged and confidential and is for the exclusive use of the client nominated herein.
- **6.3.** A Police escort or pilot car will be required for nacelle, towers and blade component trailers in order to assist with traffic control for the entire route surveyed.
- **6.4.** Permits will be required for the movement of all of the components. These permits are at the discretion of the Highways Agency (H.A). Therefore, approval of these permits by the H.A are a major consideration before any movements can be undertaken.
- 6.5. It is recommended to have adequate warning signs implemented to warn other road users at critical points.
- **6.6.** All hedges, shrubs, bushes, trees and overhanging branches along the nominated routes must be trimmed to allow a minimum envelope on the road as specified in manufacturer's specification.
- **6.7.** All street furniture, signage etc. along the nominated route must be removed to allow a minimum envelope on the road as specified in manufacturer's specification. Other specific street furniture has been nominated in this report to facilitate over-sailed and swept areas.
- **6.8.** 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.
- **6.9.** 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.
- **6.10.** The maximum gross vehicle weight anticipated for a 50m diameter rotor turbine could be the tower section at over 65Te. Therefore, a full Route Access Survey (RAS) is recommended, in order to determine the



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acceptability of gross vehicle weights and axle loading issues, for bridges, culverts and structures for the entire route, the results of which have not been applied for in terms of the depth and level of reporting required for this report.

- **6.11.** 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.
- **6.12.** 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.
- **6.13.** All inspections and assessments are made for the road movement of loaded trailer equipment carrying Turbine components. These dimensions are based on the turning circles and specification of Collett & Sons trailer equipment.
- **6.14.** 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.
- **6.15.** 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 turbines to site using this route before a test drive has been undertaken, and any accommodation/remedial works undertaken which are to Collett & Sons satisfaction.



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## **APPENDIX 1 – LOADED COMPONENT DRAWINGS**



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