

Neshion Energy Park

13/04/2026

Reference number GB01T24I10/ALA

ABNORMAL LOADS ASSESSMENT



SYSTRA

NESHION ENERGY PARK

ABNORMAL LOADS ASSESSMENT

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1. INTRODUCTION

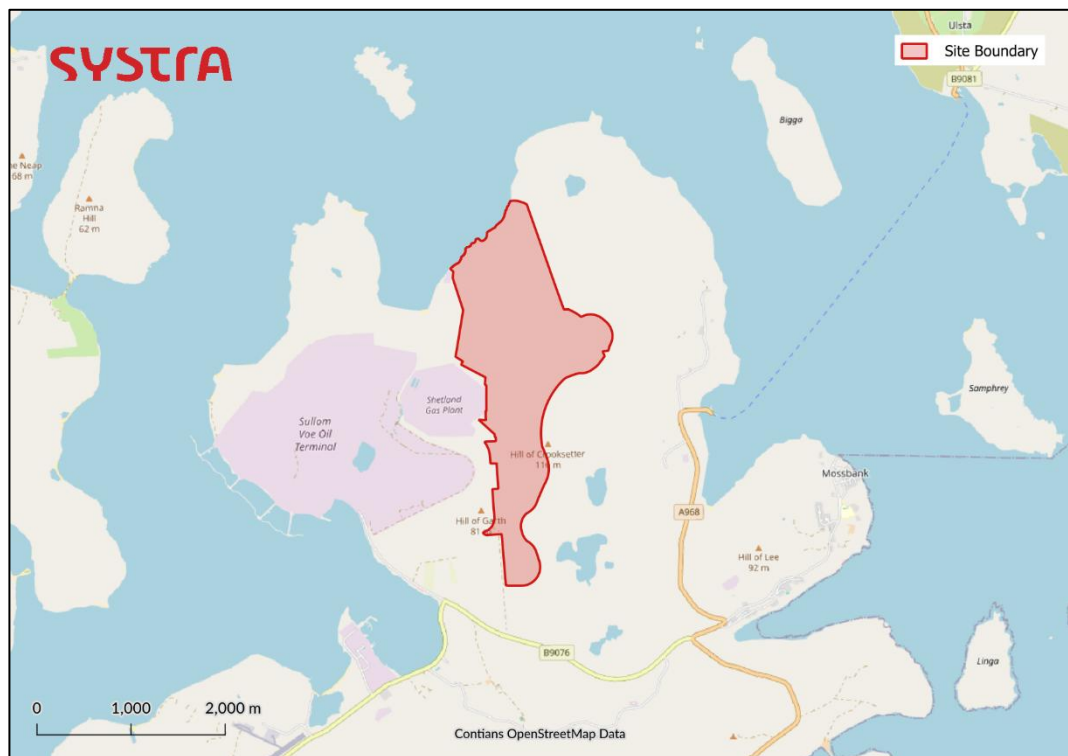
General

1.1

1.1.1

SYSTRA Ltd (SYSTRA) has been commissioned by Ramboll UK Limited, to undertake an assessment of an identified abnormal load route to the proposed Neshion Energy Park ('the Proposed Development'). The Site is located within the Shetland Islands Council (SIC). The approximate Site location is indicated by **Figure 1: Site Location** below.

Figure 1. Site Location



1.1.2

The Site is located adjacent to the Sullom Voe Oil Terminal and Shetland Gas Plant.

1.1.3

It is anticipated that the turbine components would be landed at either the Port of Sullom Voe or at Lerwick Harbour. Sullom Voe has not been used to import large-scale onshore wind turbine components before, although it was considered as a potential 'fall back' option by the Viking Wind Farm. In 2023, Lerwick Harbour was utilised for the landing and staging of turbine components for the Viking Wind Farm.

1.1.4

The purpose of this report is to examine the potential route from both Sullom Voe and Lerwick to the Site access which would be used by abnormal loads carrying the turbine components to Site.

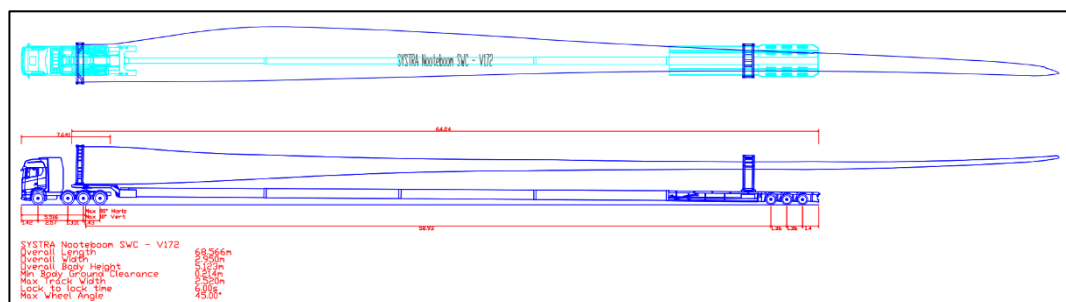
1.2 Turbine Transport Requirements

- 1.2.1 The candidate turbine for the Proposed Development is anticipated to be the Vestas V172 machine. When transported the blade component of the V172 is typically around 84.35m in length.

Standard Blade Transporter

- 1.2.2 For the purposes of assessment, it has been assumed that the Turbine Delivery Vehicle (TDV) would compose of a tractor unit and a Nooteboom Super Wing Carrier Trailer.
- 1.2.3 The Super Wing Trailer incorporates pendle axles which allow for a secondary rear wheel steering angle of up to 60 degrees. These axles can be manually controlled to give greater manoeuvrability. However, SYSTRA understands that utilising the manual rear steering introduces an additional degree of complexity and delay. Therefore, it has only been utilised in this assessment where beneficial, i.e. allowing street furniture or third-party land to be avoided or enabling overrun areas to be reduced in size or their requirement removed altogether.
- 1.2.4 The Super Wing trailer can be extended to 64.3m in length. For this assessment is has been assumed that the trailer would be extended to its full length. This assumption is based on the loading configuration of other wind turbine blade components and specifications from Vestas. In total the TDV is ~68.6m in length. The turbine blade would overhang the end of the trailer by ~20.6m for a total length of 89.2m.
- 1.2.5 A drawing of the TDV is provided in **Appendix A: TDV Drawing and Swept Path Assessment** as drawing *GB01T24I10/2001/VEH001* and at **Figure 2: Turbine Delivery Vehicle** below.

Figure 2. Turbine Delivery Vehicle



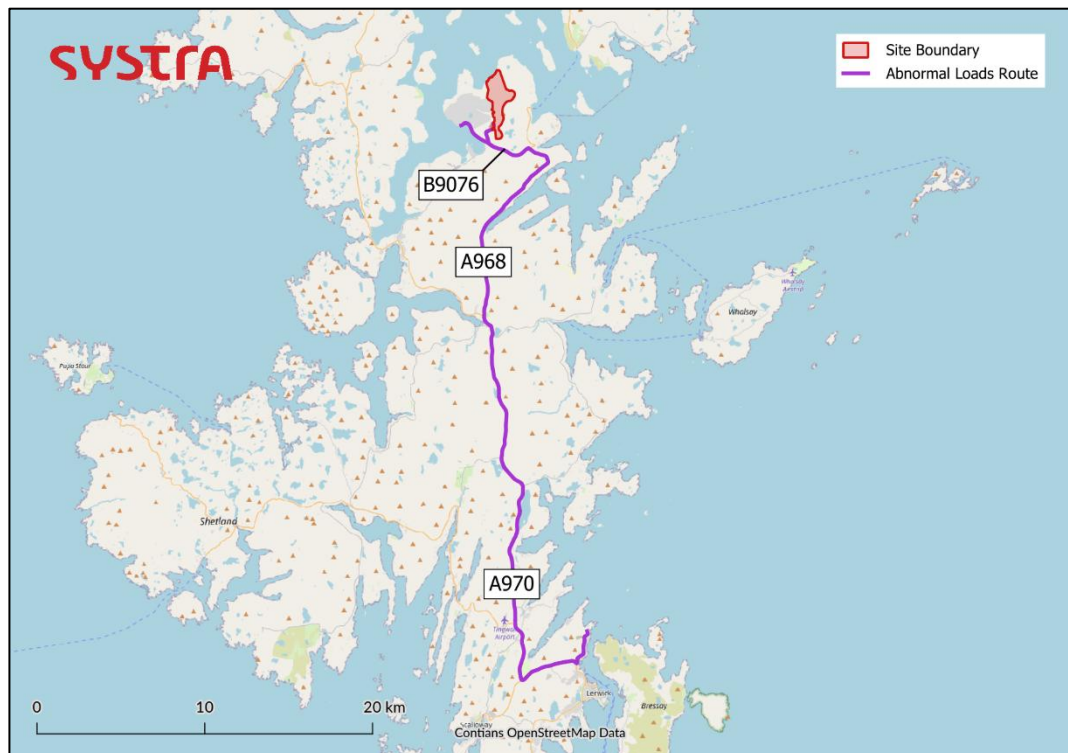
- 1.2.6 At this stage in the design process, the haulier of the wind turbine components is not yet known, nor the exact specifics of the vehicles that they will use. However, from experience of previous developments, and from the details of the components to be moved, it is possible to estimate (with some degree of accuracy) the specifics of the design vehicle that will be used to allow a detailed and accurate route assessment to be undertaken.
- 1.2.7 SYSTRA has used the Autodesk (CAD) extension package AutoTrack to undertake swept path analysis (SPA) for the identified Pinch Points (PP) on the delivery route. The trailer units associated with the design vehicles for the transportation of the blades are extendable so on delivery of the abnormal load, the trailers can be reduced in length. In

these circumstances, the AutoTracking and route assessment has only been undertaken for the delivery route to the Site.

1.3 Assessed Abnormal Loads Route

- 1.3.1 The Port of Entry (PoE) for the turbine components is anticipated to either Sullom Voe or Lerwick. The assessed routes to Site are indicated by **Figure 3: Assessed Abnormal Loads Route - Blade** below.

Figure 3. Assessed Abnormal Loads Route - Blade



1.3.2 The identified abnormal load route sections for the turbine components are set out in **Table 1: Blade Component - Route Sections** below.

Table 1. Blade Component - Route Sections

SECTION	CUMULATIVE DISTANCE (MILES)	
	Lerwick	Sullom Voe
Leave the Lerwick staging area onto the Unclassified Road	0.0	-
Turn right onto Gremista Road (A970)	1.4	-
Turn right onto Isles Road (A968)	18.0	-
Turn left onto the B9076	25.9	-
Leave Sullom Voe staging area onto the Unclassified Road	-	0.0
Turn into Shetland Gas Plant access road	27.5	1.2
Turn right into Site Access track	28.4	2.1

2. SWEPT PATH ASSESSMENT

2.1 Pinch Points

2.1.1 A total of 23 Pinch Points have been identified along the delivery route from Lerwick. Four Pinch Points have been identified on the route from Sullom Voe, although the final three (Pinch Points 21 to 23) are common with the route from Lerwick.

2.1.2 The location of the Pinch Points that have been identified and assessed are indicated by **Figures 4: Pinch Points at Lerwick** to **Figure 7: Pinch Points at Sullom Voe** below.

Figure 4. Pinch Points at Lerwick

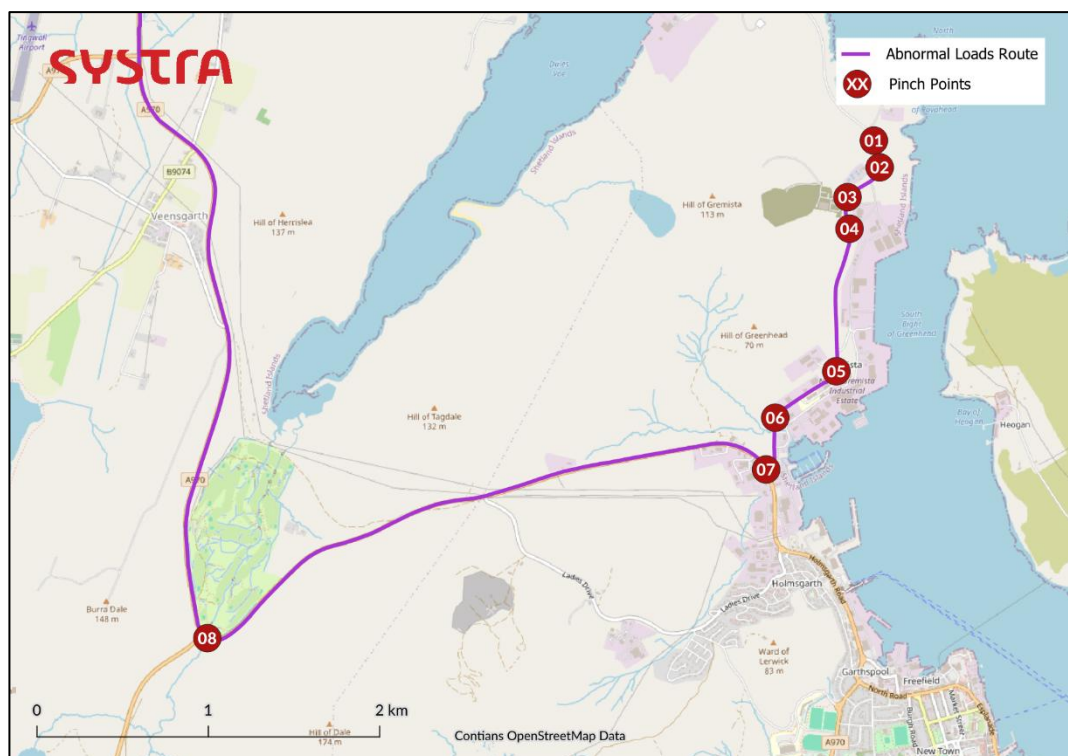


Figure 5. Pinch Points on B9075

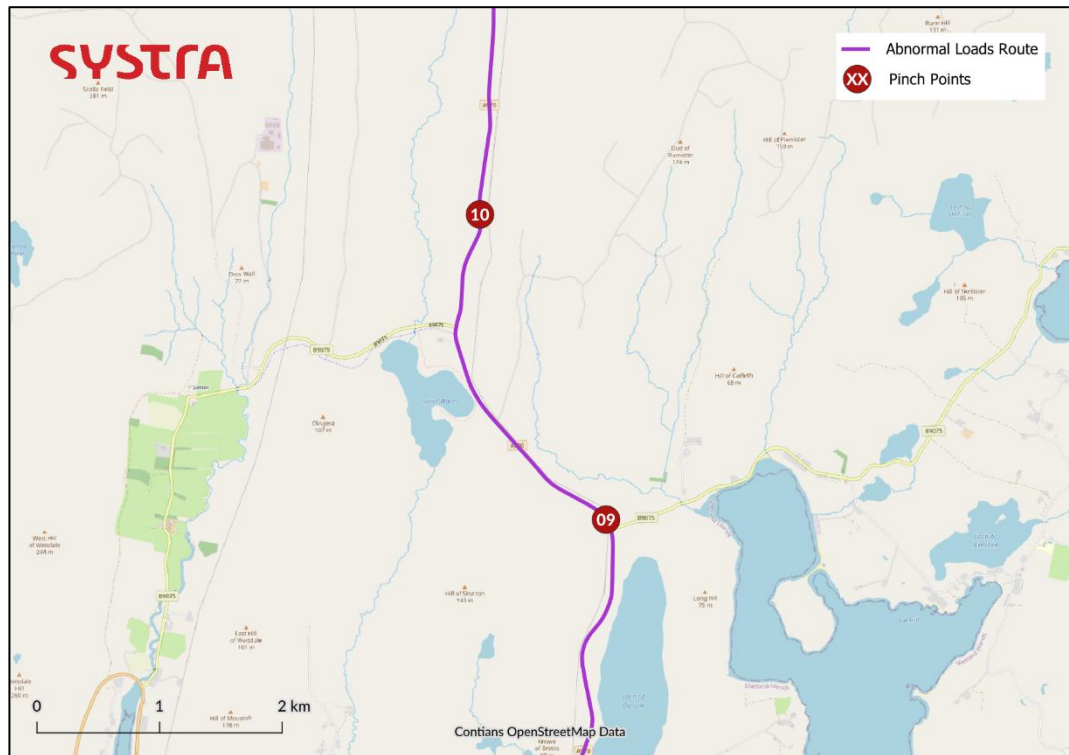


Figure 6. Pinch Points at Voe

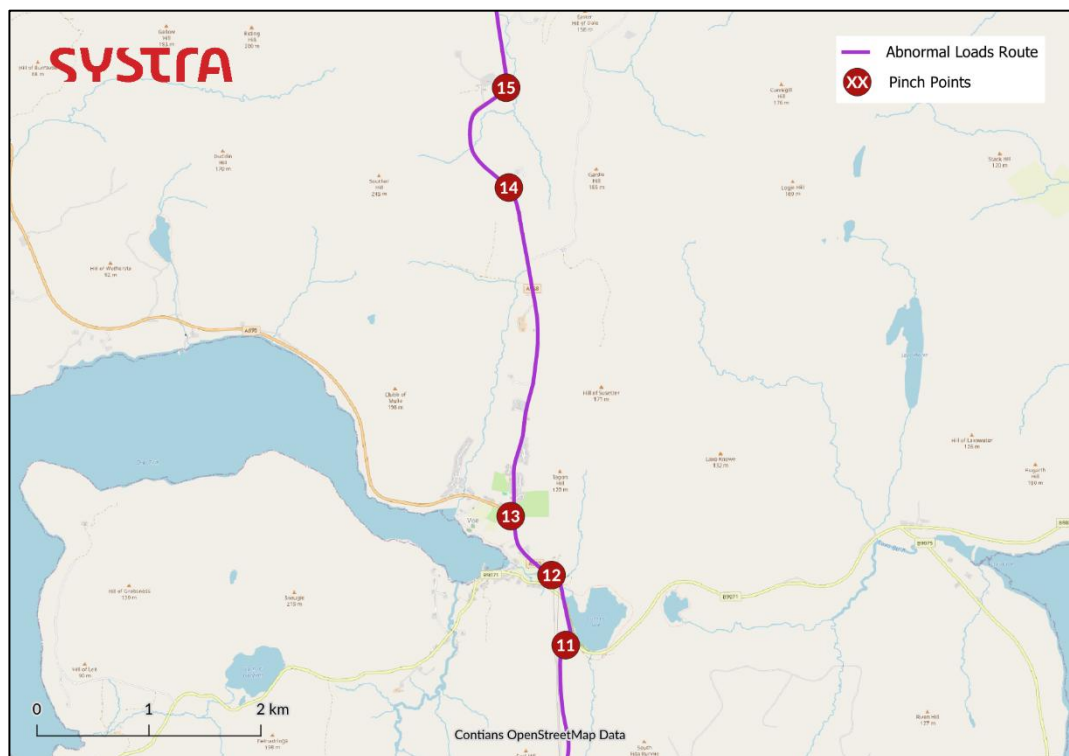


Figure 7. Pinch Points at Sullom Voe



- 2.1.3 The swept path plans are contained within **Appendix A: TDV Drawing and Swept Path Assessment**. The plans indicate areas of overrun and over-sail, as well as highlighting potential clashes with street furniture and requirements for third-party land.
- 2.1.4 **Table 2: Pinch Point Summary – Blade Delivery Vehicle** summarises the findings at each location for the transportation of the blade component.

Table 2. Pinch Point Summary – Blade Delivery Vehicle

PP	LOCATION	LAT	LONG	STREET FURNITURE REMOVAL	TEMPORARY PAVING / GRADING WORKS	3RD PARTY LAND REQUIREMENTS
1	Left-hand turn onto Unclassified Road	60.186180	-1.154871	Section of fencing	Junction to be widened / hardstanding to be laid	None anticipated – over-sail of land within staging area
2	Right-hand bend in Unclassified Road at Waste Water Treatment Plant	60.184771	-1.154294	1no. lighting column - Section of vehicle restraint system	None anticipated	Maybe – over-sail of land likely part of staging area / under port control. Land checks recommended.
3	Left-hand bend in Unclassified Road at Waste Management Facility	60.183230	-1.157717	1no. road sign	None anticipated	None anticipated
4	Bend in Unclassified Road south of Waste Management Facility	60.181573	-1.157550	None anticipated	None anticipated	None anticipated
5	Right-hand bend in Unclassified Road at North Gremista Industrial Estate	60.174104	-1.159129	1no. road sign 2no. lighting columns	None anticipated	Yes – over-sail of third-party land. Land checks required.
6	Left-hand bend in Unclassified Road at North Gremista Industrial Estate	60.171712	-1.165612	3no. lighting columns	None anticipated	None anticipated
7	Right-hand turn onto A970	60.169001	-1.166650	6no. lighting columns 8no. bollards 3no. road signs	None anticipated	Yes – over-sail of third-party land on inside and outside of turn. Land checks required.
8	Right-hand bend in A970 at Shetland Golf Club	60.160511	-1.225603	None anticipated	None anticipated	Yes – over-sail of potential third party land on inside and outside of turn. Land checks required.
9	Left-hand bend in A970 at B9075 junction	60.265325	-1.223058	None anticipated	None anticipated	None anticipated
10	Left-hand bend in A970 north of B9075 junction	60.287771	-1.241127	None anticipated	None anticipated	None anticipated
11	“S”-bend in A970 at B9071 junction	60.344758	-1.253418	None anticipated	None anticipated	None anticipated
12	Left-hand bend in A970 at Voe	60.350387	-1.255579	1no. road sign	None anticipated	None anticipated
13	Right-hand turn onto A968	60.355152	-1.262091	2no. road signs 1no. lighting column 1no. utility column and line	Temporary hardstanding overrun area required	Yes – overrun and over-sail of potential third-party land. Land checks required.
14	Left-hand bend in A968 at farm access	60.381497	-1.261797	None anticipated	None anticipated	None anticipated
15	Left-hand bend in A968 at farm	60.389507	-1.262046	None anticipated	Maybe – carriageway widths to be checked on site post-consent	Yes – over-sail on outside of bend. Land checks required.
16	“S”-bend in A968 at Burn of Scarvar-ayre	60.413660	-1.239277	None anticipated	None anticipated	Yes – over-sail of potential third-party land in several location. Land checks required.

PP	LOCATION	LAT	LONG	STREET FURNITURE REMOVAL	TEMPORARY PAVING / GRADING WORKS	3RD PARTY LAND REQUIREMENTS
17	"S"-bend in A968	60.424777	-1.217046	None anticipated	None anticipated	Yes – over-sail of potential third-party land on outside of bend. Land checks required.
18	Left-hand bend in A968 at access track	60.437016	-1.190721	None anticipated	None anticipated	Yes – over-sail on outside of bend. Land checks required.
19	Left-hand bend in A968 at access track	60.440391	-1.192447	None anticipated	None anticipated	Yes – over-sail on outside of bend. Land checks required.
20	Left-hand turn onto B9076	60.444932	-1.210958	3no. bollards 1no. road sign 2no. utilities cabinets 6.5m section of vehicle restraint system	None anticipated – overrun of existing hardstanding	Yes – over-sail of potential third-party land on inside and outside of bend. Land checks required.
21-E	Right-hand turn into Gas Plant Access Road	60.447610	-1.254436	5no. bollards 2no. road signs	None anticipated	Yes – over-sail of potential third-party land on inside and outside of bend. Land checks required.
22	Right-hand bend in Gas Plant Access Road	60.453676	-1.257402	Exact street furniture to be assessed on site post-consent	None anticipated	Yes – over-sail on outside of bend. Land checks required.
23	Left-hand bend in Gas Plant Access Road	60.455931	-1.249330	Exact street furniture to be assessed on site post-consent	None anticipated	None anticipated
24	Right-hand turn onto Oil Terminal Access Road	60.458828	-1.280401	None anticipated	None anticipated	None anticipated
21-W	Left-hand turn into Gas Plant Access Road	60.447610	-1.254436	6no. bollards 1no. road sign - Section of vehicle restraint system and fencing	Significant and potentially complex hardstanding overrun area required	Yes – third-party land on inside and outside of bend. Land checks required.

3. ASSESSMENT OUTCOMES AND CONCLUSIONS

3.1 Horizontal Feasibility

- 3.1.1 The abnormal load assessment has identified that the routes from both Lerwick and Sullom Voe to the Site are technically feasible in terms of horizontal geometry, which is anticipated to be dependent upon third-party land agreements at around 12 locations.

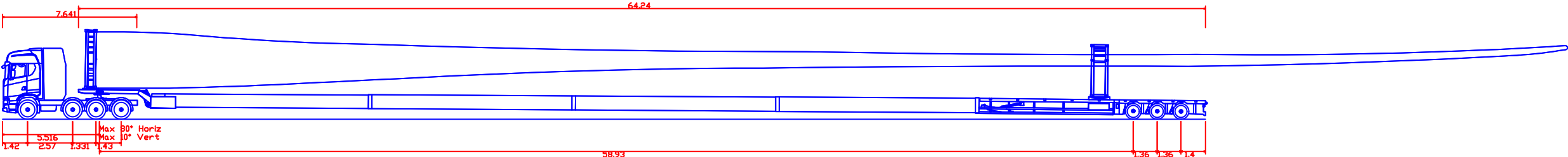
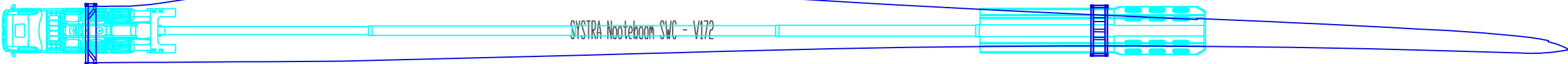
3.2 Summary

- 3.2.1 In the first instance, it is recommended that third-party land enquiries are made at the identified locations. It is also recommended that further engagement is undertaken with the Lerwick Port Authority and the SIC.

- 3.2.2 Additionally, the following points should also be considered:

- If the necessary mitigation measures (as outlined in **Table 2: Pinch Point Summary – Blade Delivery Vehicle**) are achievable then the route can be navigated by vehicles carrying wind turbine components to the Proposed Development subject to confirmation of structural checks;
- Police escort or Pilot car will be required to accompany abnormal loads in order to assist with traffic control and the control of oncoming traffic;
- It is recommended to have adequate warning signs implemented to warn other road users at critical points along the route;
- All hedges, shrubs, bushes, trees and overhanging branches along the nominated routes must be trimmed from within carriageway verges;
- Specific street furniture has been nominated in this report for removal to facilitate over-sailed and 'swept' areas;
- The heights of overhead lines (OHL) to be checked on site post-consent for the full delivery route. Where OHLs coincide with Pinch Points their approximate alignment has been marked on drawings contained within **Appendix A: TDV Drawing and Swept Path Assessment**;
- Full carriageway widths must be available along the entirety of the route. Measures to remove parked vehicles must therefore be in place;
- It is recommended that contact is made with SIC's structures team to identify any structures of concern along the delivery routes that would necessitate structural survey work;
- Measures to assist the vehicle negotiating the kerbed changes in level at footways, roundabouts, pedestrian refuges etc. will be required; and
- Steel road plates may be required at locations where the vehicle overruns utility boxes or footways.

Appendix A – TDV Drawing and Swept Path Assessment



SYSTRA Nootboom SWC - V172

Overall Length	68.566m
Overall Width	1.950m
Overall Body Height	1.123m
Min Body Ground Clearance	0.214m
Max Track Width	5.520m
Lock to lock time	6.00s
Max Wheel Angle	45.00°

- Notes:
- Do not scale from drawing.
 - All dimensions in metres unless otherwise stated.
 - Please note that marked service locations are indicative only and should be confirmed by topographical survey.



- Key:
- Blade Transporter Vehicle
 - Blade Outline

Rev.	Date	Revision details	Drawn	Checked	Approved

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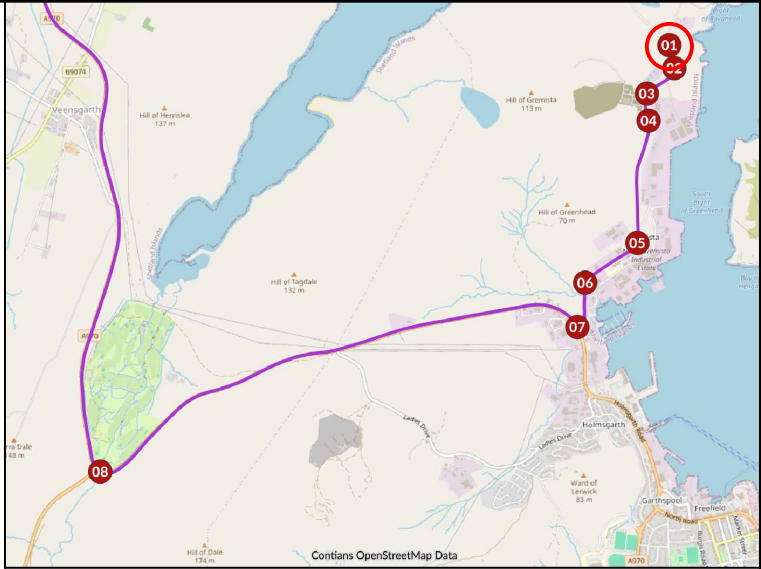
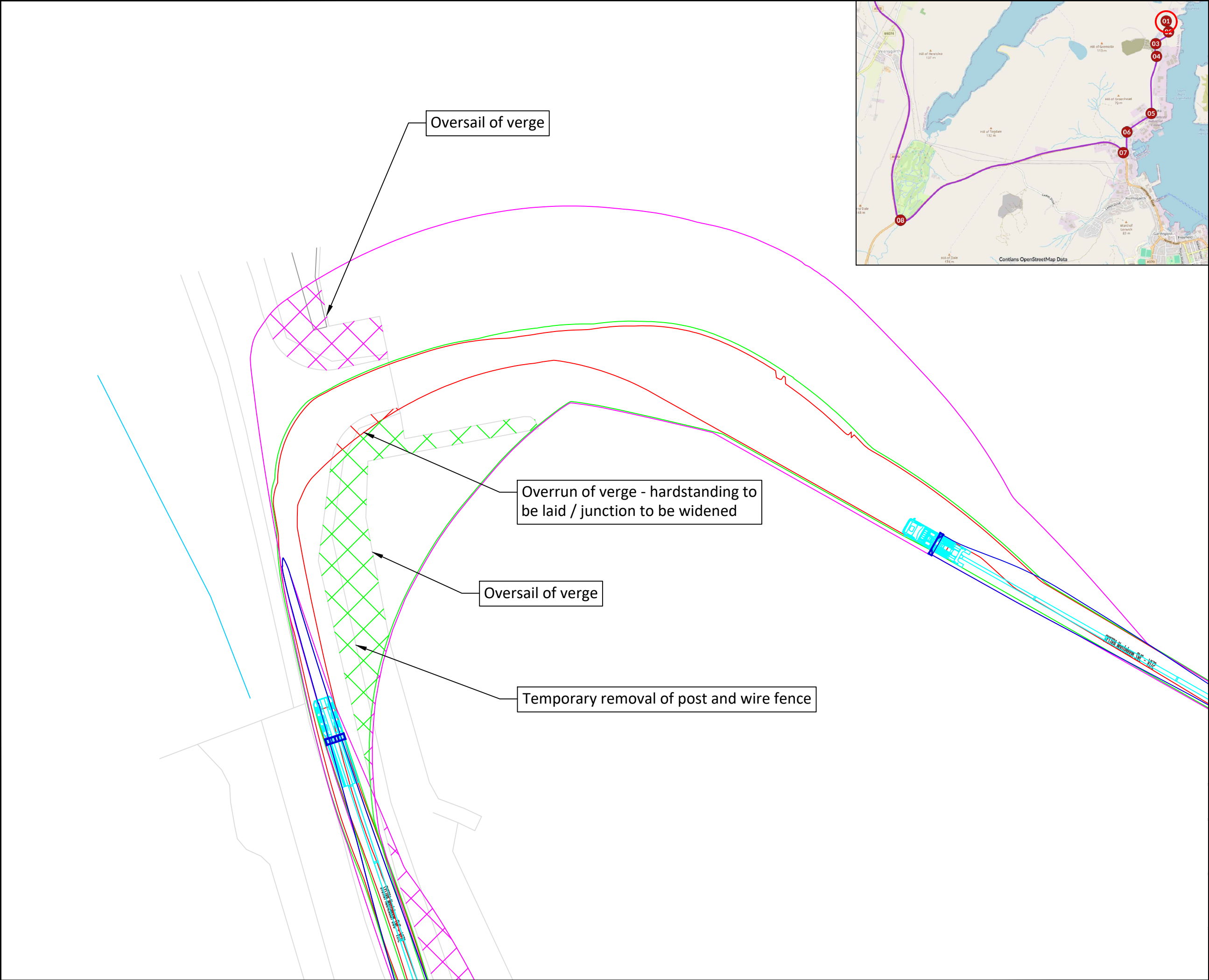
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nootboom Super Wing Carrier
Indicative Loading Configuration

Drawn	TF	Checked	ADV	Approved	ADV
Original dwg. size	A3	Date	13/04/2026	Scale	NTS
Drawing Status	Information	Drawing Number	GB01T24110/2001/VEH001	Rev.	-



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- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

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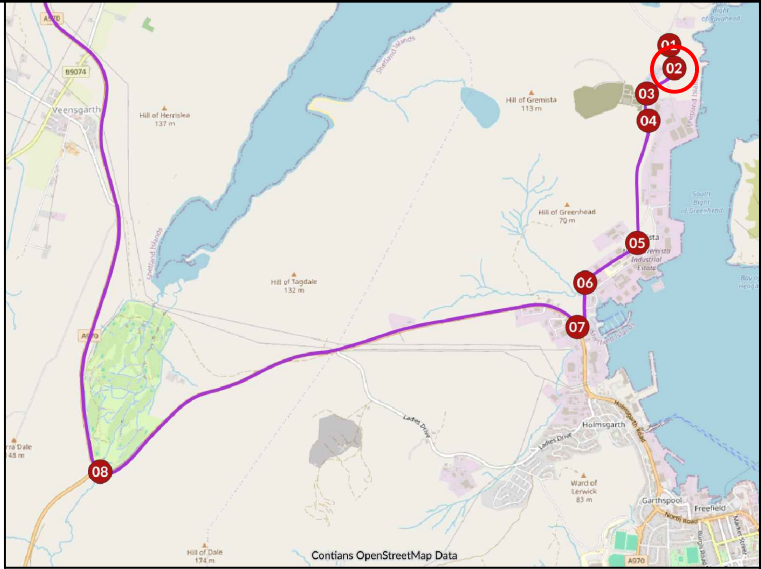
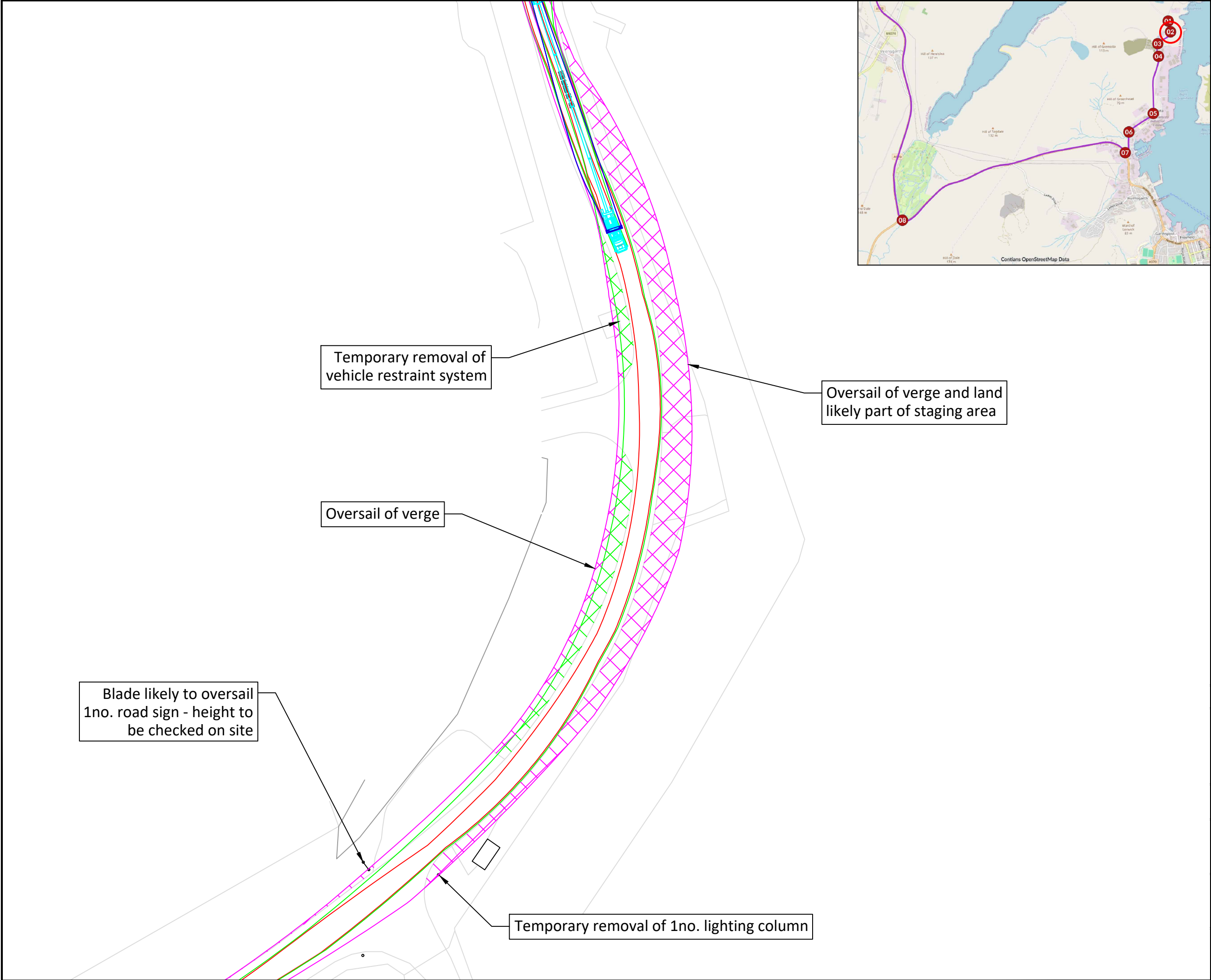
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 01
Manual Override Rear Steering Utilised

Drawn	Checked	Approved
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Original dtp. size A3	Date 13/04/2026	Scale 1:500
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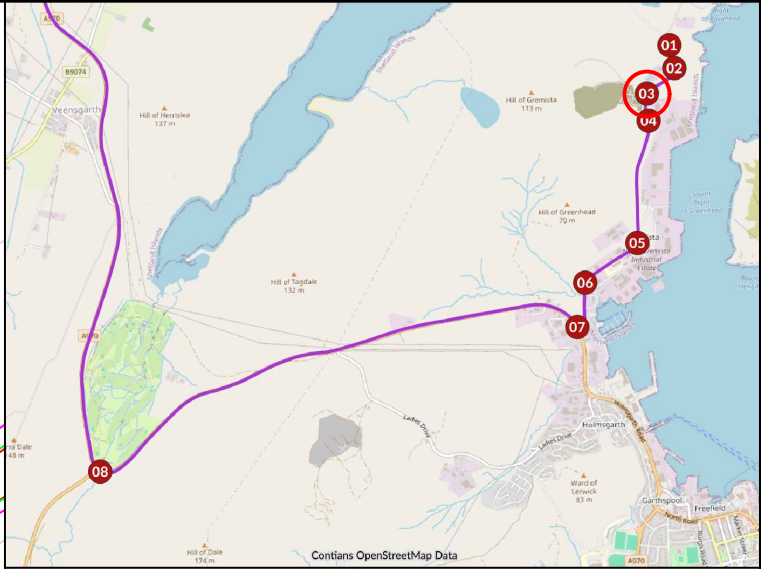
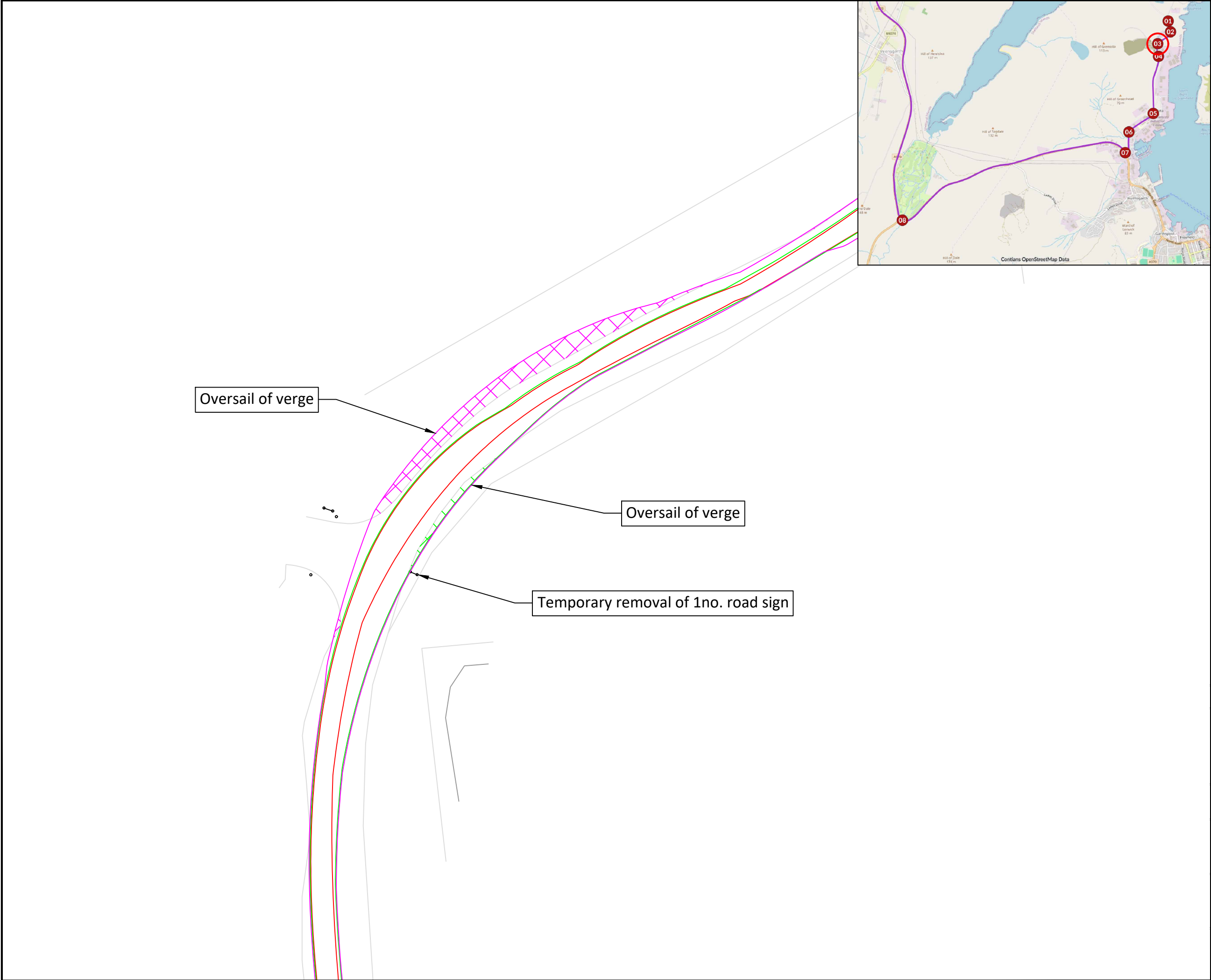
Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 02
Manual Override Rear Steering Utilised

Drawn	Checked	Approved
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Original dtp. size	Date	Scale
A3	13/04/2026	1:750

Drawing Status	Drawing Number	Rev.
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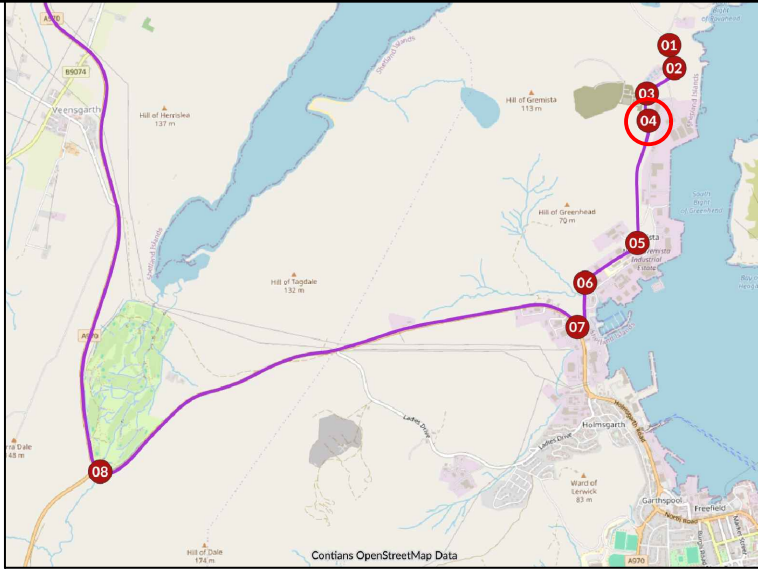
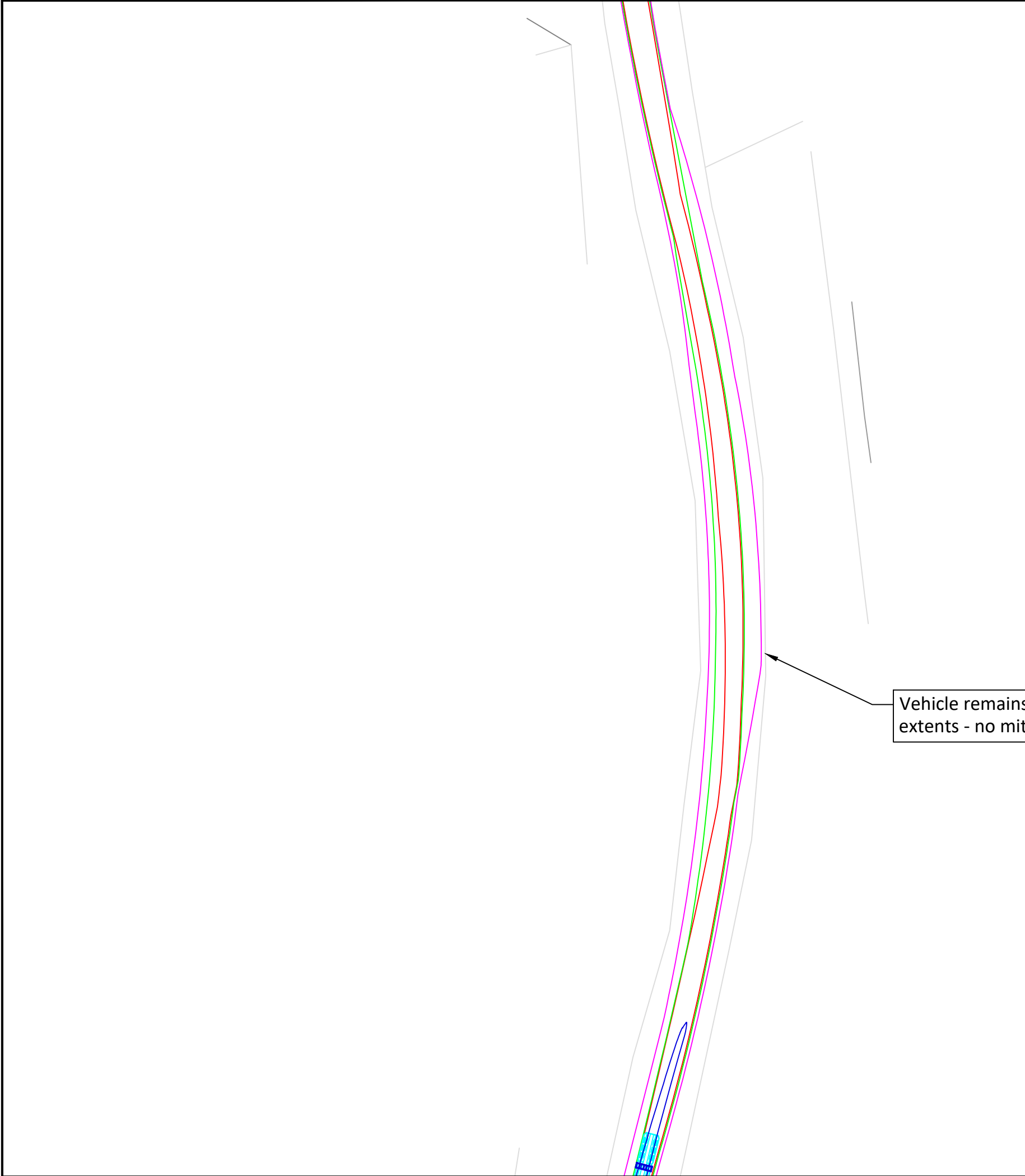
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 03
Manual Override Rear Steering Utilised

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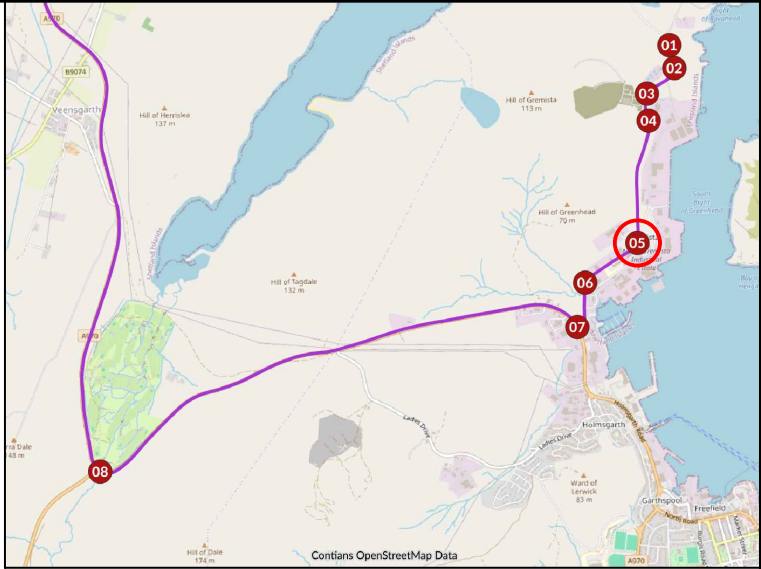
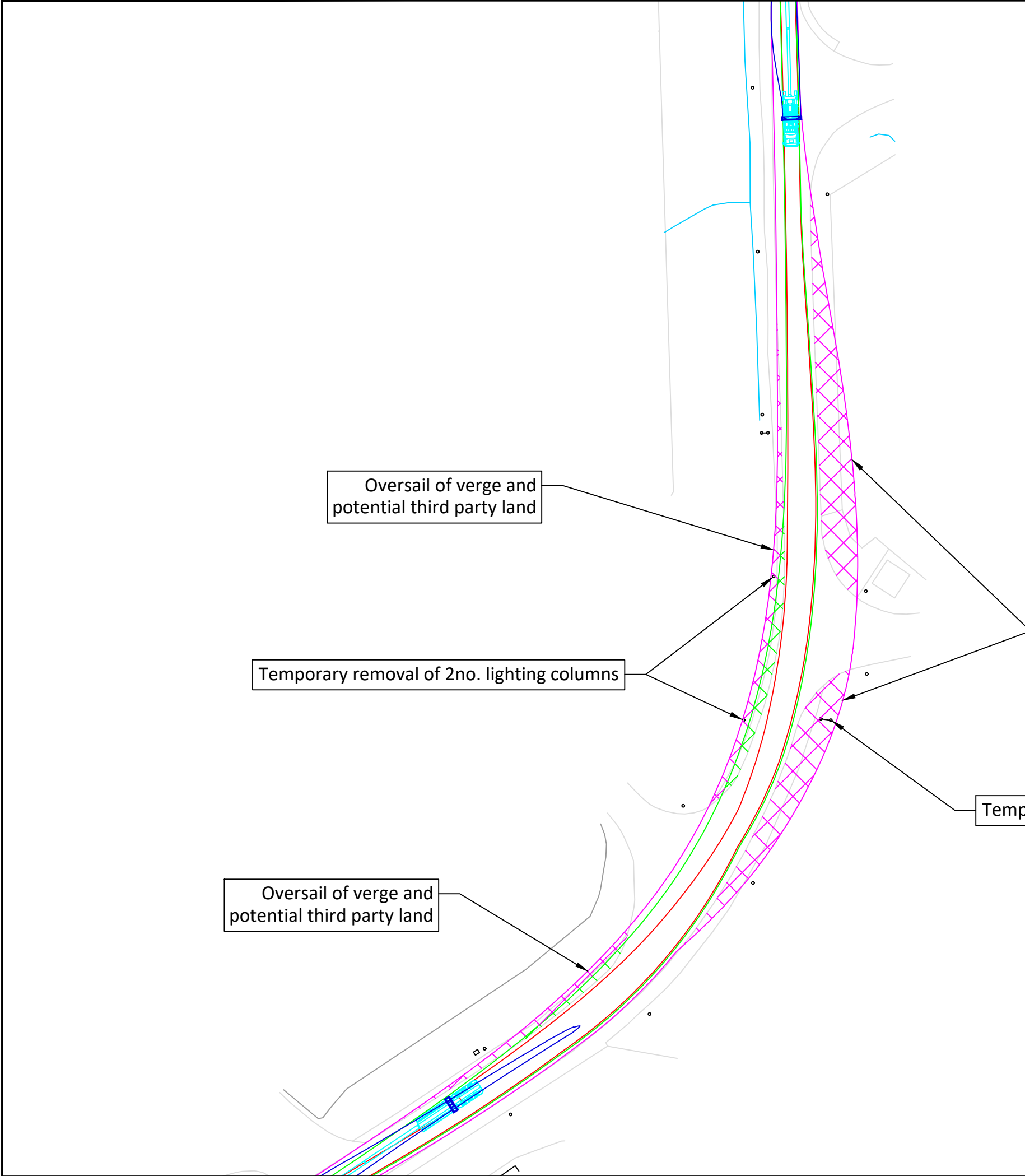
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Project Neshion Energy Park Swept Path Assessment					
Title Vestas V172 (84.35m Length) Blade Nooteboom Super Wing Carrier Pinch Point 04 Manual Override Rear Steering Utilised					
Drawn TF		Checked ADV		Approved ADV	
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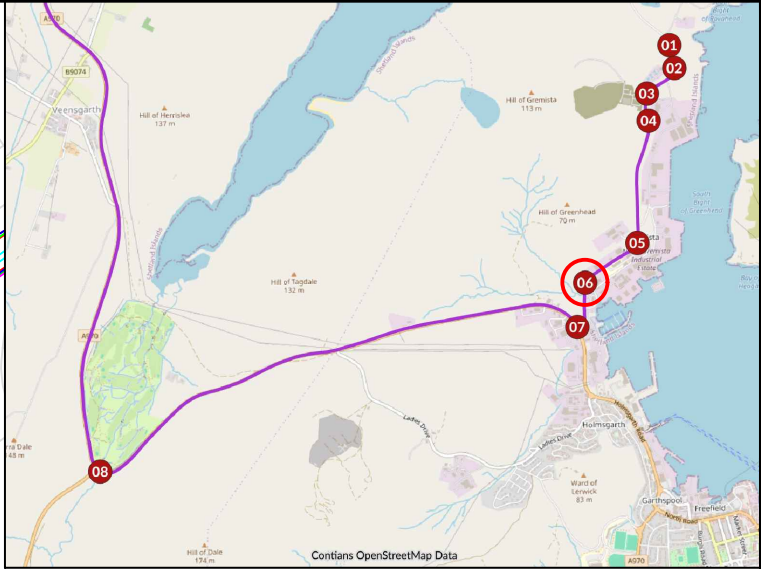
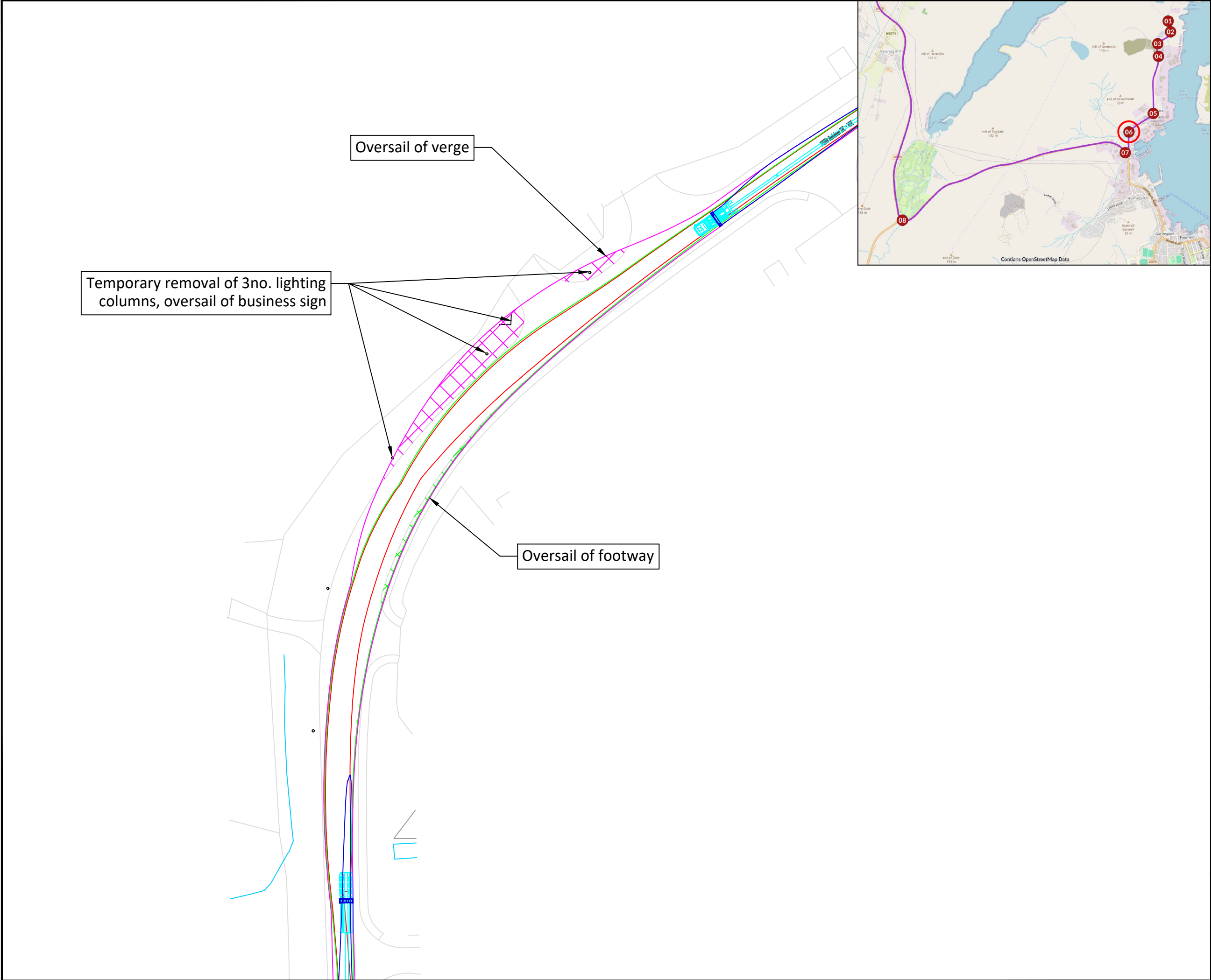
Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 05

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Client

Ramboll

Project

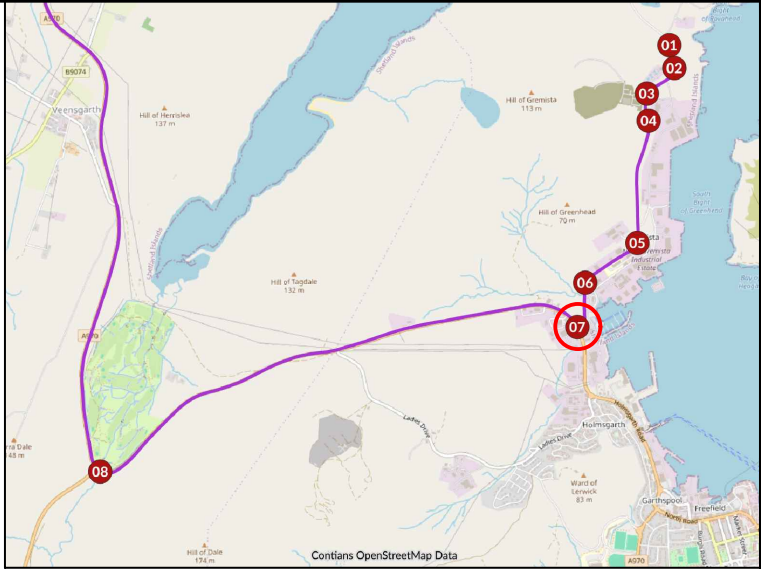
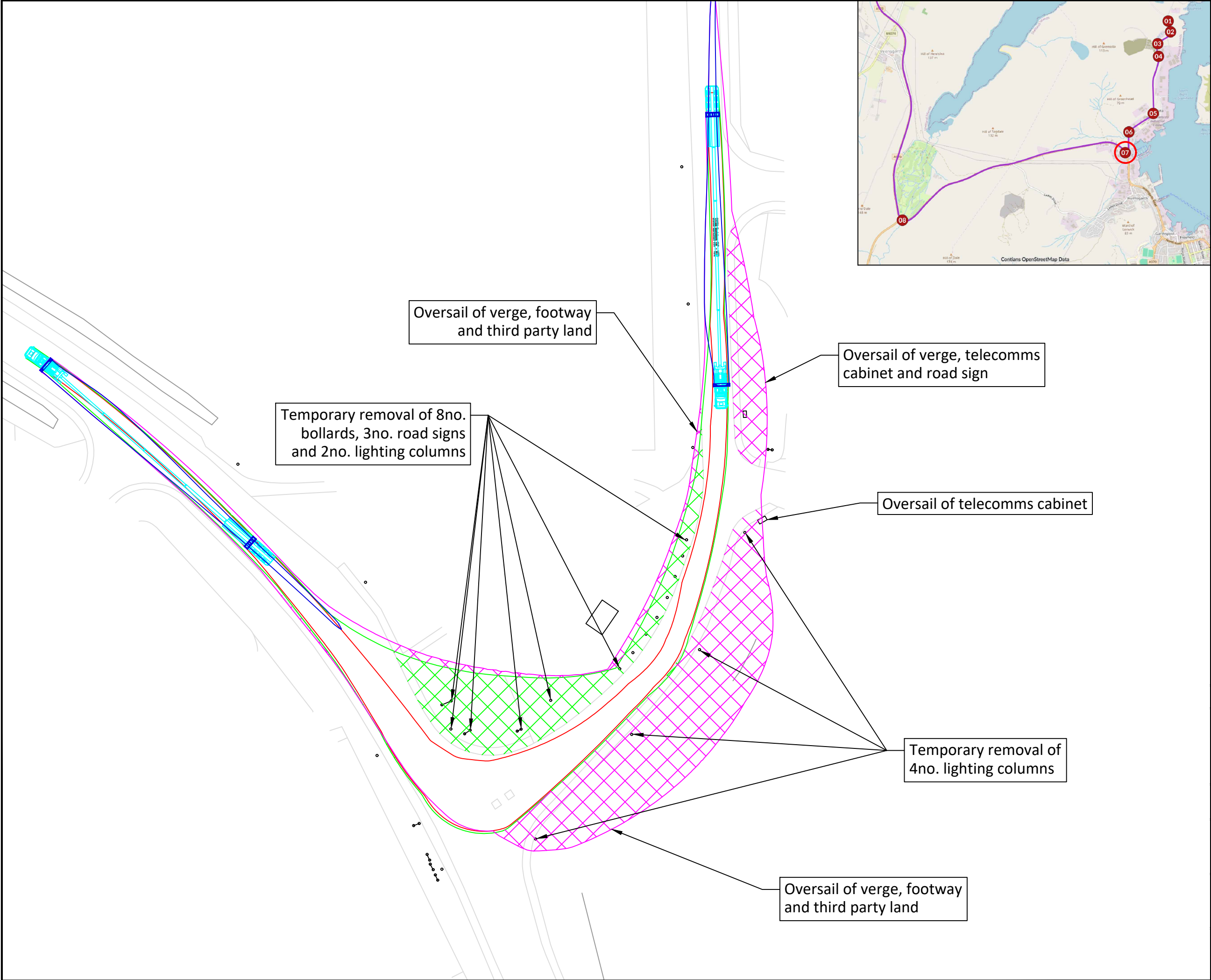
Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 06

Drawn	TF	Checked	ADV	Approved	ADV
Original dtp. size	A3	Date	13/04/2026	Scale	1:750
Drawing Status	Information	Drawing Number	GB01T24110/2001/SPA006	Rev.	-

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- All dimensions in metres unless otherwise stated.
- Please note that marked service locations are indicative only and should be confirmed by topographical survey.

Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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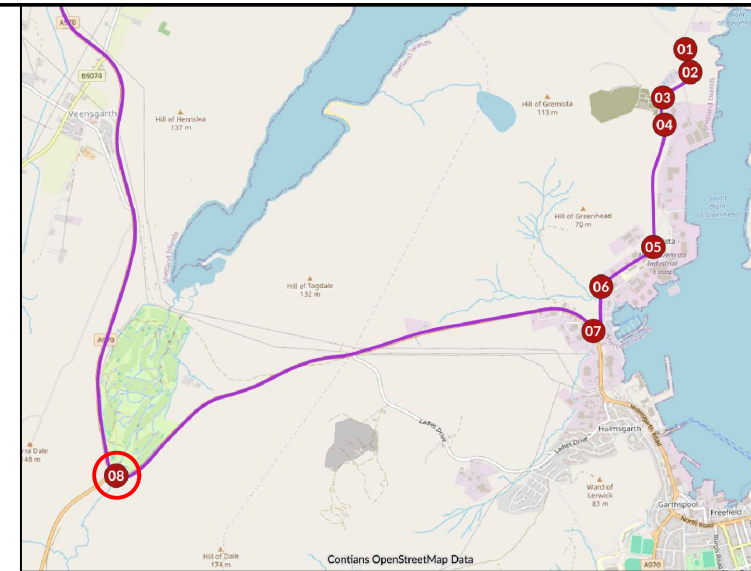
Client
Ramboll

Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 07
Manual Override Rear Steering Utilised

Drawn TF	Checked ADV	Approved ADV
Original dtp. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information		Rev. -

Drawing Number
GB01T24110/2001/SPA007

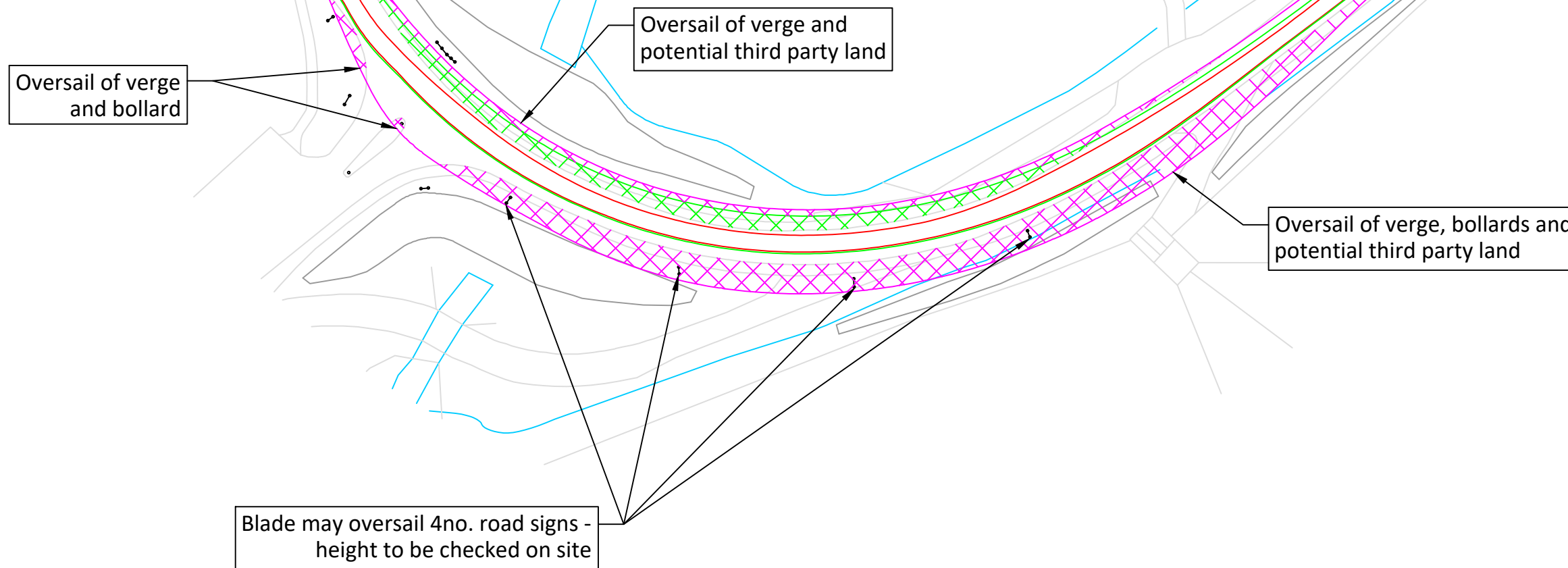


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| 3. Please note that marked service locations are indicative only and should be confirmed by topographical survey. |

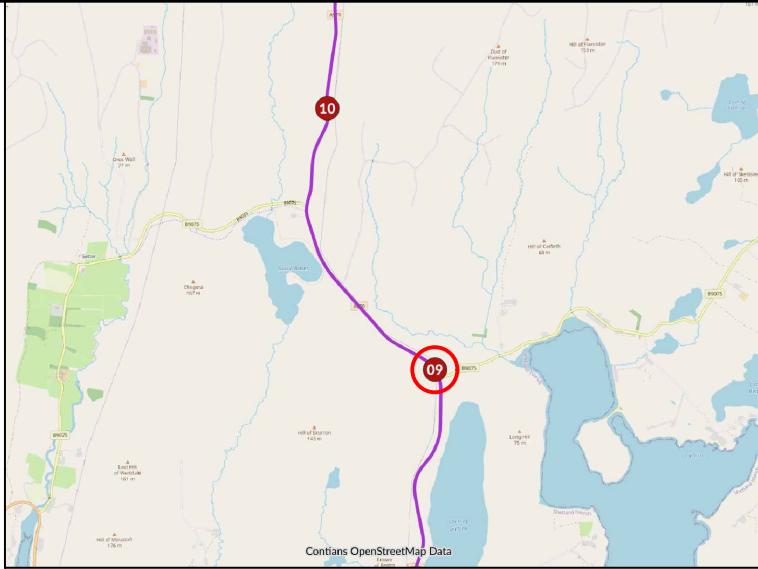
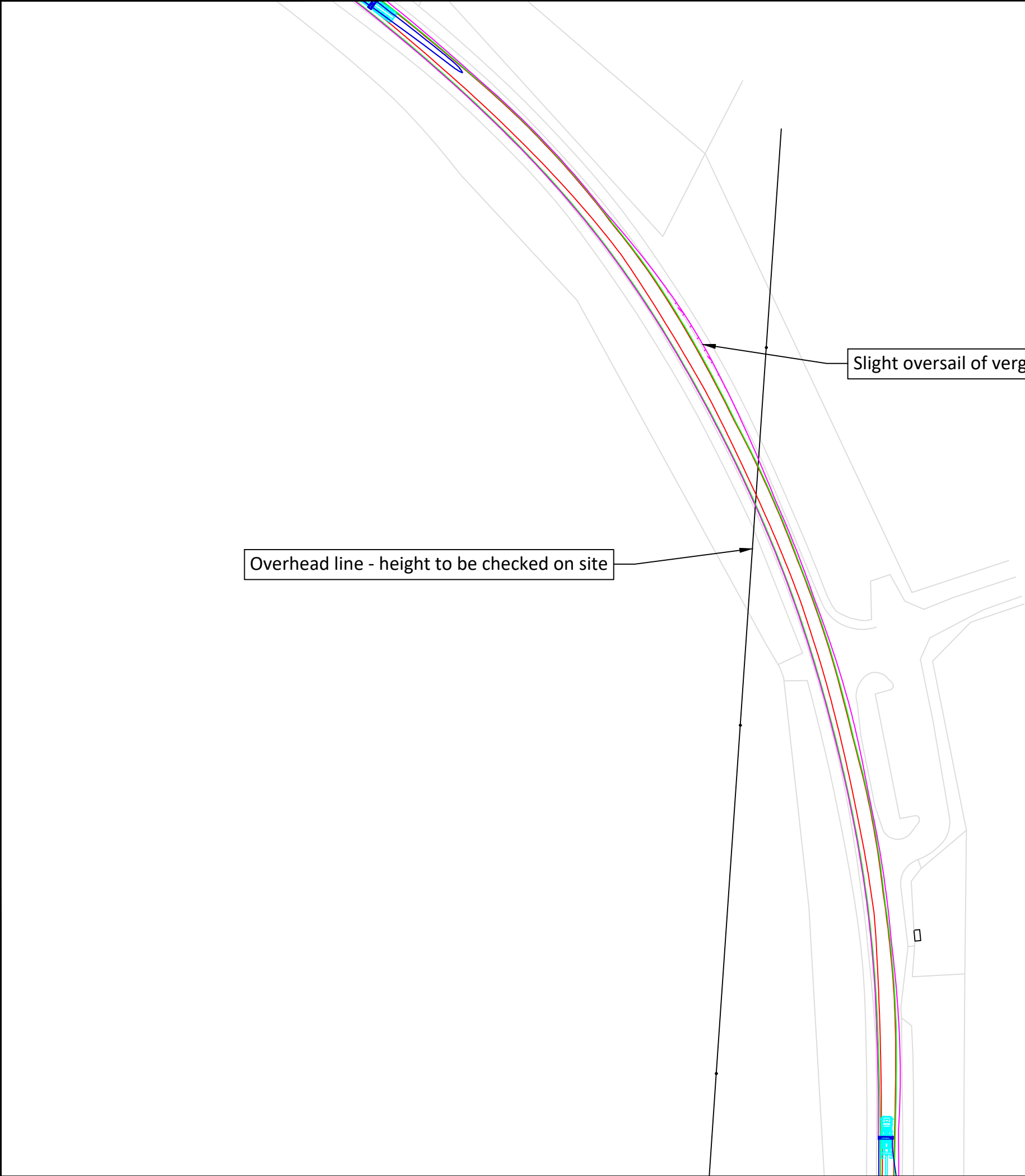


Key:

-  Blade Transporter Vehicle
-  Blade Outline
-  Over-run envelope of tractor and trailer wheels
-  Over-sail envelope being swept by tractor and trailer bed
-  Over-sail envelope being swept by blade path
-  Over-run area of tractor and trailer wheels out with carriageway
-  Over-sail area of tractor and trailer bed out with carriageway
-  Over-sail area of blade out with carriageway



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Ramboll					
Project					
Neshion Energy Park Swept Path Assessment					
Title					
Vestas V172 (84.35m Length) Blade Nootebow Super Wing Carrier Pinch Point 08					
Drawn		Checked		Approved	
TF		ADV		ADV	
Original dwg. size		Date		Scale	
A3		13/04/2026		1:1000	
Drawing Status		Drawing Number			Rev.
Information		GB01T24110/2001/SPA008			-



Notes:

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- Please note that marked service locations are indicative only and should be confirmed by topographical survey.

Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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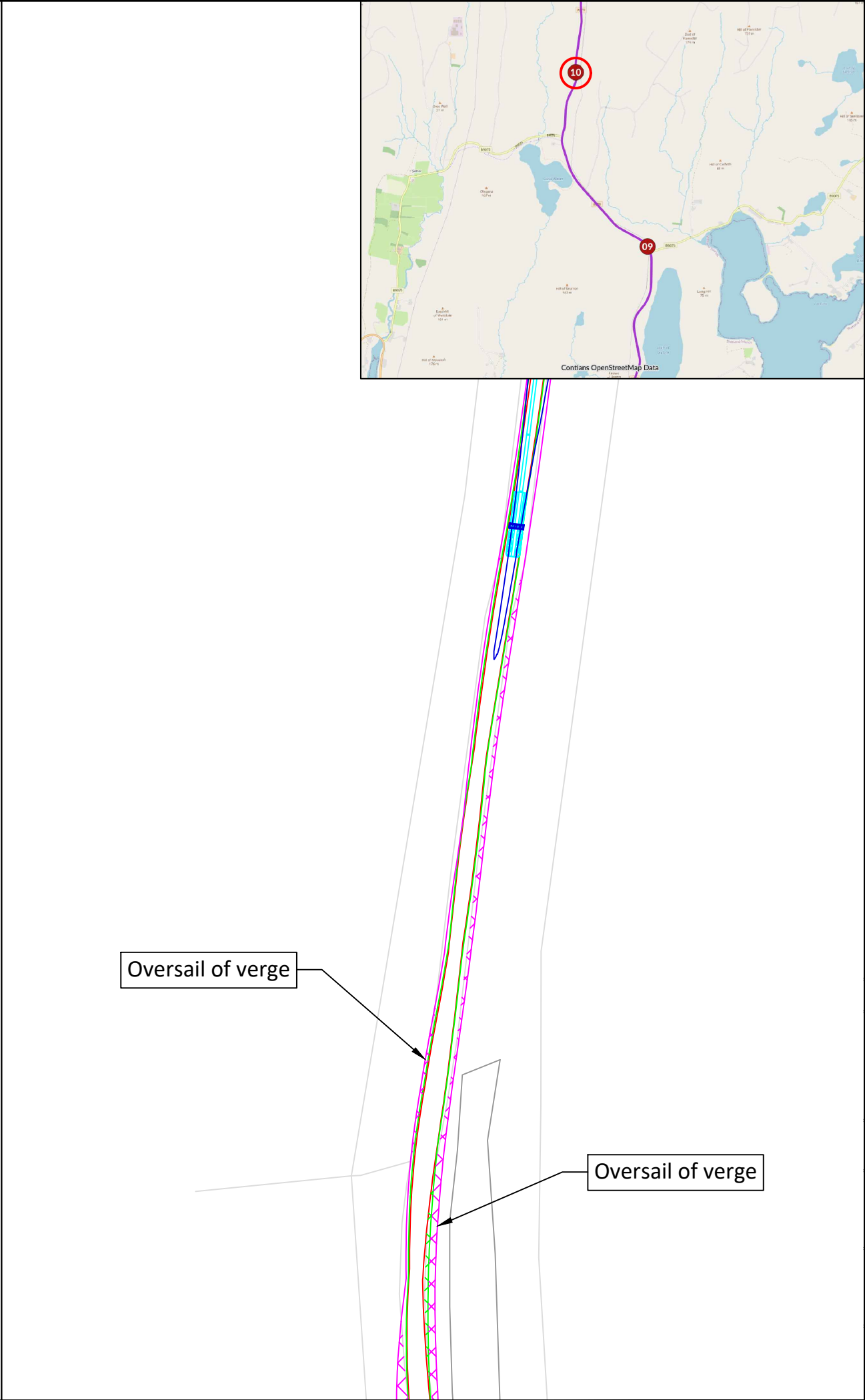
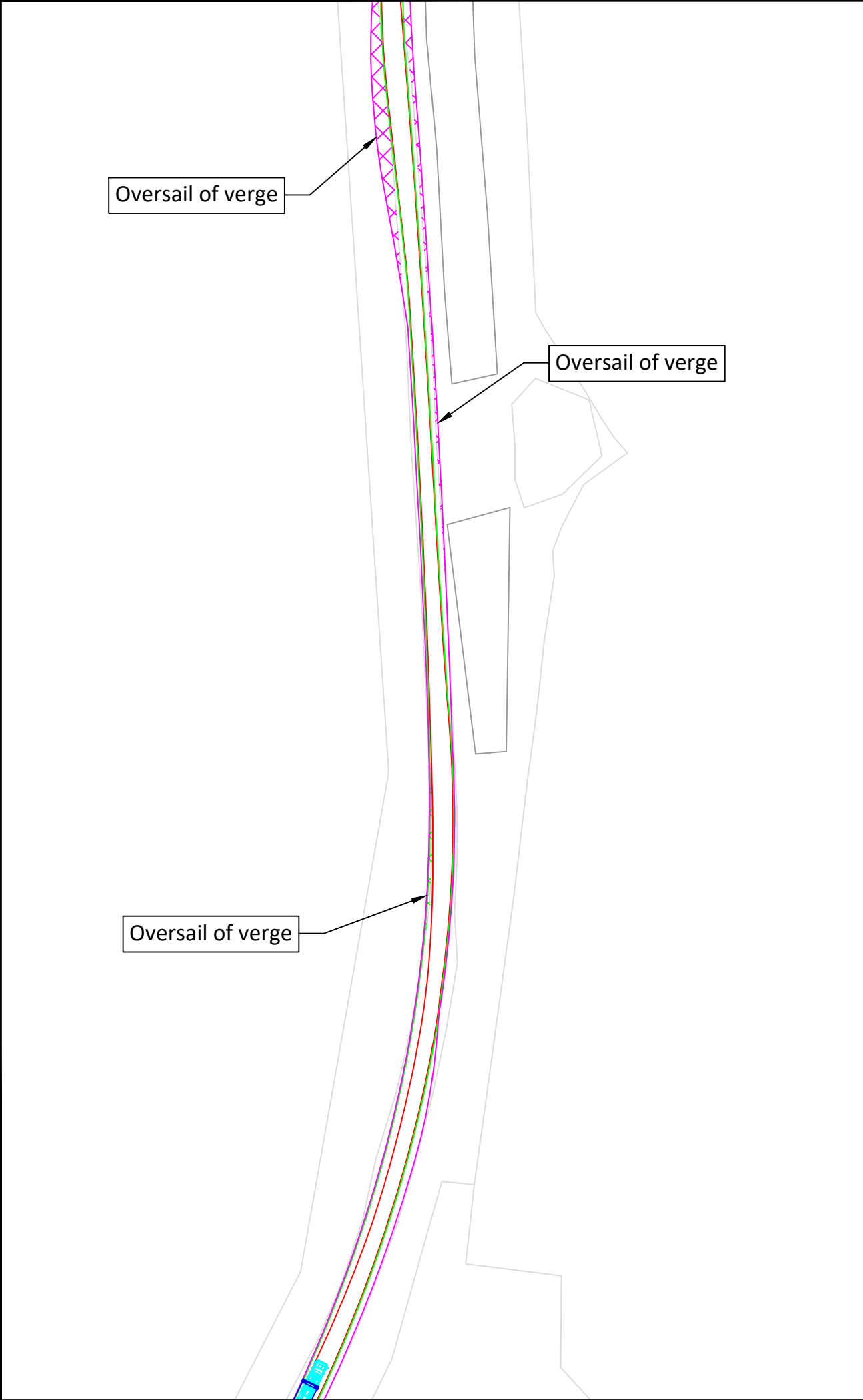
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 09
Manual Override Rear Steering Utilised

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size	Date	Scale
A3	13/04/2026	1:1000
Drawing Status	Drawing Number	Rev.
Information	GB01T24I10/2001/SPA009	-



Notes:

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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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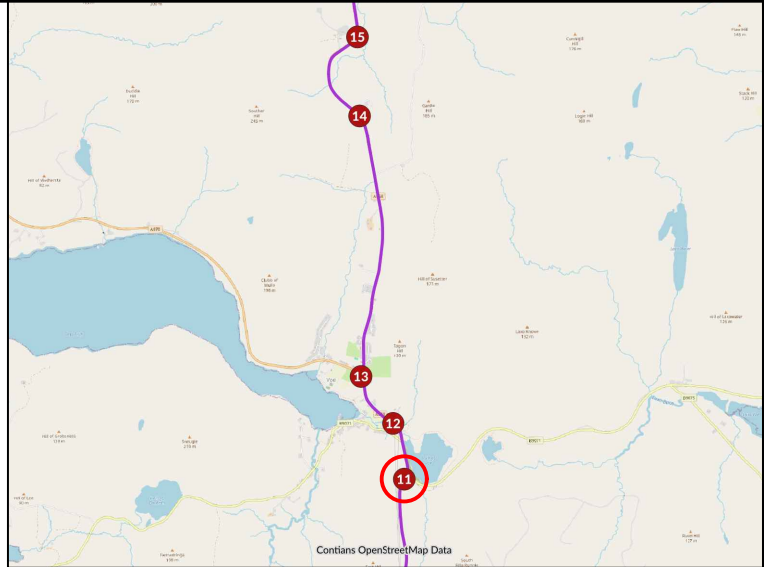
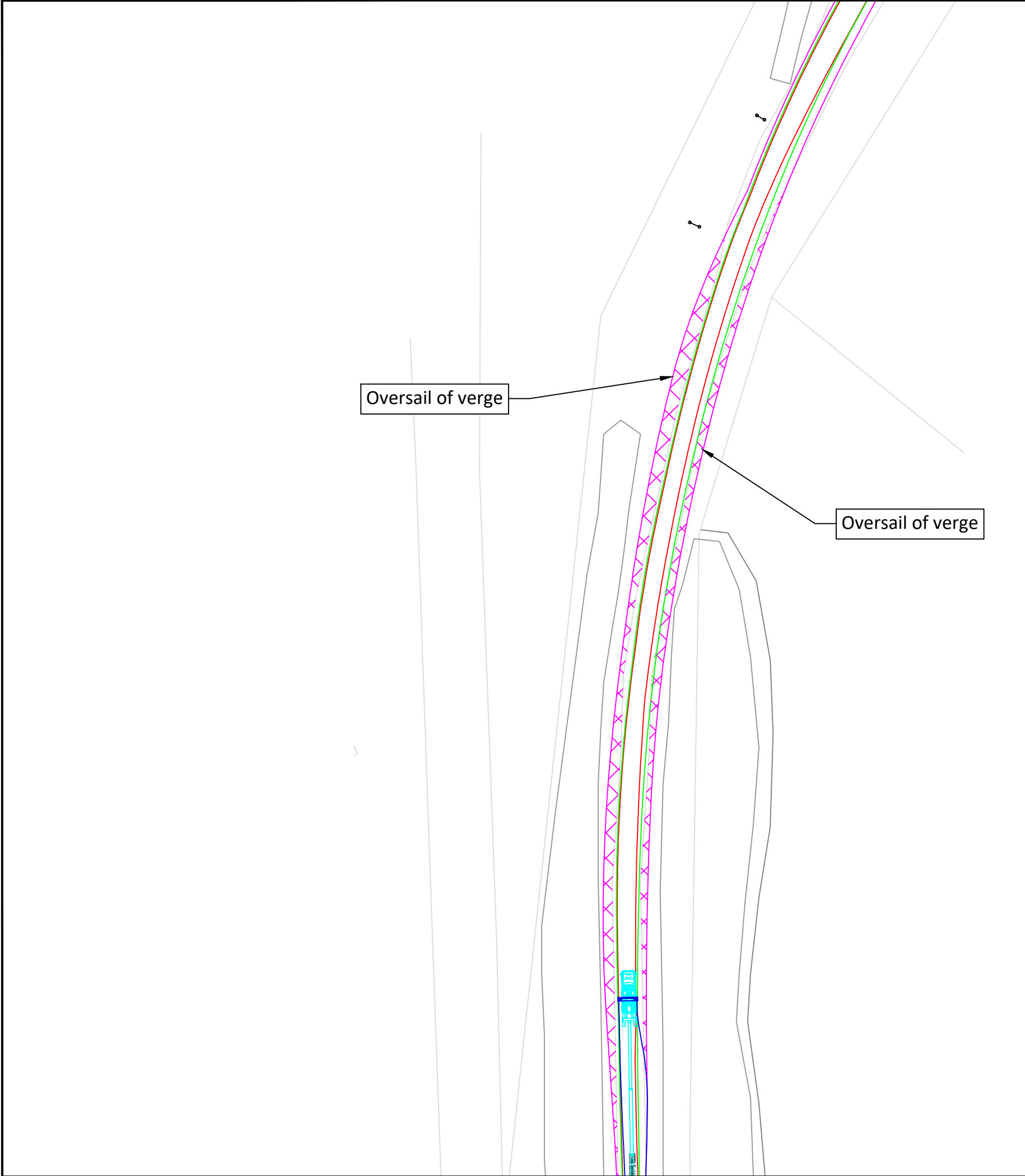
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 10

Drawn	TF	Checked	ADV	Approved	ADV
Original dwg. size	A3	Date	13/04/2026	Scale	1:1000
Drawing Status	Information	Drawing Number	GB01T24110/2001/SPA010	Rev.	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

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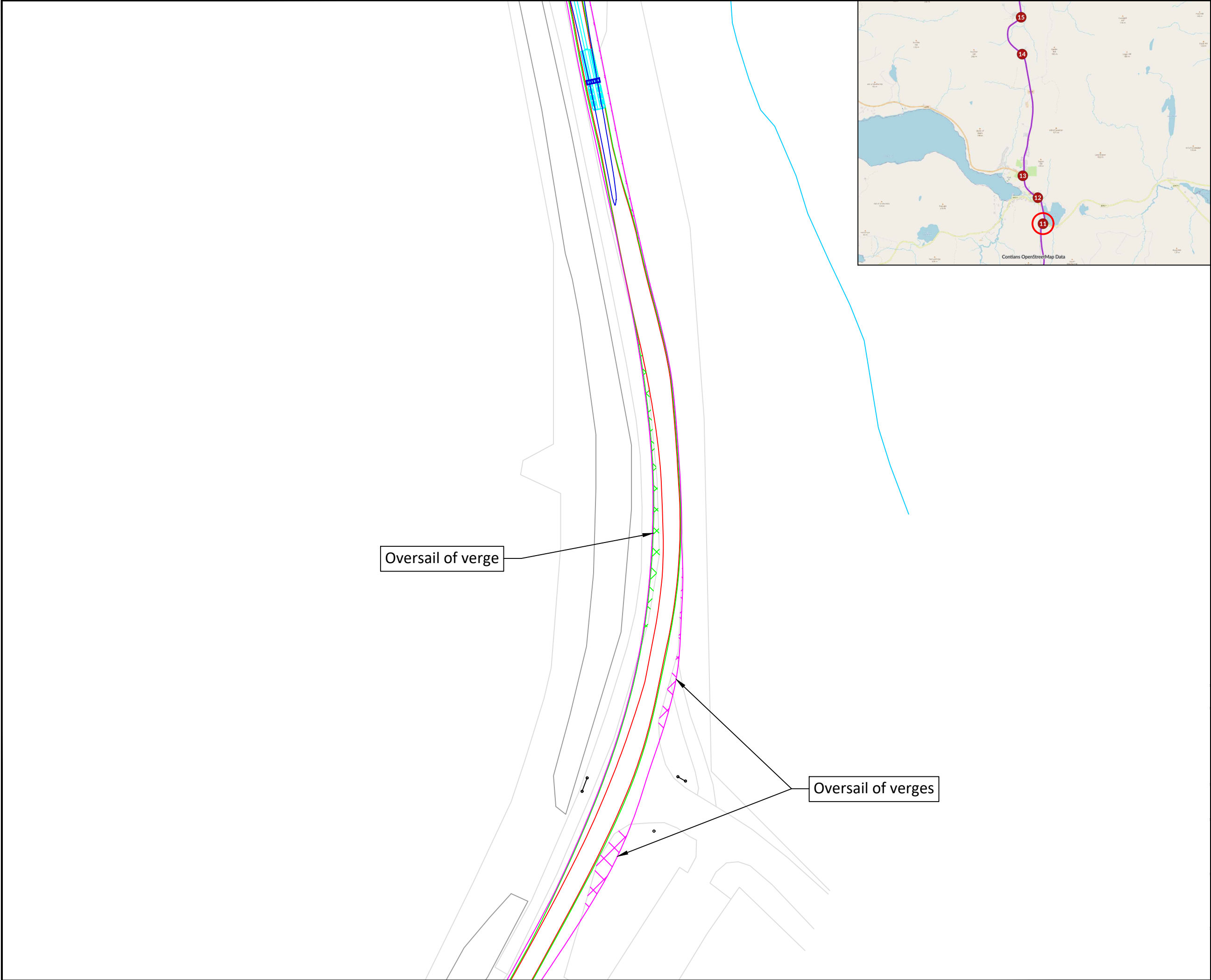
Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 11 - Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original dtd. size	Date	Scale
A3	13/04/2026	1:750

Drawing Status	Drawing Number	Rev.
Information	GB01T24I10/2001/SPA011	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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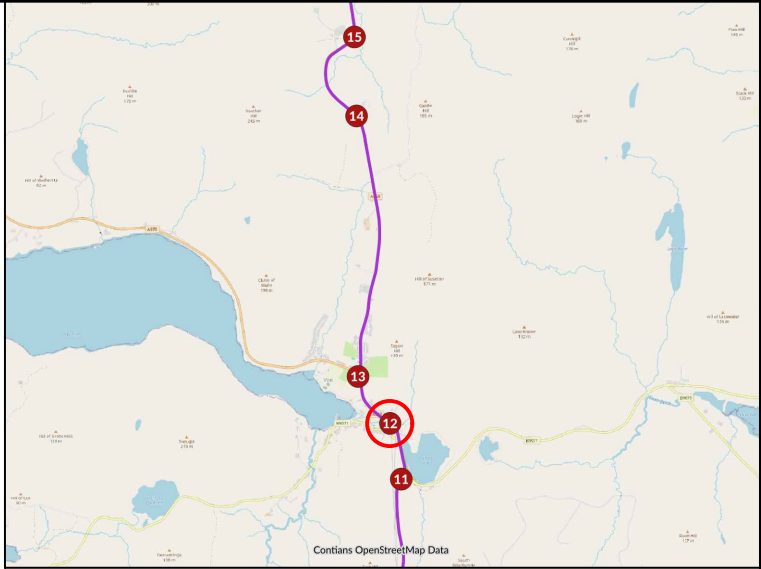
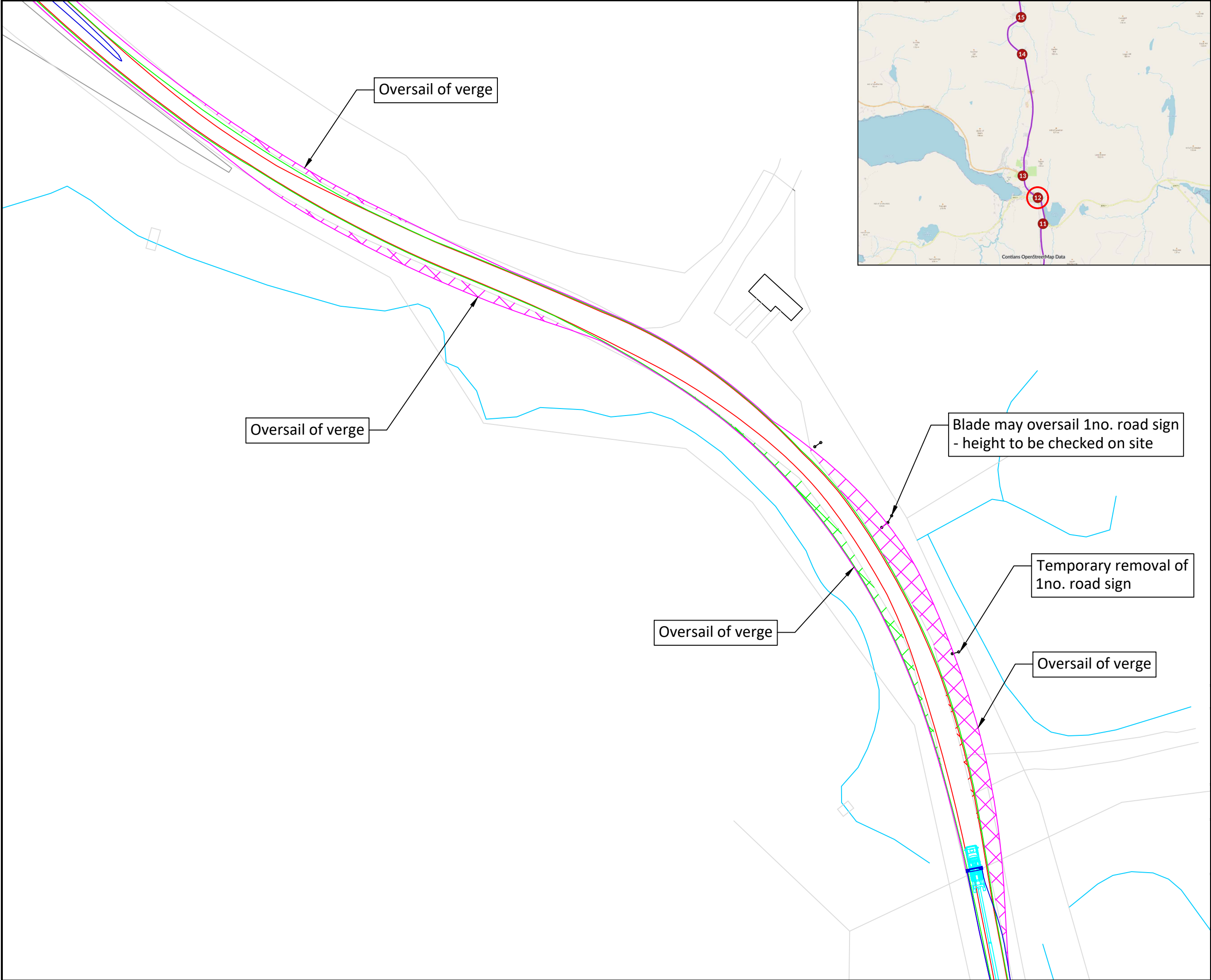
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 11 - Sheet 2 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original dtp. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information	Drawing Number GB01T24110/2001/SPA012	Rev. -



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Revision History

Rev.	Date	Revision details	Drawn	Checked	Approved
A	13/04/26	Update to annotation text	TF	ADV	ADV

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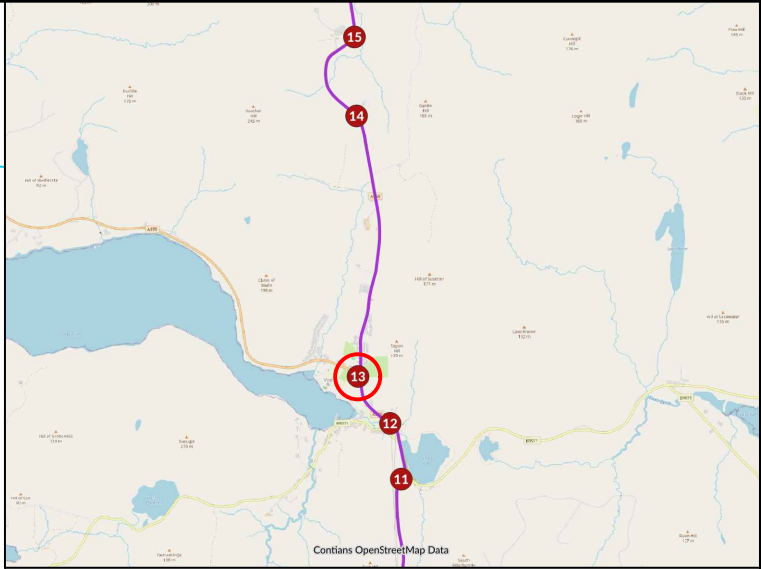
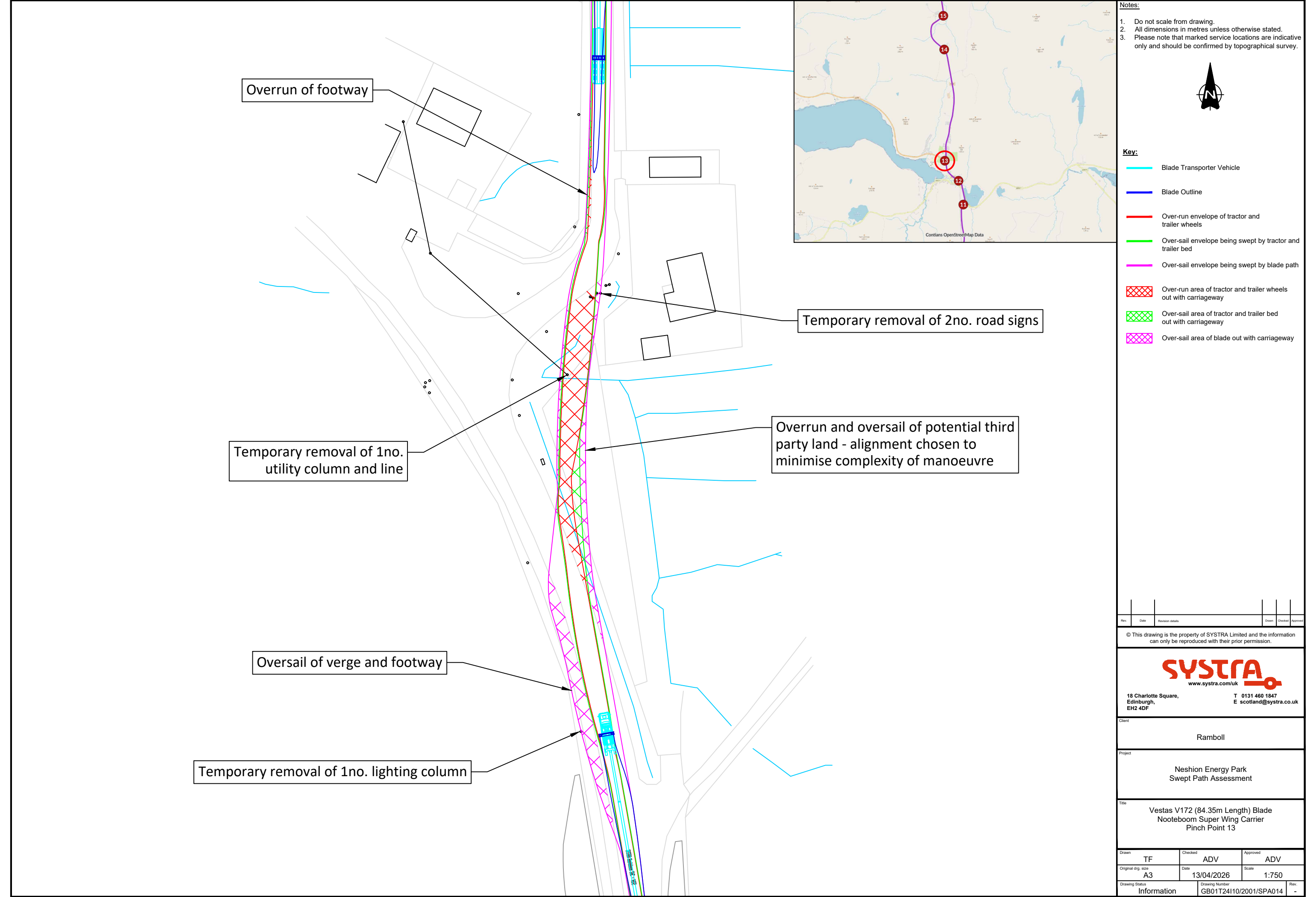
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 12

Drawn	TF	Checked	ADV	Approved	ADV
Original dtd. size	A3	Date	13/04/2026	Scale	1:750
Drawing Status	Information	Drawing Number	GB01T24I10/2001/SPA013	Rev.	A



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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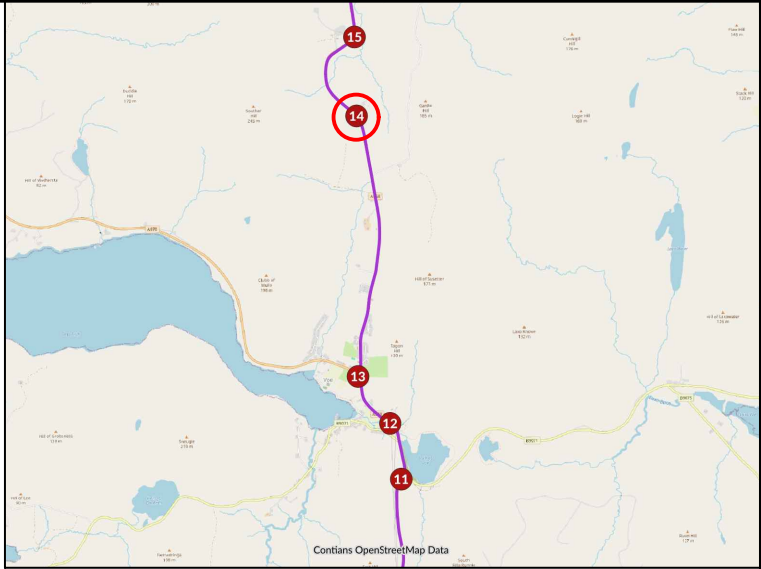
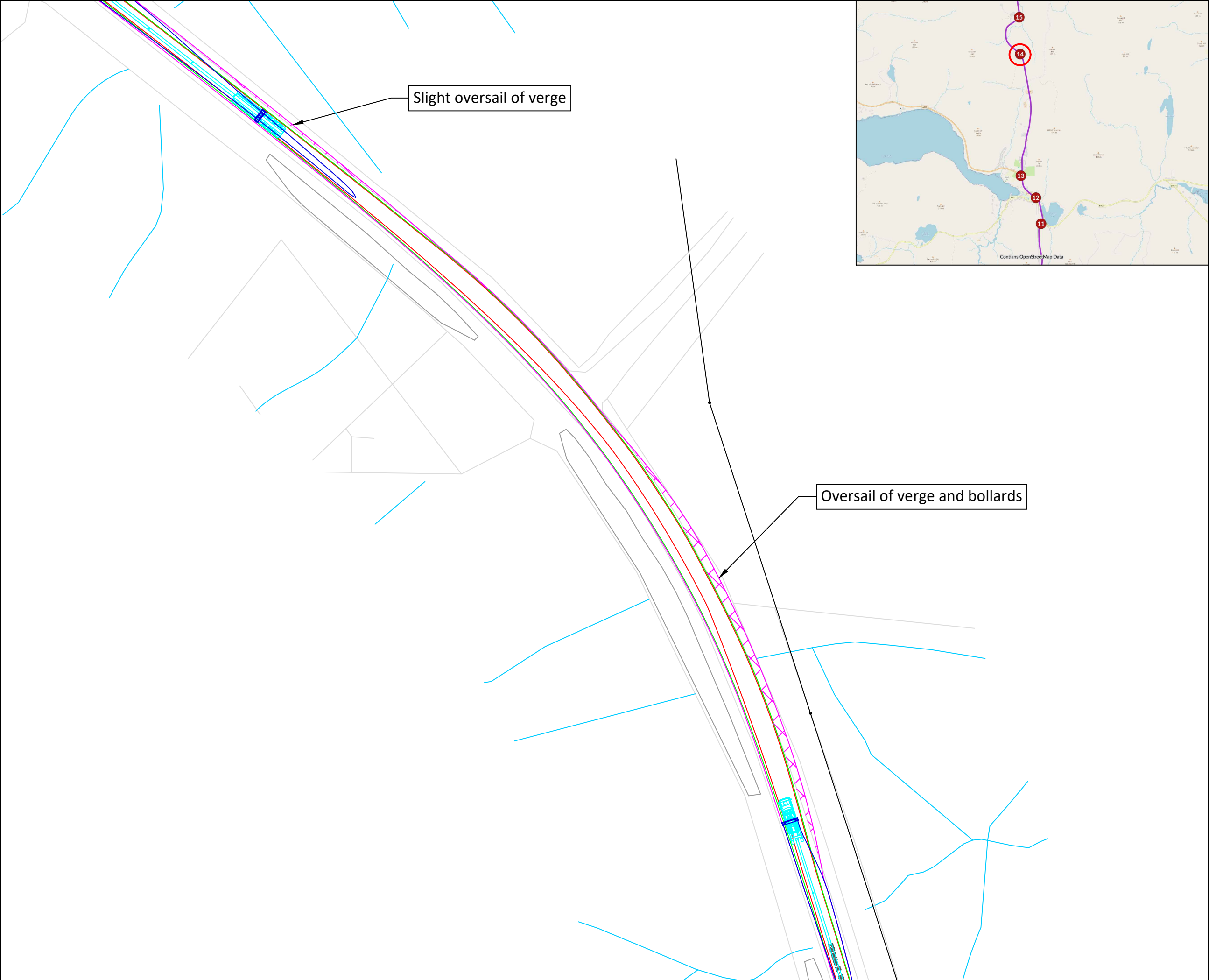
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 13

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information	Drawing Number GB01T24110/2001/SPA014	Rev. -



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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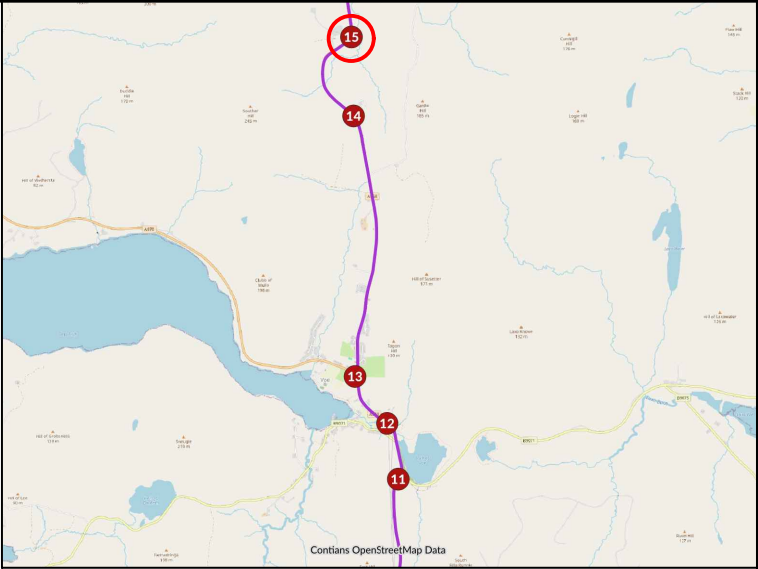
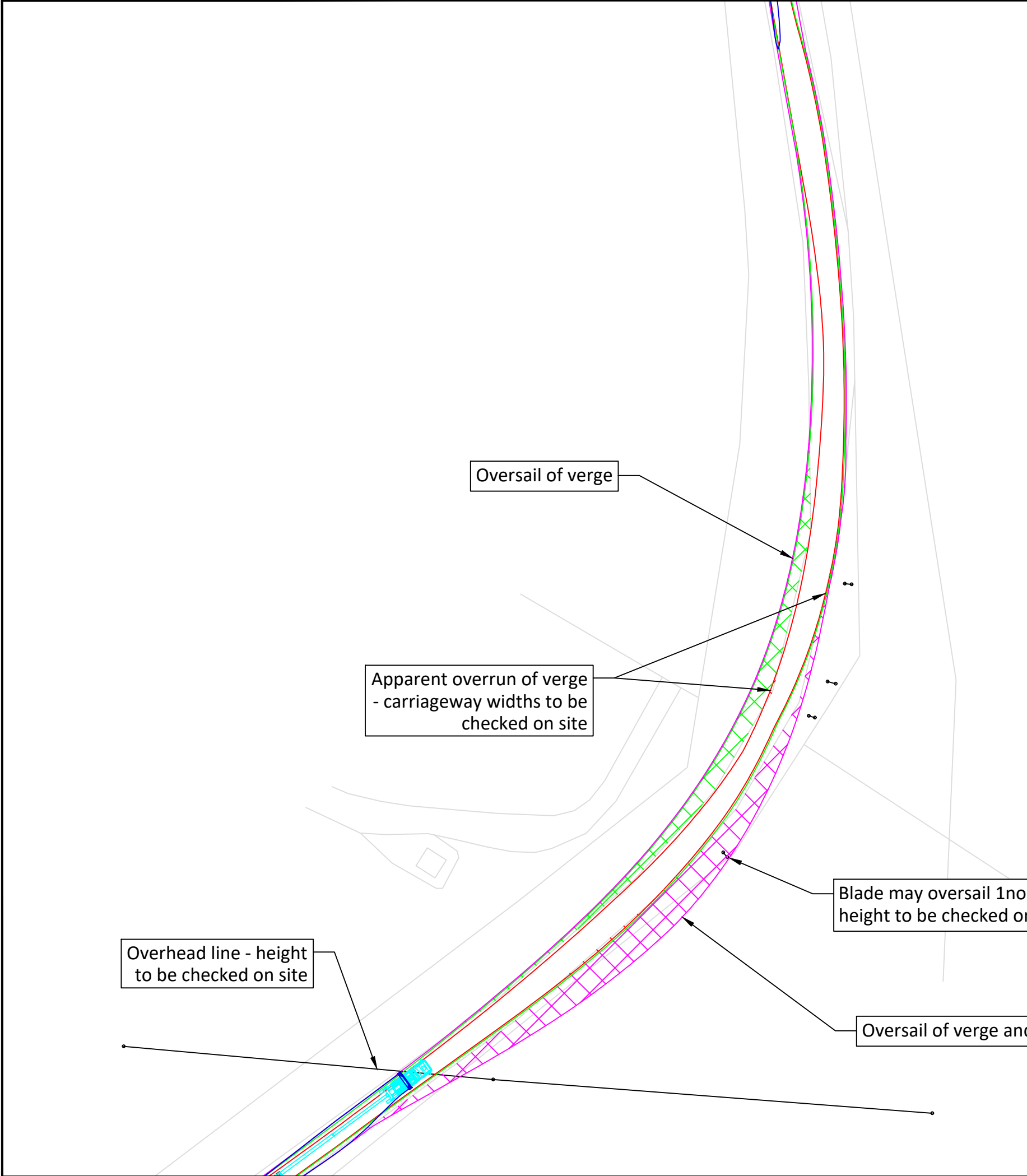
Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 14

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size	Date	Scale
A3	13/04/2026	1:750

Drawing Status	Drawing Number	Rev.
Information	GB01T24I10/2001/SPA015	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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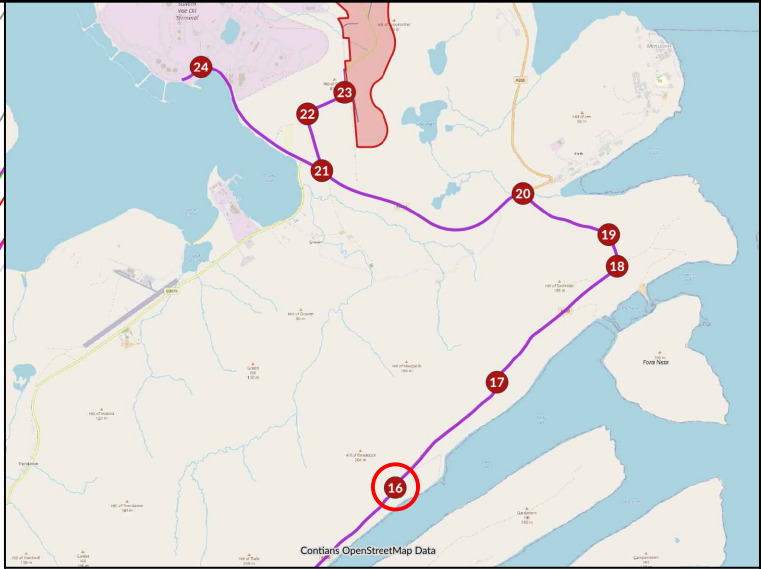
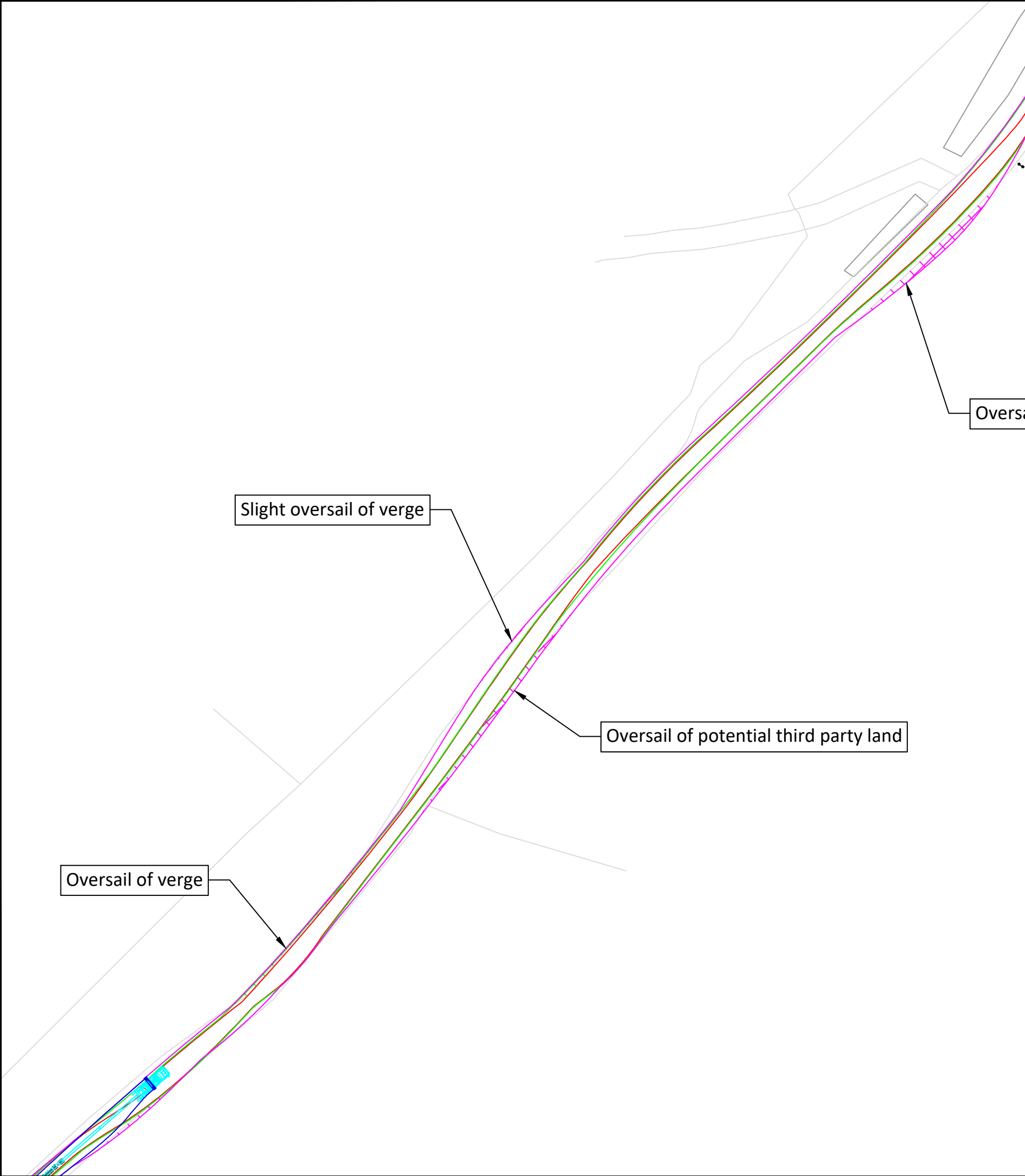
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 15

Drawn	Checked	Approved
TF	ADV	ADV
Original dtp. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information	Drawing Number GB01T24110/2001/SPA016	Rev. -



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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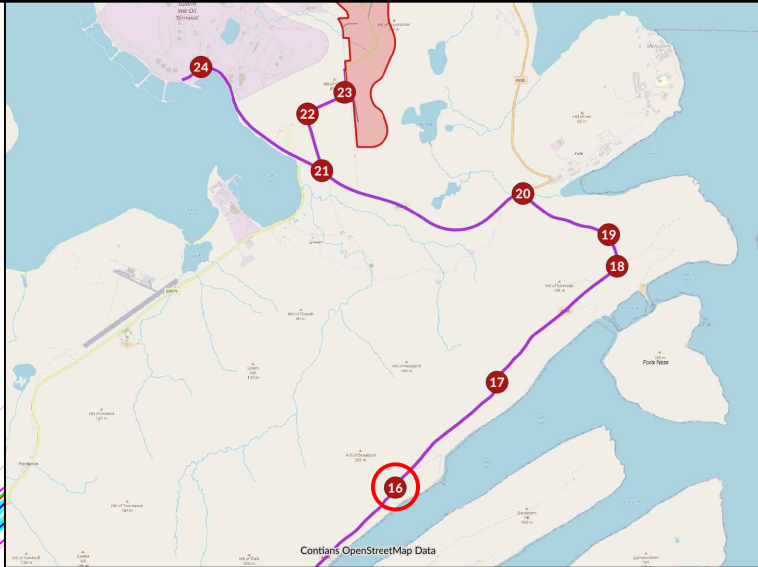
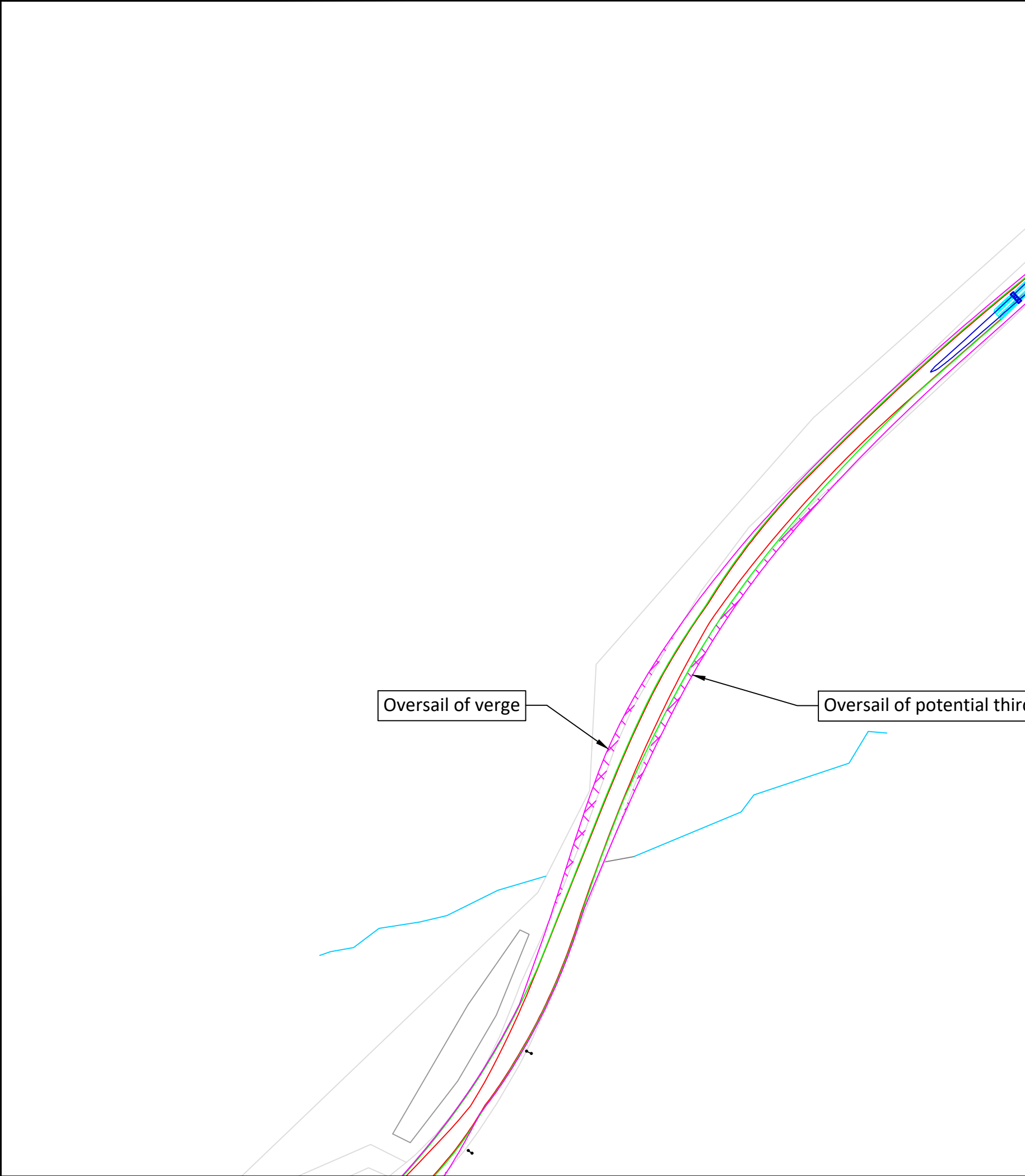
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 16 - Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size A3	Date 13/04/2026	Scale 1:1000
Drawing Status Information	Drawing Number GB01T24I10/2001/SPA017	Rev. -



Notes:

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- Please note that marked service locations are indicative only and should be confirmed by topographical survey.

Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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Swept Path Assessment

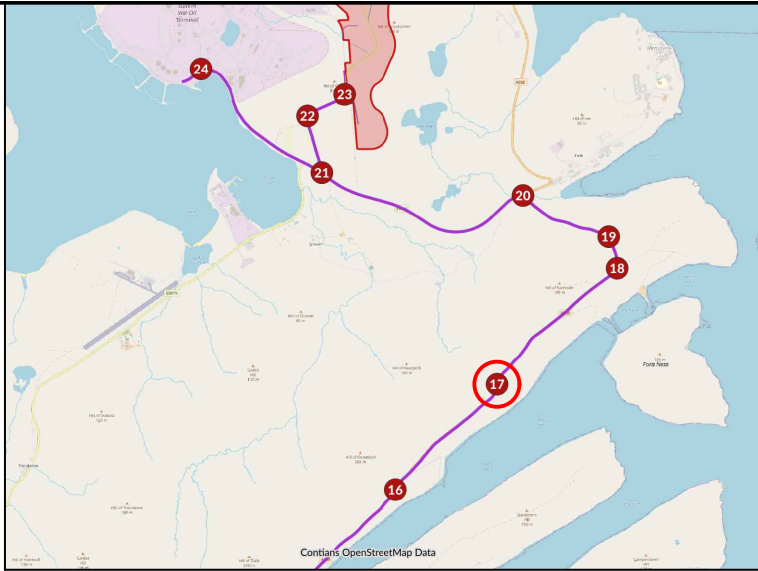
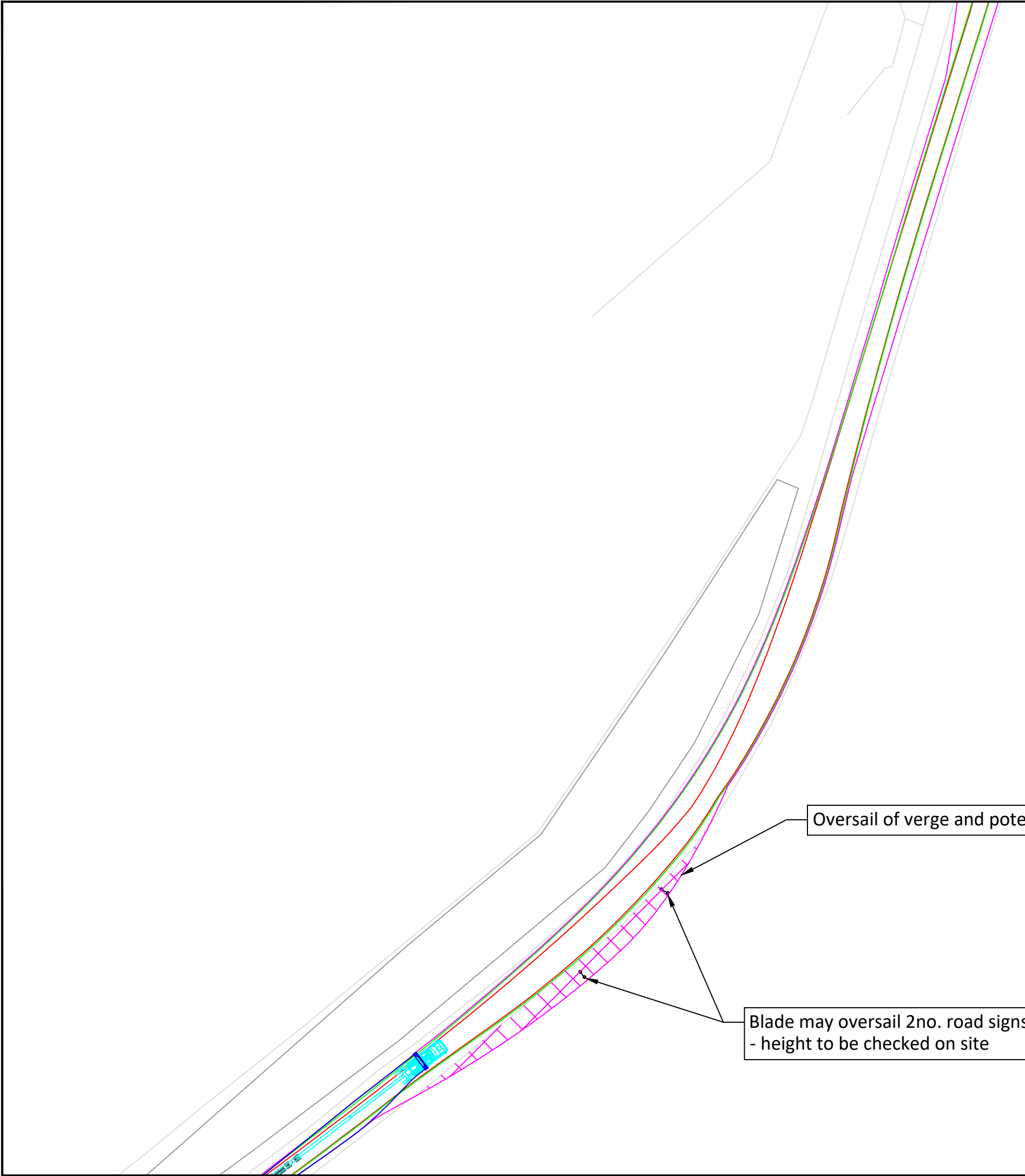
Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 16 - Sheet 2 of 2

Drawn	TF	Checked	ADV	Approved	ADV
Original dtd. size	A3	Date	13/04/2026	Scale	1:1000
Drawing Status	Information		Drawing Number	GB01T24110/2001/SPA018	Rev.
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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

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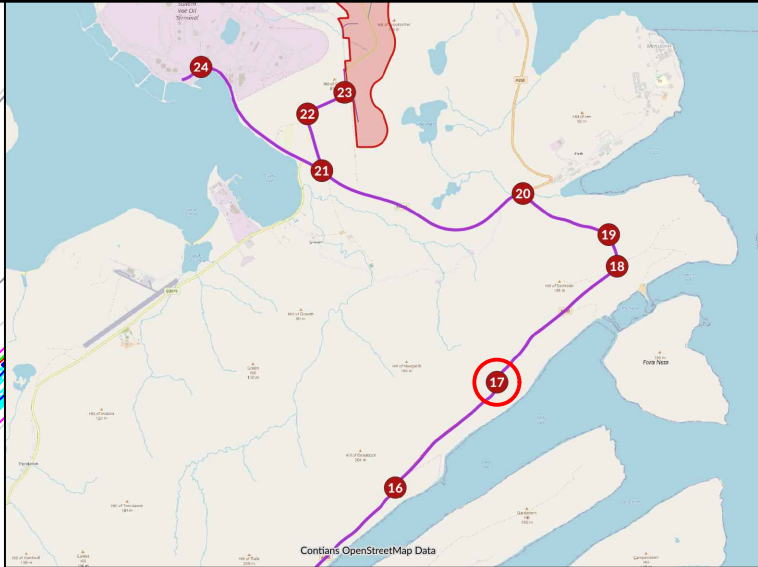
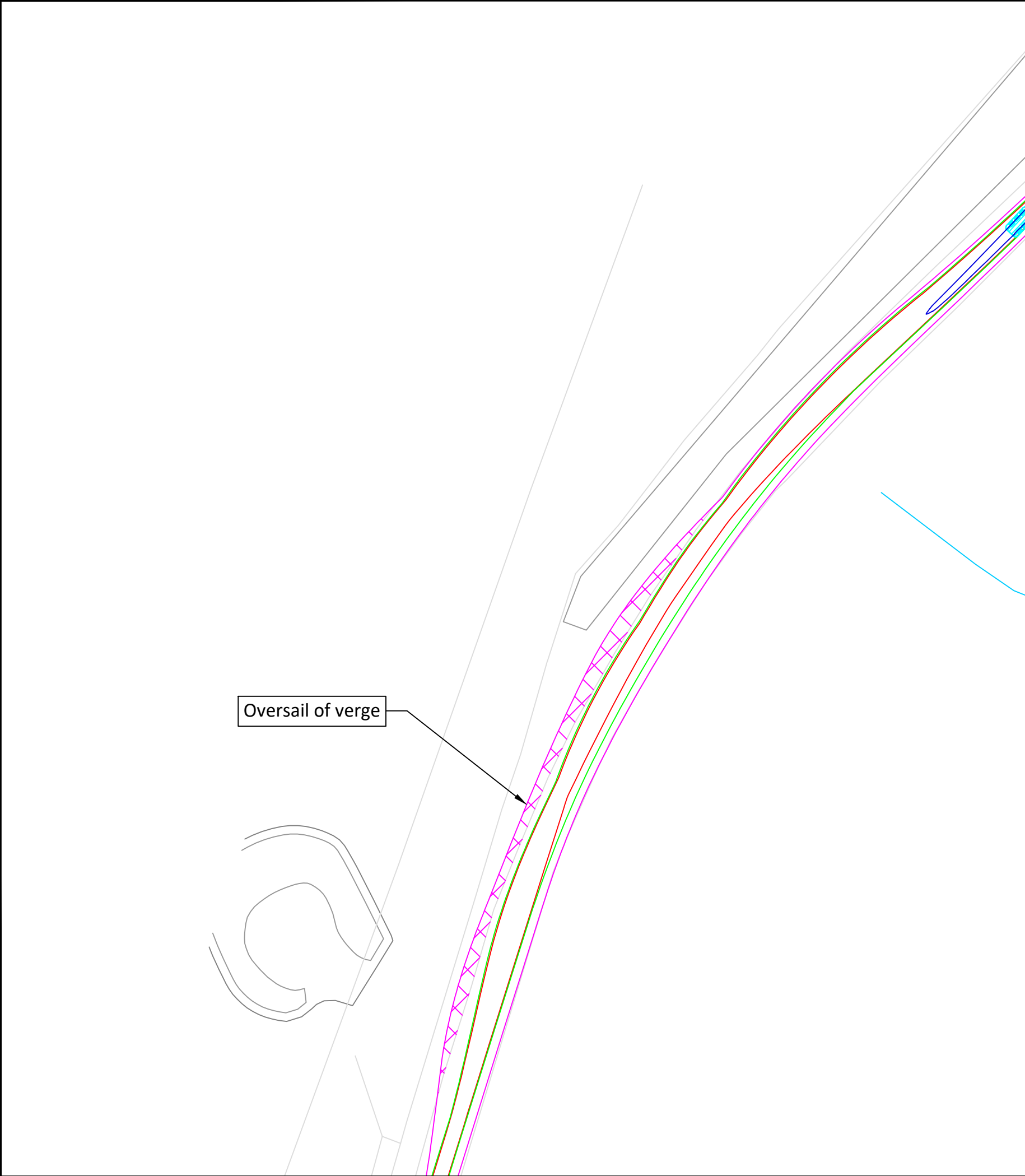
Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 17 - Sheet 1 of 2

Drawn TF	Checked ADV	Approved ADV
Original dtd. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information		Rev. -

Drawing Number
GB01T24110/2001/SPA019

Rev.
-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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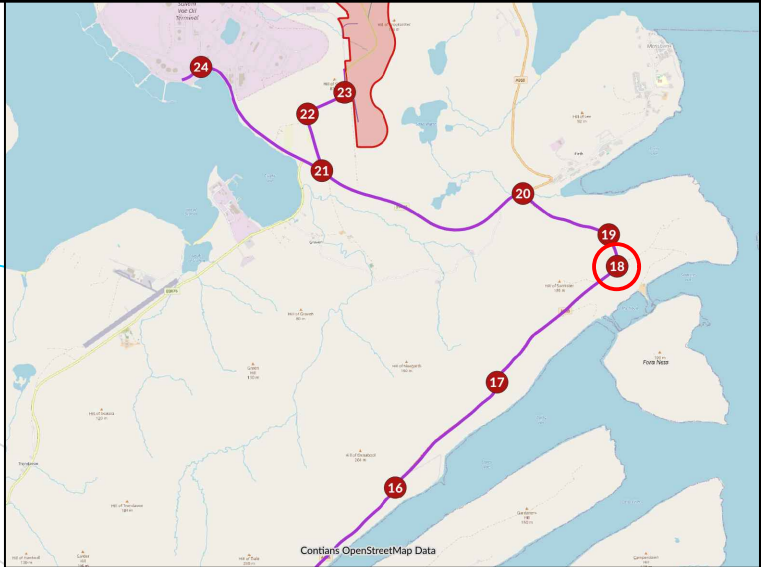
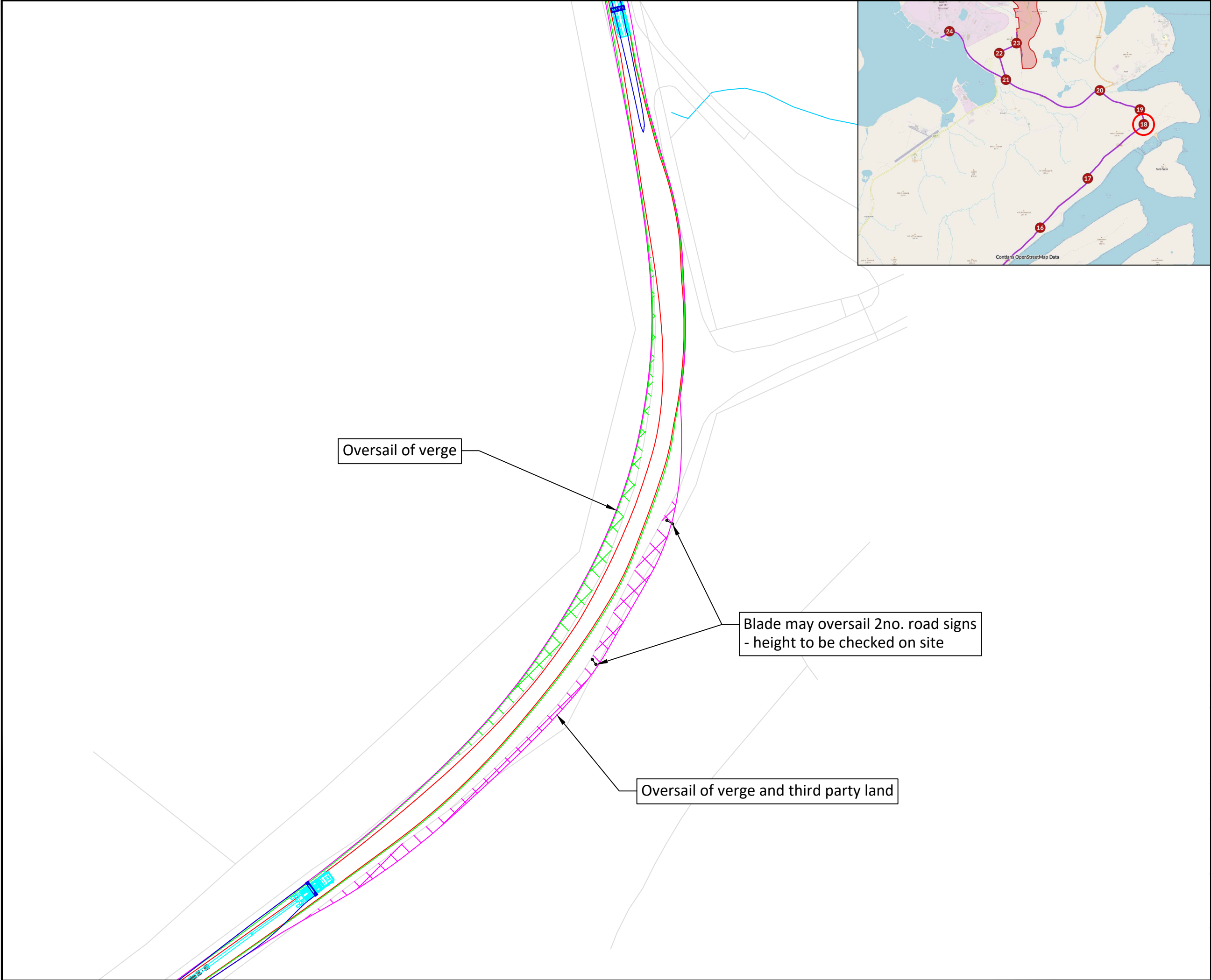
Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 17 - Sheet 2 of 2

Drawn TF	Checked ADV	Approved ADV
Original dtp. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information		Rev. -

Drawing Number
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Rev.
-



Notes:

1. Do not scale from drawing.
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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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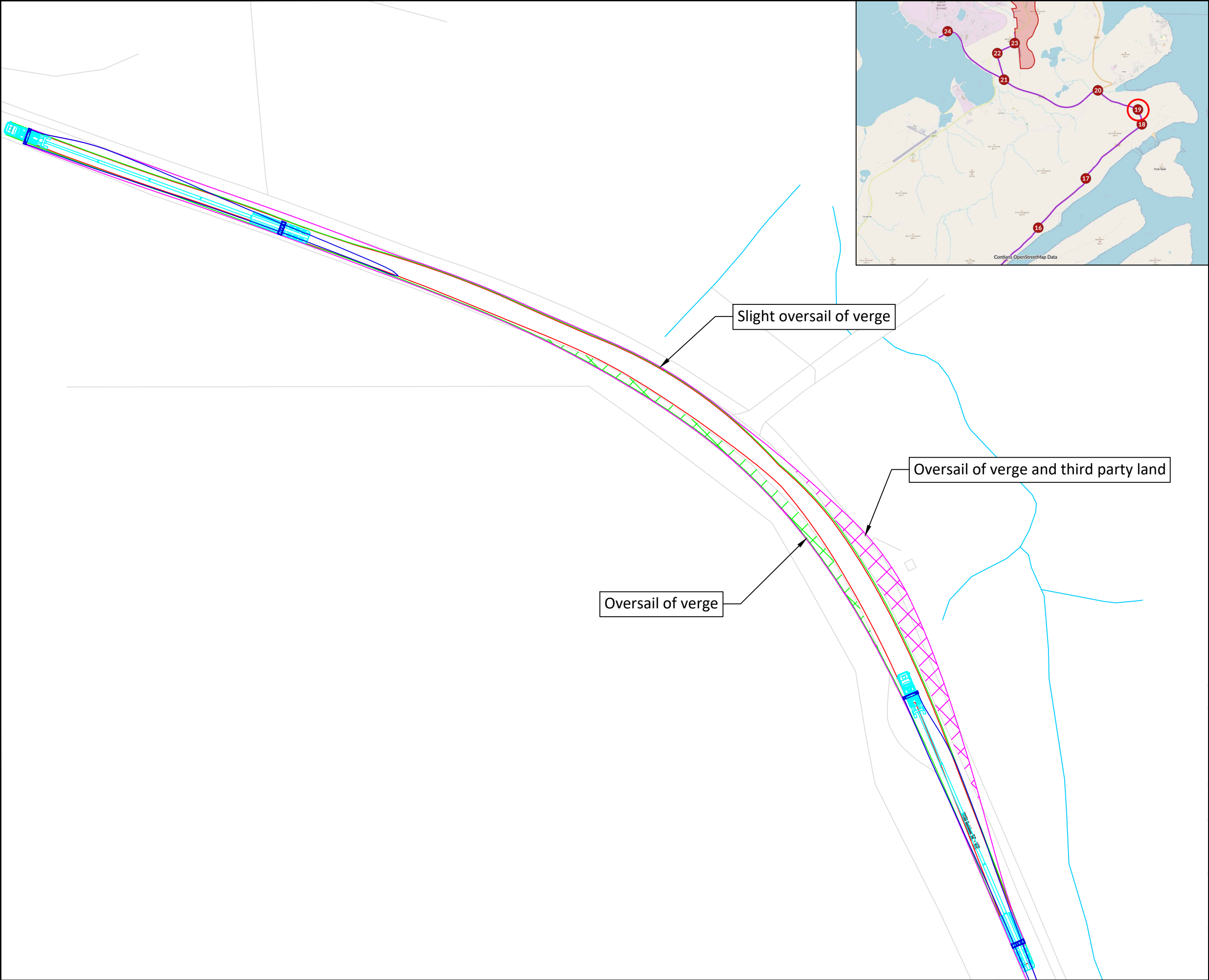
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Client
Ramboll

Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 18

Drawn	Checked	Approved
TF	ADV	ADV
Original dtp. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information	Drawing Number GB01T24110/2001/SPA021	Rev. -



Notes:

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- All dimensions in metres unless otherwise stated.
- Please note that marked service locations are indicative only and should be confirmed by topographical survey.

Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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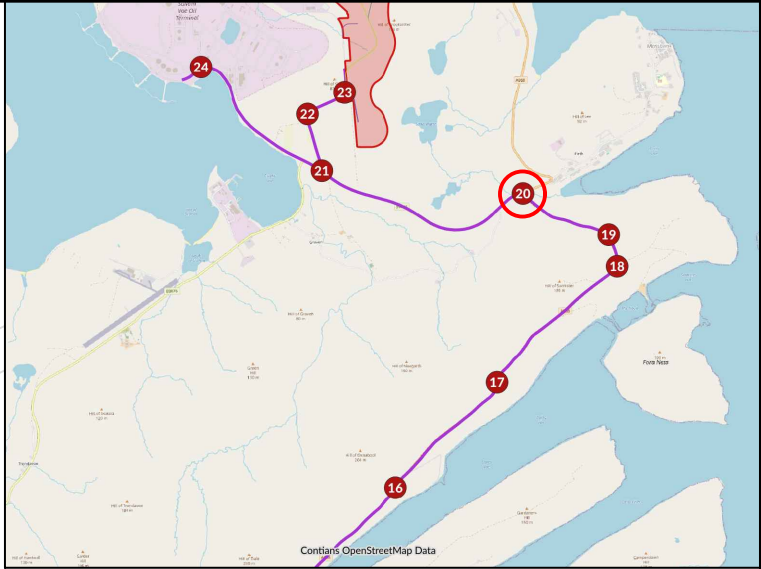
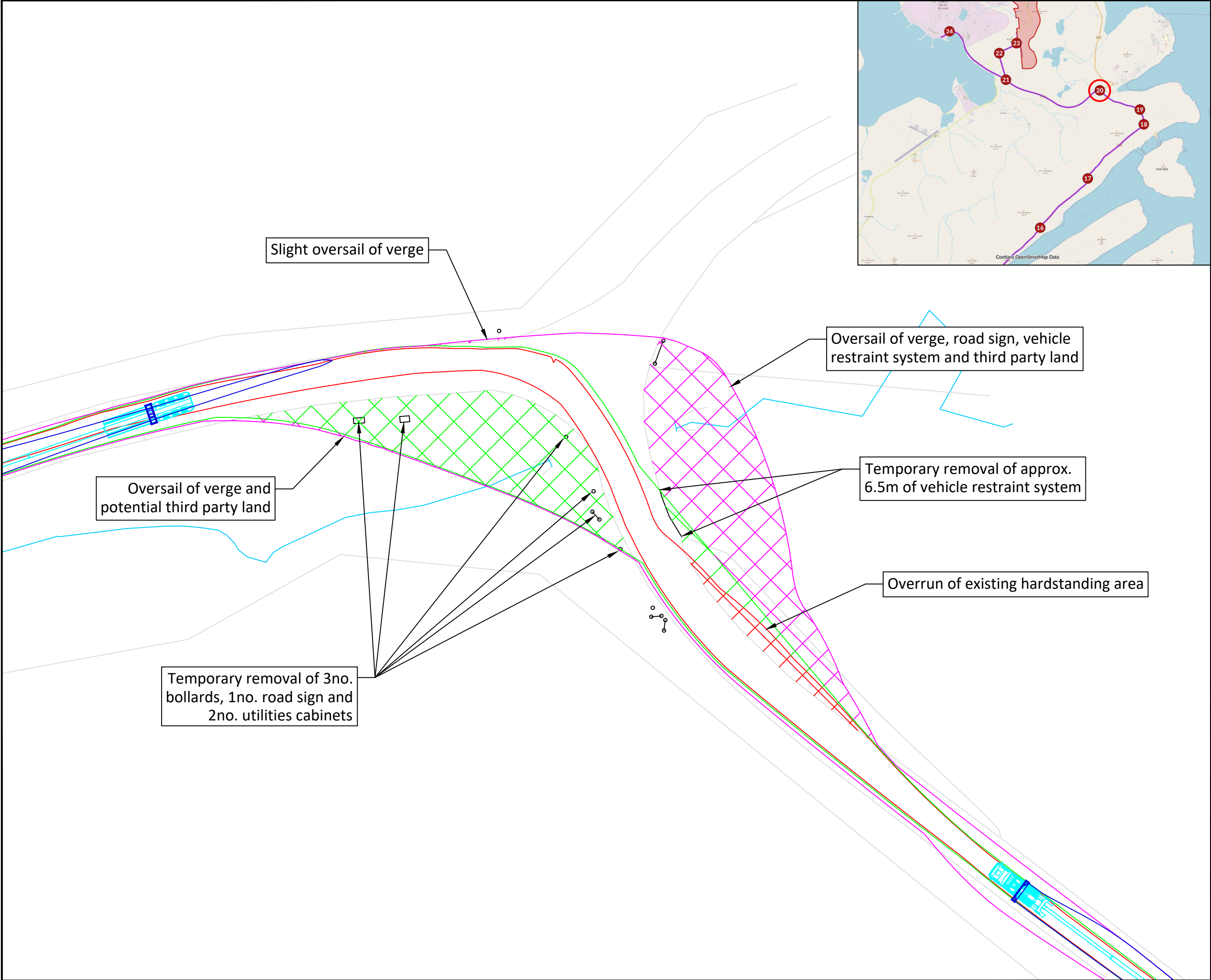
Project

Neshion Energy Park
Swept Path Assessment

Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 19

Drawn	Checked	Approved
TF	ADV	ADV
Original dtp. size	Date	Scale
A3	13/04/2026	1:750
Drawing Status	Drawing Number	Rev.
Information	GB01T24110/2001/SPA022	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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Project

Neshion Energy Park
Swept Path Assessment

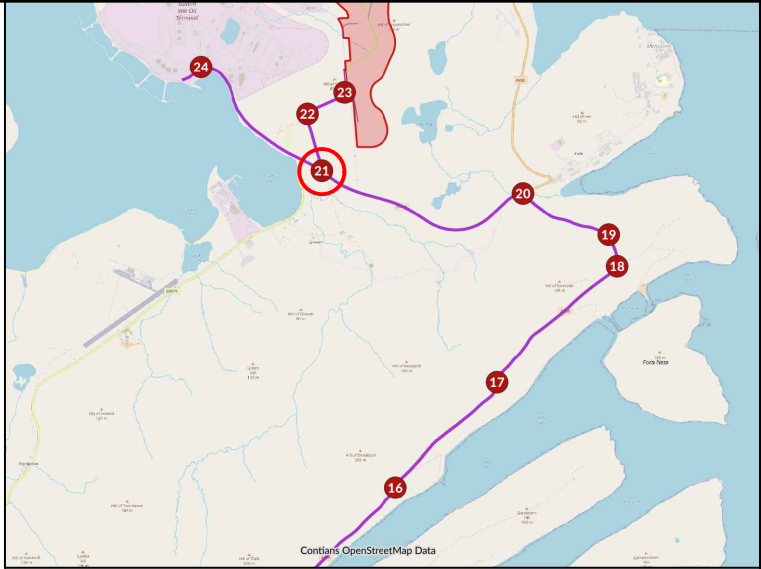
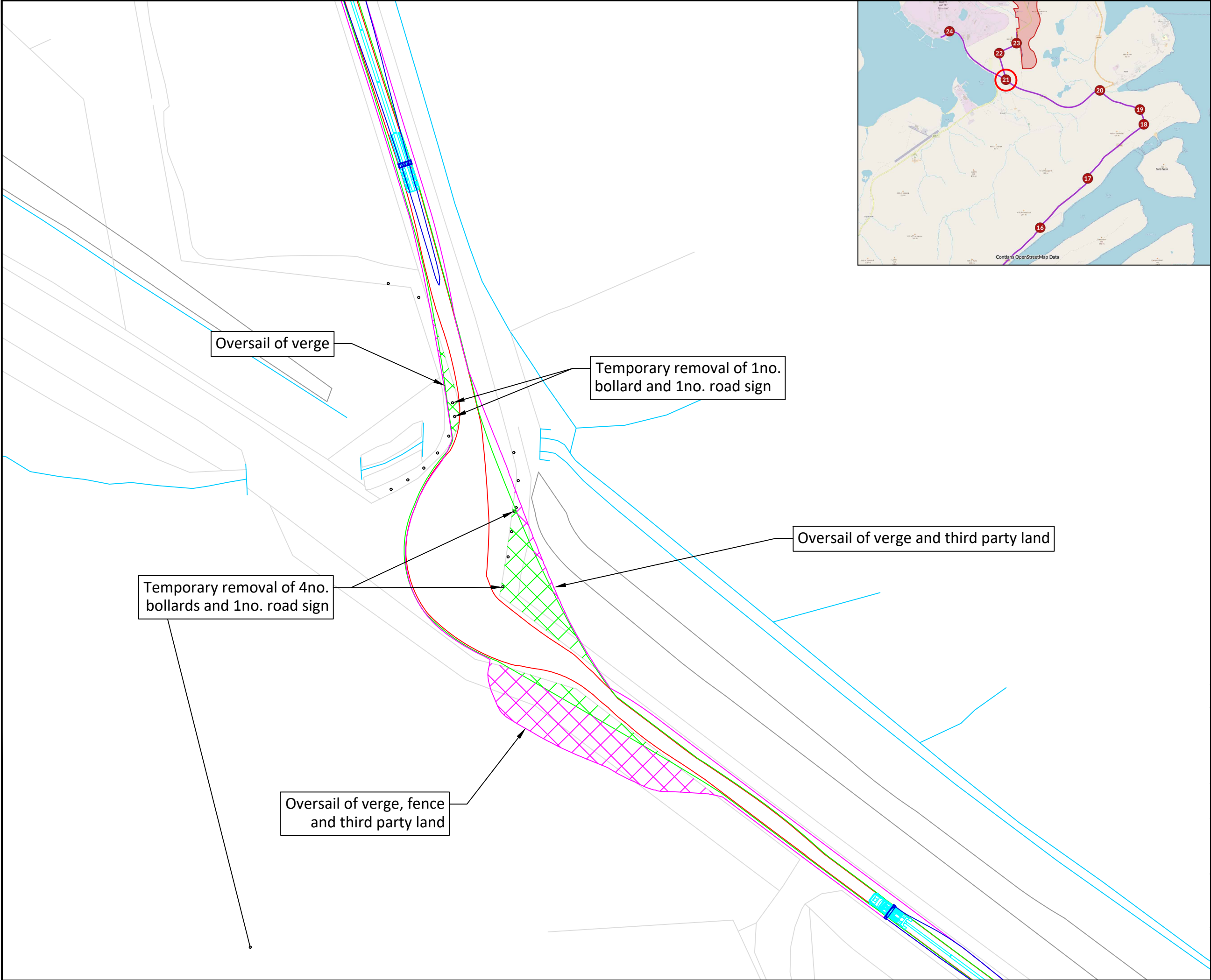
Title

Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 20
Manual Override Rear Steering Utilised

Drawn	TF	Checked	ADV	Approved	ADV
Original dtp. size	A3	Date	13/04/2026	Scale	1:500
Drawing Status	Information	Drawing Number	GB01T24110/2001/SPA023	Rev.	-

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- Please note that marked service locations are indicative only and should be confirmed by topographical survey.

Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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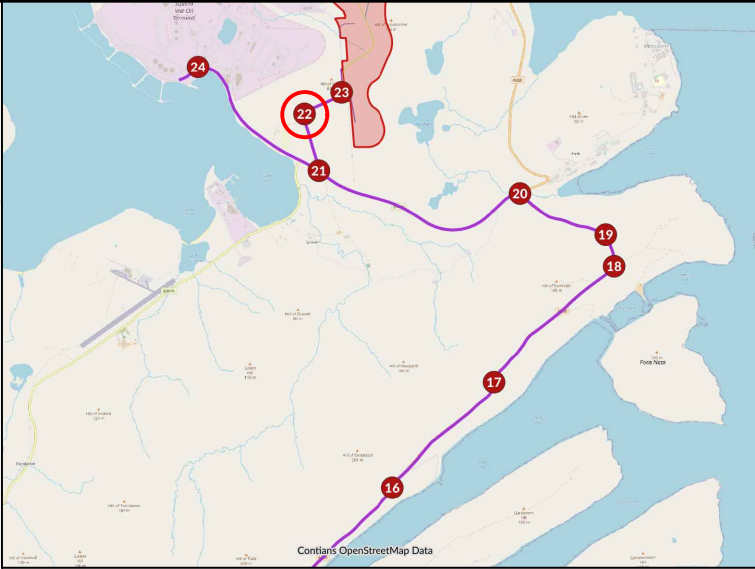
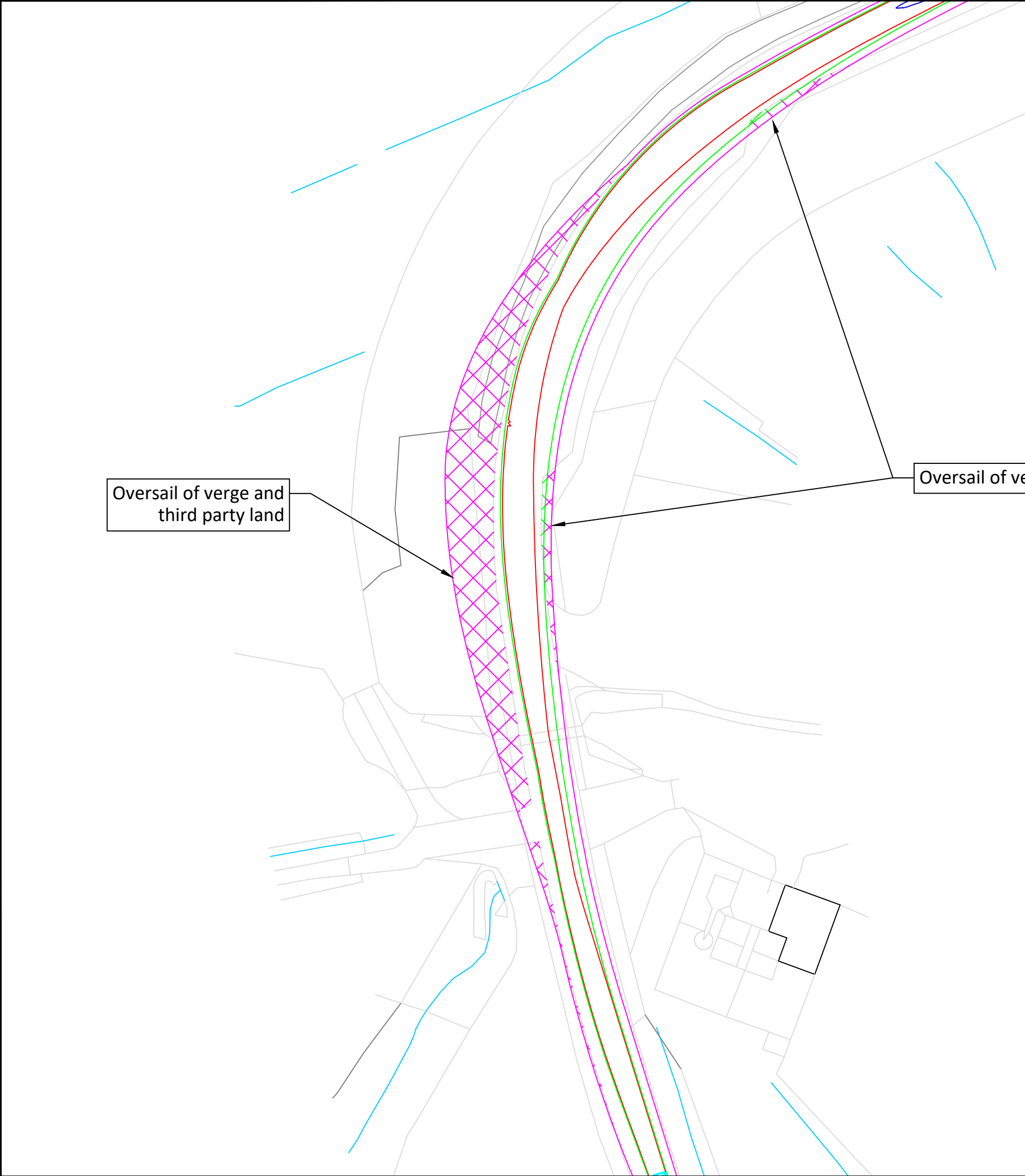
Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 21 - From East
Manual Override Rear Steering Utilised

Drawn	Checked	Approved
TF	ADV	ADV

Original dwg. size	Date	Scale
A3	13/04/2026	1:750

Drawing Status	Drawing Number	Rev.
Information	GB01T24110/2001/SPA024	-



Notes:

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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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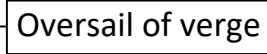
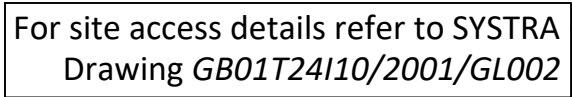
Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 22

Drawn TF	Checked ADV	Approved ADV
Original dwg. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information		Rev. -

Drawing Number
GB01T24110/2001/SPA025

Rev.
-



- 

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

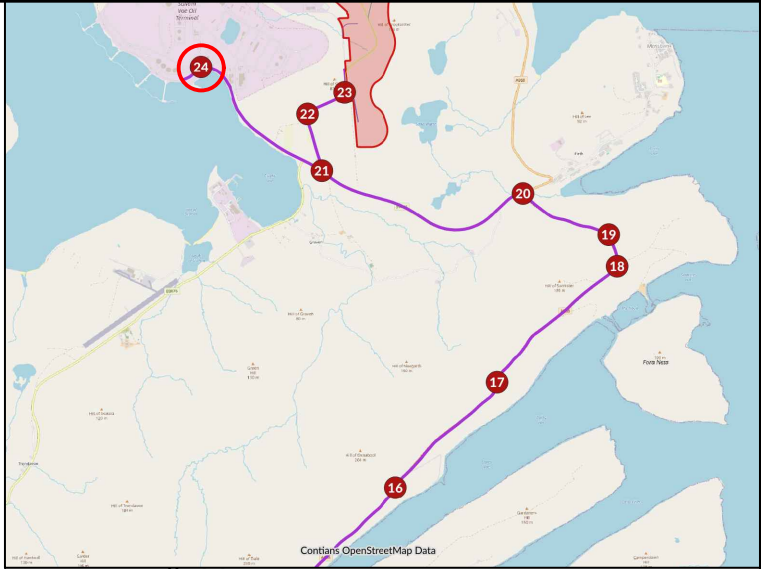
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Project

Neshion Energy Park
Swept Path Assessment

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size	Date	Scale
A3	13/04/2026	1:750
Drawing Status	Drawing Number	Rev.
Information	GB01T24110/2001/SPA026	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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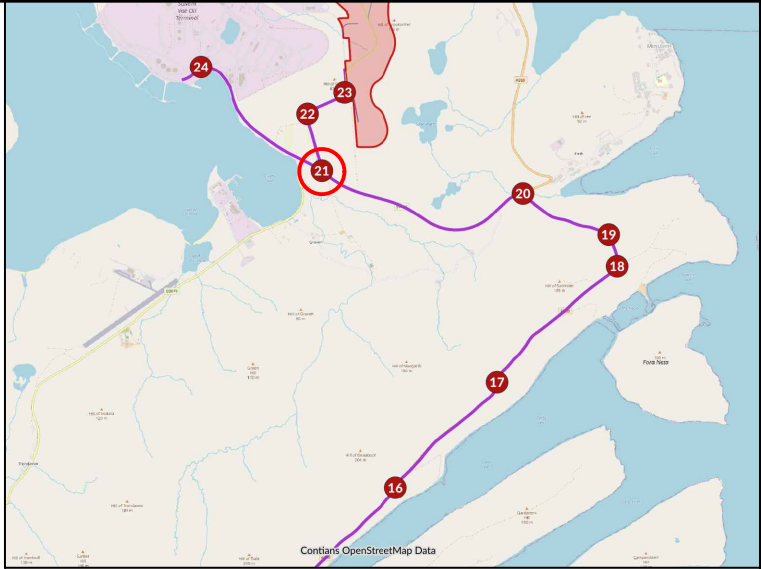
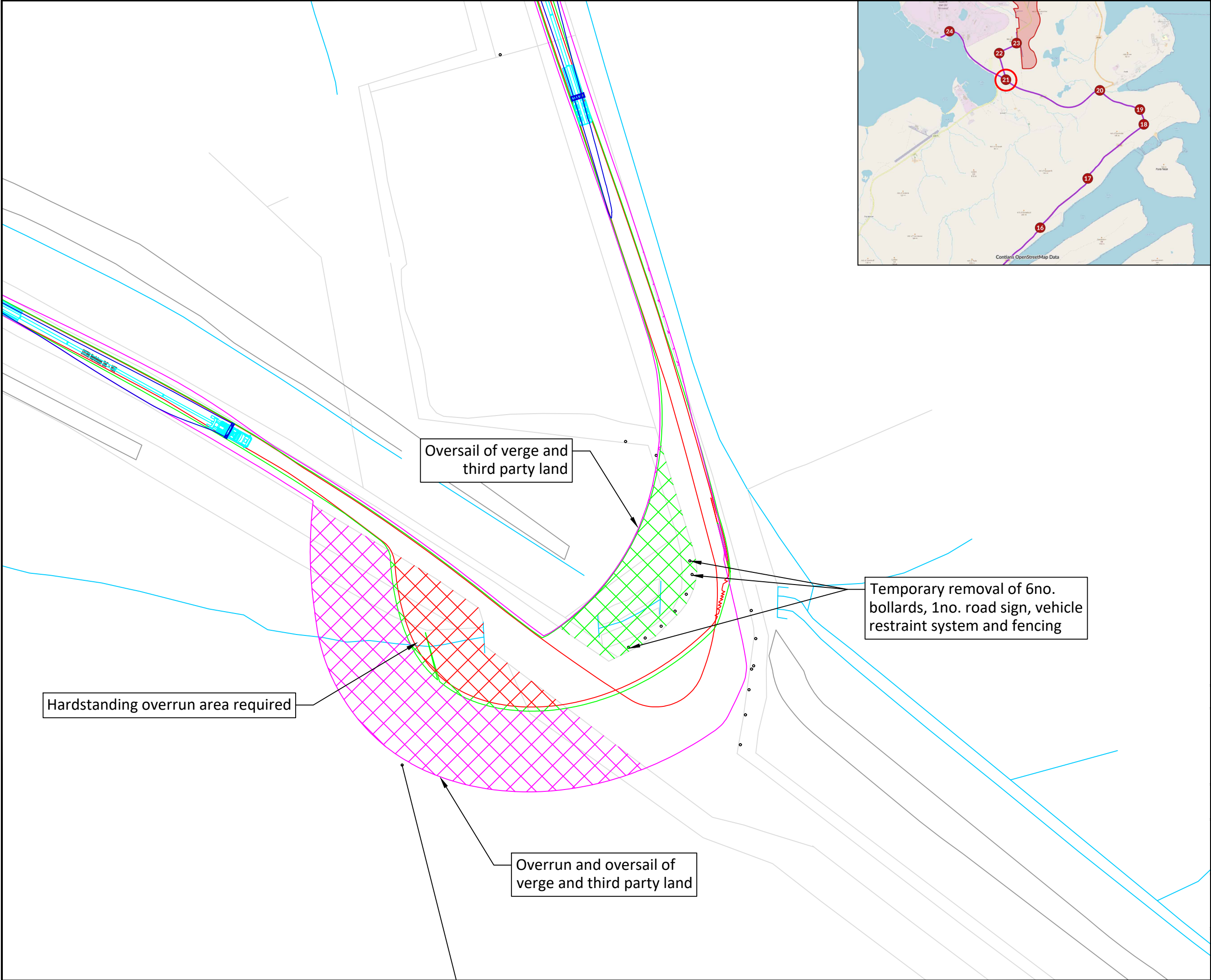
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Project
Neshion Energy Park
Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 24

Drawn	Checked	Approved
TF	ADV	ADV
Original dtd. size	Date	Scale
A3	13/04/2026	1:750
Drawing Status	Drawing Number	Rev.
Information	GB01T24I10/2001/SPA027	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
- Over-run envelope of tractor and trailer wheels
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Rev.	Date	Revision details	Drawn	Checked	Approved

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Project
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Swept Path Assessment

Title
Vestas V172 (84.35m Length) Blade
Nooteboom Super Wing Carrier
Pinch Point 21 - From West
Manual Override Rear Steering Utilised

Drawn	Checked	Approved
TF	ADV	ADV
Original dwg. size A3	Date 13/04/2026	Scale 1:750
Drawing Status Information	Drawing Number GB01T24110/2001/SPA028	Rev. -

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