Illaunbaun Wind Farm

Reference number GB01T23F60/ALA

18/10/2024

ABNORMAL LOADS ASSESSMENT

SYSTRA

ILLAUNBAUN WIND FARM

ABNORMAL LOADS ASSESSMENT

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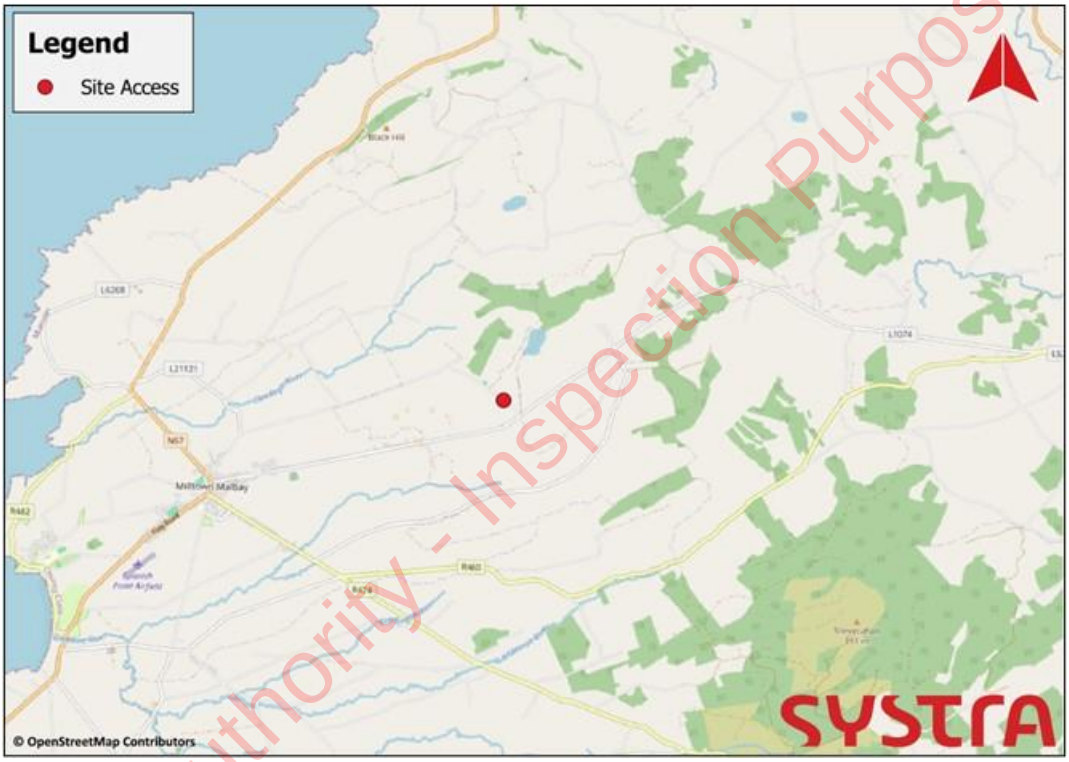
1. INTRODUCTION

1.1 General

1.1.1 SYSTRA has been commissioned by Gavin & Doherty Geosolutions to undertake an assessment of two identified abnormal load routes to the Illaunbaun Wind Farm site. The site is located within County Clare whilst the identified routes also pass through County Limerick and County Galway. The approximate site location is indicated by **Figure 1**.

Figure 1. Site Location



1.1.2 The site access is approximately 4.2km to the east of Milltown Malbay and 7.2km south of Lahinch. The site sits to the south of the L1074 road which runs between the R460 in the east and Milltown Malbay in the west.

1.1.3 The turbine components would be landed at either the existing Foynes Port or Galway Harbour facilities, both of which have previously supported the development of onshore wind farms.

1.2 Turbine Transport Requirements

1.2.1 The candidate turbine for the Illaunbaun Wind Farm is the Vestas V117 turbine. For the purposes of this assessment the turbine blade has been assessed as the “worst-case” design component.

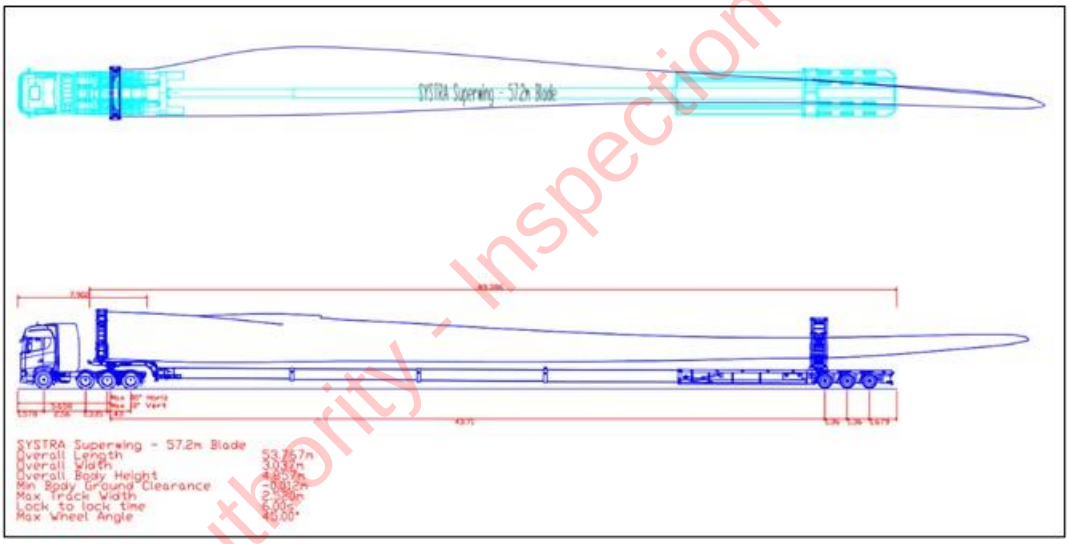
Blade Transporter

1.2.2 The turbine blade of the V117 is 57.2m in length and would be loaded onto a specialised blade trailer. For the purposes of assessment, it has been assumed that the Turbine Delivery Vehicle (TDV) would compose of a tractor unit, intermediate dolly and a Noteboom Super Wing Carrier Trailer.

1.2.3 The Super Wing Trailer incorporates pendle axles which allow for a secondary rear wheel angle of up to 55 degrees. The Super Wing trailer can be extended to 64.3m in length. For this assessment is has been assumed that the trailer would be retracted by 15m for a length of 49.3m. This assumption is based on the loading configuration of other wind turbine blade components. In total the TDV is ~61.7m in length. The turbine blade would overhang the end of the trailer by ~8.2m.

1.2.4 A drawing of the TDV is provided in **Appendix A** and at **Figure 2** below.

Figure 2. Turbine Delivery Vehicle



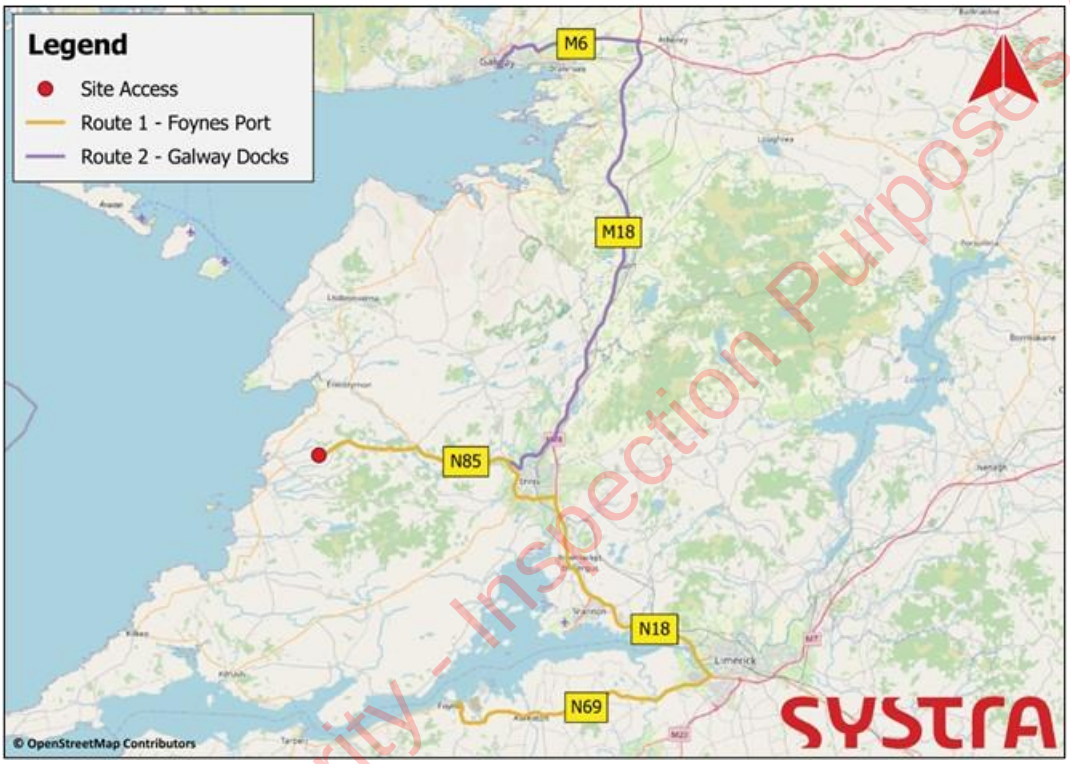
1.2.5 At this stage in the design process, the haulier of the wind turbine blades is not yet known, nor the exact specifics of the vehicles that they will use. However, from experience of previous developments, and from the details of the components to be moved, it is possible to estimate (with some degree of accuracy) the specifics of the design vehicles that will be used to allow a detailed and accurate route assessment to be undertaken.

1.2.6 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 vehicle for the transportation of the blades are extendable so on delivery of the abnormal load, the trailer 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 likely to be either Foynes Port or Galway Harbour. The facilities have both been used for the transportation of renewable components in the past. The assessed routes to site are indicated by **Figure 3** below.

Figure 3. Assessed Abnormal Loads Route



1.3.2 The identified abnormal load routes are set out in **Table 1.**

Table 1. Abnormal Loads Route Sections

SECTION	CUMULATIVE DISTANCE (KM)	
	Route 1	Route 2
Leave Foynes Port via Dock Road to the east	0.0	-
Turn left onto the N69	1.8	-
At the Dock Road West Roundabout take the 2nd exit onto the N18 slip road	33.9	-
At J12 of the M18 exit onto the N85	64.3	-
Exit Galway Harbour onto Lough Atalia Road	-	0.5
Bear left onto College Road	-	1.9
Continue straight onto the R339	-	2.0
Turn left at the R339 / Connolly Avenue junction	-	2.9
Turn right onto Tuam Road	-	3.2
Turn right onto the N6	-	3.5
At the Rathmorrisy Interchange take the 3rd exit onto the M18 south	-	18.3
At J14 of the M18 exit onto the R458	-	68.1
Turn right onto Ballyalla Grove	-	71.8
Turn left onto the unclassified road	-	71.9
At the Drumcliffe Road crossroads turn right onto the L4180	-	74.8
Turn right onto the N85	-	76.5
Turn left onto the R460 at Inagh	86.0	88.1
Bear right onto the L1074	90.3	92.4
Turn right onto Slievenalicka	98.0	100.1
Turn right into Site Access	98.5	100.6

2. SWEPT PATH ASSESSMENT

2.1 Pinch Points

2.1.1 In total, there are 18 Pinch Points between Foynes Port and where the two routes meet at the N85 and L4180 junction. There are 16 Pinch Points between Galway Harbour and the convergence point. There are then a further 18 Pinch Points which the two routes have in common. The location of the Pinch Points that have been identified and assessed are indicated by **Figures 4 to 12** below.

Figure 4. PPs at Foynes Port

Figure 5. PPs East of Limerick

Figure 6. PPs on N85 Ennis Western Relief Road

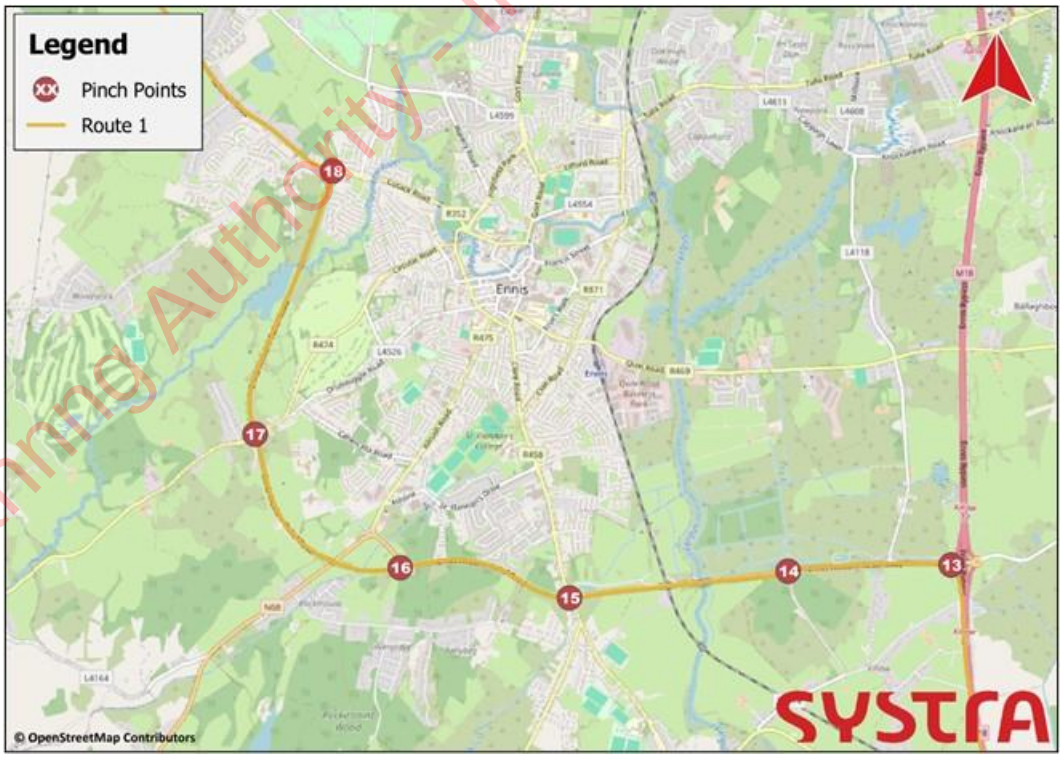


Figure 7. PPs West of Ennis

Figure 8. PPs on R460

Figure 9. PPs Near Site Access

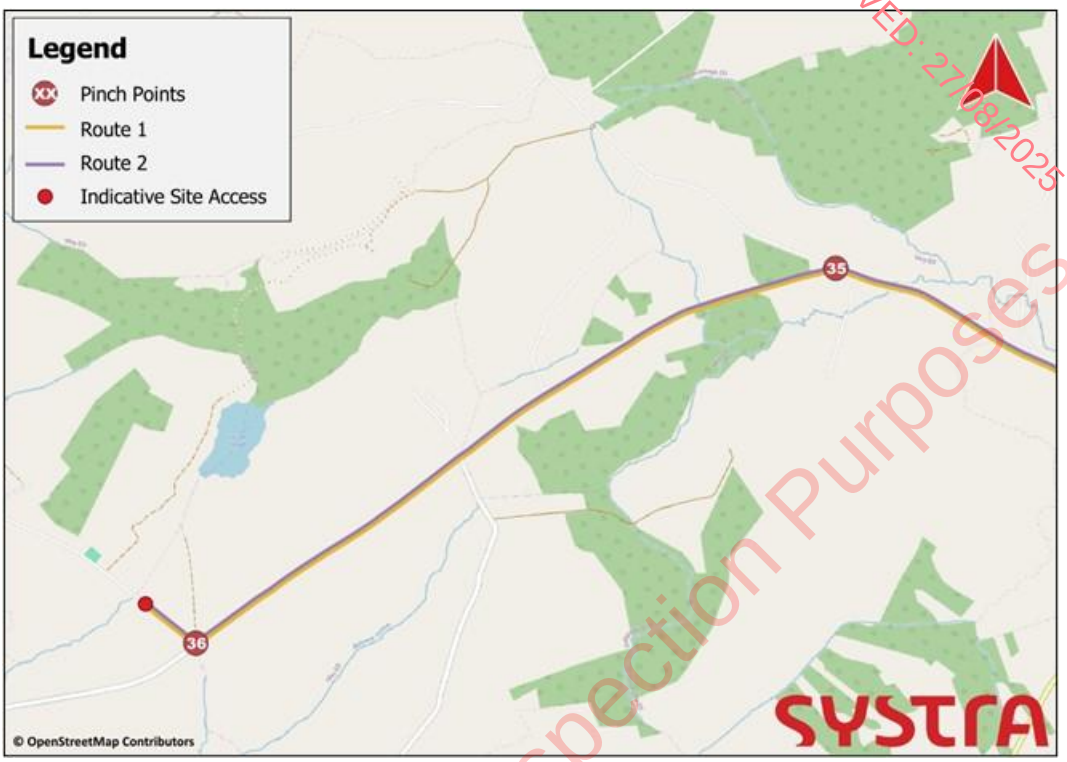
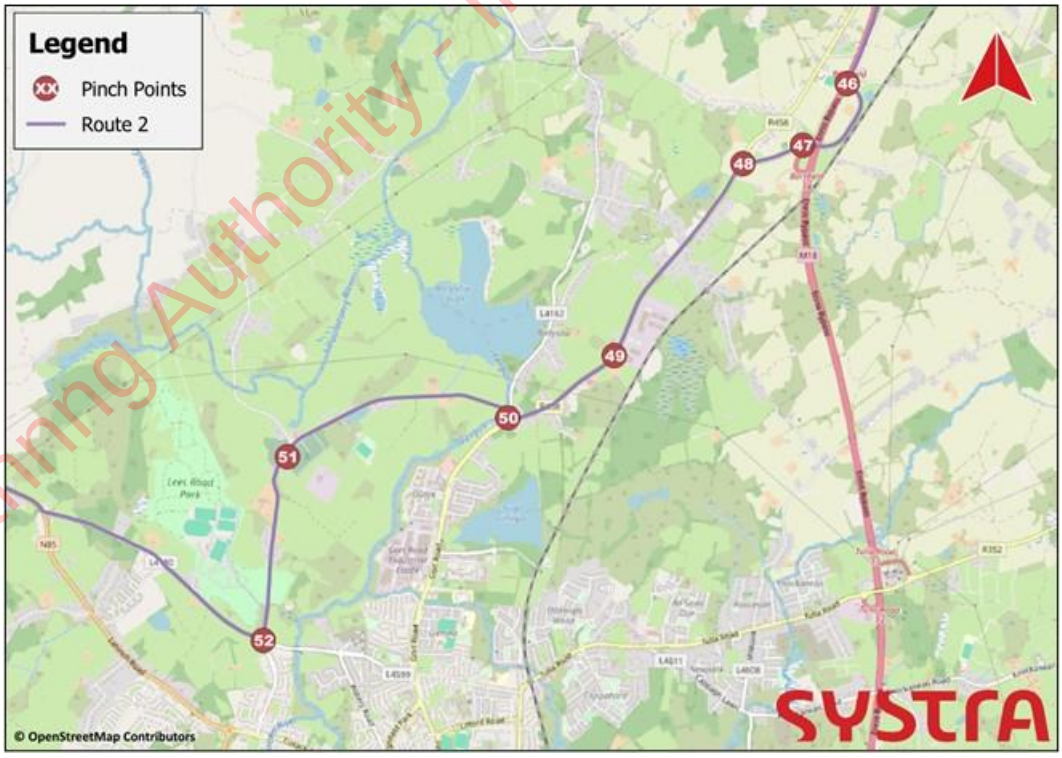


Figure 10. PPs in Galway

Figure 11. PP at Rathmorrisy Interchange

Figure 12. PPs North of Ennis



2.1.2 The swept path plans are contained within **Appendix A**. The plans indicate areas of overrun and over-sail, as well as highlighting potential clashes with street furniture and requirements for third-party land.

2.1.3 The base mapping utilised in these plans is an extract from Tailte Éireann's Digital Landscape Model. In urban areas, the distinction between carriageway, footways and verges areas is typically shown, however in rural areas typically only the extent of the adopted highway boundary is shown, i.e. no distinction between carriageway and verges.

2.1.4 Where possible, during the assessment process, the base mapping was supplemented by aerial mapping with the aim of keeping the TDV within the carriageway extents. While every effort has been made to report any instances of the TDV travelling outwith the carriageway extents, without a detailed survey, the swept path assessment is an estimate at this stage. Although the extent of third party land agreements is unlikely to be affected.

2.1.5 **Table 2** 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
01	**Bends in Dock Road leaving Foynes Port**	52.61447	-9.09469	• None	• None - wheels of vehicle remain within carriageway.	• None
02	**Left-hand turn onto N69**	52.60478	-9.09497	• Overhead cables – height to be checked but should be unaffected	• Use of existing overrun area subject to permissions on inside of turn.	• None
03	**Left-hand bend in N69 at R521 junction**	52.59479	-9.08880	• None	• None – wheels of vehicle remain within carriageway.	• None
04	**Left-hand bend in N69 south of L6052 junction**	52.59629	-9.05295	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
05	**Right-hand bend in N9 at Curraghchase**	52.61846	-8.87959	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
06	**Right-hand bend in N69 at L1241 junction**	52.62781	-8.84042	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
07	**Right-hand bend in N69 at Kildimo**	52.62382	-8.81281	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
08	**Narrow bridge over River Maigue**	52.61972	-8.76518	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
09	**Right-hand bend in N69 at Massy's Bridge**	52.62885	-8.74751	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
10	**Roundabout on N69 at Clarina**	52.63194	-8.73332	• 1no. chevron sign	• Use of existing overrun area in roundabout central island subject to permissions and reinstatement	• None
11	**Left-hand bend in N69 at Mungret**	52.63583	-8.69515	• None	• None – wheels of vehicle remain within carriageway.	• None
12	**Dock Road West Roundabout at J2 of N18**	52.64553	-8.67253	• 1no. chevron sign	• Use of existing overrun area within roundabout central island subject to permissions and reinstatement	• None
13	**Killow West Roundabout at J12 of M18**	52.82723	-8.93960	• None	• None – wheels of vehicle remain within carriageway.	• None
14	**Roundabout on N85**	52.82672	-8.95582	• 1no. chevron sign	• New hardstanding overrun area required within roundabout central island.	• None
15	**Roundabout on N85 at R458**	52.82493	-8.97757	• 1no. chevron sign	• New hardstanding overrun area required across roundabout central island	• None
15 Alt	**Roundabout on N85 at R458**	52.82493	-8.97757	• 1no. chevron sign	• None – wheels of vehicle just remain within carriageway extents.	• None

PP	LOCATION	LAT	LONG	STREET FURNITURE REMOVAL	TEMPORARY PAVING / GRADING WORKS	3RD PARTY LAND REQUIREMENTS
16	**Roundabout on N85 at N68**	52.82662	-8.99448	• 1no. chevron sign • 1no. road sign • Section of guard rail	• New hardstanding overrun area required across roundabout central island.	• None
17	**Roundabout on N85 at Golf Links Road**	52.83454	-9.00913	• 1no. chevron sign • 2no. traffic signs	• New hardstanding overrun area required across roundabout central island • Transition ramps to enable TDV to mount kerb	• None
18	**Roundabout on N85 at Cusack Road**	52.85048	-9.00176	• 1no. chevron sign • 4no. traffic signs	• New hardstanding overrun area required within roundabout central island	• None
19	**Left-hand bend in N85 at L4180 junction**	52.86349	-9.02063	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
20	**Tight right-hand bend in N85**	52.86315	-9.05065	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
21	**Left-hand bend in N85**	52.86669	-9.05923	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
22	**Right-hand bend in N85**	52.86586	-9.06531	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
23	**Left-hand bend in N85**	52.86642	-9.07069	• None	• None – wheels of vehicle remain within carriageway.	• None
24	**Right-hand bend in N85**	52.86405	-9.07731	• 3no. chevron signs	• None – wheels of vehicle remain within carriageway.	• None
25	**Left-hand bend in N85**	52.86456	-9.08033	• None	• None – wheels of vehicle remain within carriageway.	• None
26	**Right-hand bend in N85 at L4144**	52.86332	-9.08466	• None	• None – wheels of vehicle remain within carriageway.	• None
27	**Left-hand bend in N85**	52.86324	-9.08794	• None	• None – wheels of vehicle remain within carriageway.	• None
28	**Bends in N85 adjacent to properties**	52.86152	-9.09326	• None	• None – wheels of vehicle remain within carriageway.	• None
29	**Left-hand bend in N85**	52.86389	-9.11291	• None	• None – wheels of vehicle remain within carriageway.	• None
30	**Left-hand turn onto R460 at Inagh**	52.87742	-9.17506	• 1no. stop sign • 1no. lighting column • Removal of wall • Temporary suspension of car parking	• None anticipated	• None anticipated

PP	LOCATION	LAT	LONG	STREET FURNITURE REMOVAL	TEMPORARY PAVING / GRADING WORKS	3RD PARTY LAND REQUIREMENTS
31	**Bend in R460**	52.87333	-9.21076	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
32	**S-bend in R460**	52.87374	-9.21798	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
33	**Bends in R460**	52.87528	-9.22415	• Overhead cables – height to be checked	• None – wheels of vehicle remain within carriageway.	• None
34	**Right-hand turn onto L1074**	52.87379	-9.23520	• 1no. traffic sign	• None – wheels of vehicle remain within carriageway.	• None
35	**Tight left-hand bend in L1074**	52.88171	-9.29393	• Overhead cables – height to be checked • Hedge to be trimmed	• None – wheels of vehicle remain within carriageway.	• None
36	**Right-hand turn onto Slievenalicka**	52.86514	-9.33880	• Overhead cables – height to be checked	• New hardstanding overrun area required on outside of turn.	• Yes – required for overrun area
37	**Right-hand turns onto Lough Atalia Road**	53.26977	-9.04697	• Unclear at this time – to be handled by Galway Harbour	• None	• All land likely under harbour control
38	**Right-hand bend following Moneenageisha Cross**	53.28257	-9.03307	• 4no. bollards	• None – wheels of vehicle remain within carriageway.	• None
39	**Left-hand turn onto Unclassified Road**	53.28619	-9.02372	• None	• None – wheels of vehicle remain within carriageway.	• None
40	**Right-hand turn onto Tuam Road**	53.28901	-9.02279	• None	• None – wheels of vehicle remain within carriageway.	• None
41	**Right-hand turn onto the N6**	53.29075	-9.01986	• 2no. signal heads • 3no. bollards • 1no. traffic sign • Guard railing	• None – wheels of vehicle remain within carriageway.	• None
41 Alt	**Right-hand turn onto the N6 (contra-flow)**	53.29075	-9.01986	• None	• None – wheels of vehicle remain within carriageway.	• None
42	**Tight bend in N6 at R865**	53.28868	-9.01252	• None	• None – wheels of vehicle remain within carriageway.	• None
43	**Right-hand bend in N6 at R339**	53.29177	-8.98607	• None	• None – wheels of vehicle remain within carriageway.	• None
44	**Left-hand turn at Coolagh Roundabout**	53.28605	-8.97928	• None	• None – wheels of vehicle remain within carriageway.	• None
45	**Right-hand turn at Rathmorrissy Interchange**	53.29734	-8.80699	• 2no. traffic signs • 1no. lighting column	• None – wheels of vehicle remain within carriageway.	• None

PP	LOCATION	LAT	LONG	STREET FURNITURE REMOVAL	TEMPORARY PAVING / GRADING WORKS	3RD PARTY LAND REQUIREMENTS
46	**Left-hand turn from M18 at J14**	52.88998	-8.94101	• 2no. lighting columns • 1no. traffic sign • Bollards on centreline	• None but possible re-grading of banking required to facilitate over-sail.	• None
47	**Barefield Roundabout on Unclassified Road**	52.88623	-8.94537	• Bollards on centreline • 2no. chevron signs	• New hardstanding overrun area required across roundabout central island	• None
48	**Barefield South Roundabout on R458**	52.88507	-8.95129	• None	• New hardstanding overrun area required across roundabout central island	• None
49	**Roundabout on R458 at Ballymaley Business Park**	52.87338	-8.96388	• 3no. traffic signs • 1no. bollard	• New hardstanding overrun area required to roundabout central roundabout • Transition ramps required to enable TDV to mount kerb • Raised roundabout island to be removed	• None
50	**Tight right- and left-hand turn onto L1098**	52.86954	-8.97442	• 2no. utility poles • 2no. traffic signs	• Small area of hardstanding required on inside of bend • New bridge over River Fergus likely required	• Yes – over-sail into likely third-party land
				TDV required to reverse to navigate Pinch Point. This is technically achievable but likely to be challenging in practice. Additionally, narrow and likely very weak bridge.		
51	**Bends in narrow road at Drumcliffe Cemetery**	52.86701	-8.99634	• 1no. traffic sign • 1no. chevron sign • 2no. short sections of stone wall	• None – wheels of vehicle remain within carriageway.	• Yes – over-sail of chassis into likely third-party land at two locations
52	**Right-hand turn onto L4180**	52.85592	-8.9985	• 6no. traffic signs • 2no. utility poles	• Transition ramps required to enable TDV to mount kerb • New hardstanding overrun area required on inside of turn	• Yes – overrun and over-sail into likely third-party land
19	**Right-hand turn onto N85**	52.86349	-9.02063	• None	• None – wheels of vehicle remain within carriageway.	• None
	Alternative route to bypass PP46-52	n/a	n/a	Preliminary investigation of an alternative route to bypass Pinch Points 46 to 52 outlined in the following section.		

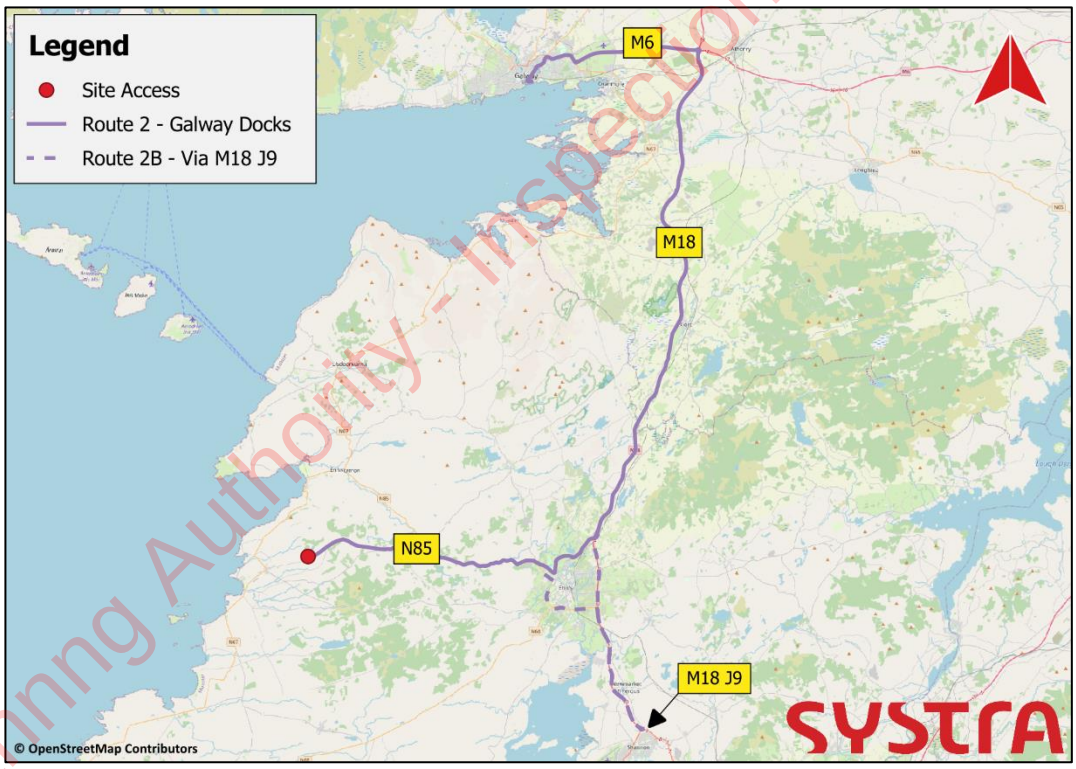
3. ASSESSMENT OUTCOMES AND CONCLUSIONS

3.1 Horizontal Feasibility

3.1.1 The abnormal load assessment has identified that Route 1, from Foynes Port, is technically feasible in terms of horizontal geometry. Due to the tight turns, narrow and weak bridge and narrow road width at Pinch Points 50 and 51, route 2, from Galway Harbour is challenging.

3.1.2 To bypass these Pinch Points an alternative route has been tested. This route would remain on the M18 (instead of coming off at J14 – Pinch Point 46) and use the grade separated roundabout at J9 of the M18, at Shannon, to turn around. Vehicles would then continue back north on the M18 and proceed on the remining section of Route 1. The revised route is indicated by **Figure 13**.

Figure 13. Alternative Alignment of Route 2



3.1.3 This alternative alignment only contains one additional pinch point at J9 of the M18, which has been subject to a swept path assessment. This assessment is contained within **Appendix A** as drawings *GB01T23F60/I/SPA066* to *GB01T23F60/I/SPA071*. The assessment indicates that the route is technically feasible, with no requirement for third party land. The following street furniture would require temporary removal:

- 10no. traffic signs;
- 1no. chevron sign; and
- 7no. lighting columns.

3.1.4 An alternative route to bypass Pinch Point 50 and 51 via Gort Road and Drumcliffe Road was also considered but was not considered to be feasible due to the Drumcliffe Road bridge crossing over the River Fergus. The present bridge is narrow and subject to a 10T weight limit.

3.1.5 No vertical checks have been undertaken at this point, but no major impediments have been identified at this stage. Third party land may be required to facilitate an overrun area to enable the final right-hand turn onto Slievenalicka.

3.2 Identification of Utilities

3.2.1 Where the location of overhead cables (both telecommunications and power transmission) coincides with the location of a Pinch Point, the approximate location of cables and poles have been marked on the drawings contained with **Appendix A**. Further checks should be carried out on site to determine the height of all cables along the route to ensure any risk of collision is mitigated.

3.3 Limerick Tunnel

3.3.1 Route 1 requires the Turbine Delivery Vehicle (TDV) to pass through the Limerick Tunnel. The tunnel has a height restriction of 4.65m. As the loading configuration of the TDV is not yet finalised, SYSTRA cannot comment on the suitability of the use of the Limerick Tunnel. From experience with other loading configurations SYSTRA understand that the use of alterative trailer arrangements, such as the blade being loaded into a 'Clamp and Bogie', can reduce the overall height of the vehicle.

3.3.2 It is recommended that, if they haven't already, discussions are commenced with hauliers and DirectRoute (Limerick) Limited, the operator of the Limerick Tunnel, to determine the feasibility of utilising the tunnel for the transport of turbine components.

3.4 Identification of Bridge Structures

3.4.1 SYSTRA has identified 13 structures on Route 1, between Foynes Port and where the two route meets. A further 14 have been identified on Route 2 between Galway Harbour and where the routes meet and 5 on the common section. The location and type of these structures are shown in **Figure 14**. It is noted that the list is not exhaustive at this stage.

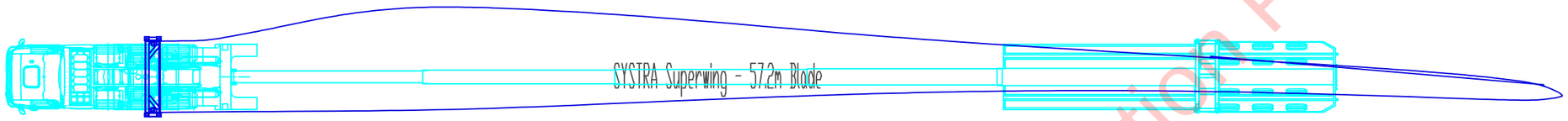
3.4.2 The majority of crossing are over water which variously take the form of multi-span steel beam bridges, multi-arch stone bridges and stone culverts. Discussions will be required with the relevant road authorities to determine whether any structural assessments are required.

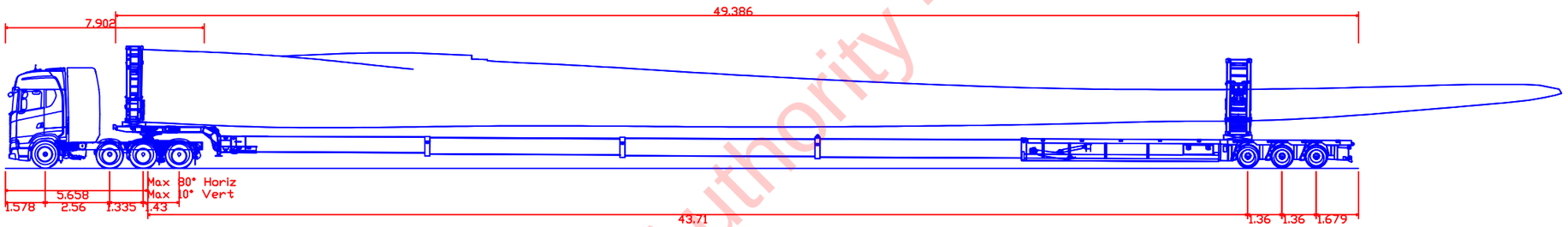
3.4.3 In the first instance, it is recommended that third-party land enquiries are made at the identified location, and it is also recommended that further engagement is undertaken with Galway City Council, Galway County Council, Limerick City and County Council, Transport Infrastructure Ireland and DirectRoute Limerick in relation to the identified route.

3.5 Summary

- If the necessary mitigation measures are made then the route can be navigated by vehicles carrying wind turbine components to the proposed site;
- 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;
- Full carriageway widths must be available along the entirety of the route. Measures to remove parked vehicles must therefore be in place;
- 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 Superwing - 57.2m Blade

Overall Length	53.767m
Overall Width	3.037m
Overall Body Height	4.857m
Min Body Ground Clearance	-0.012m
Max Track Width	2.520m
Lock to lock time	6.00s
Max Wheel Angle	45.00°

Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
3. 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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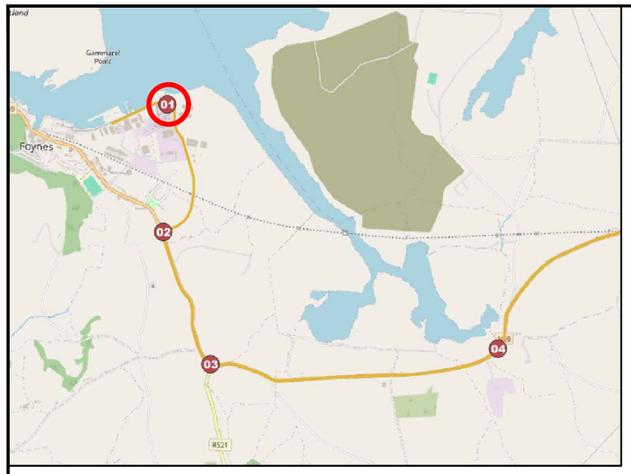
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	NTS
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/VEH001	-



Swept path of vehicle accommodated within adopted highway boundary

Notes:

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

N

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

SYSTRA
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18 Charlotte Square,
Edinburgh,
EH2 4DF

T 0131 460 1847
E scotland@systra.co.uk

Client

Gavin & Doherty Geosolutions

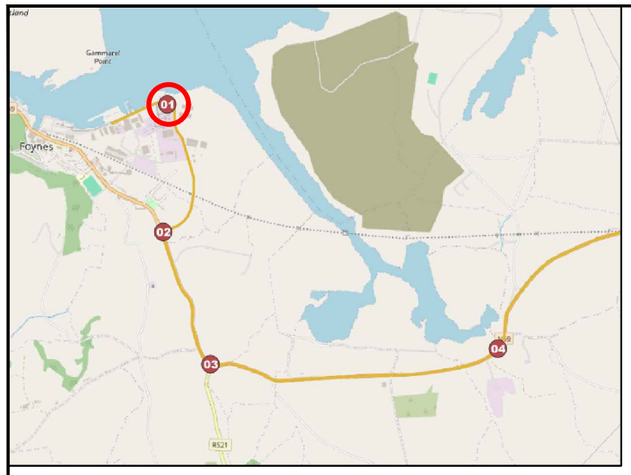
Project

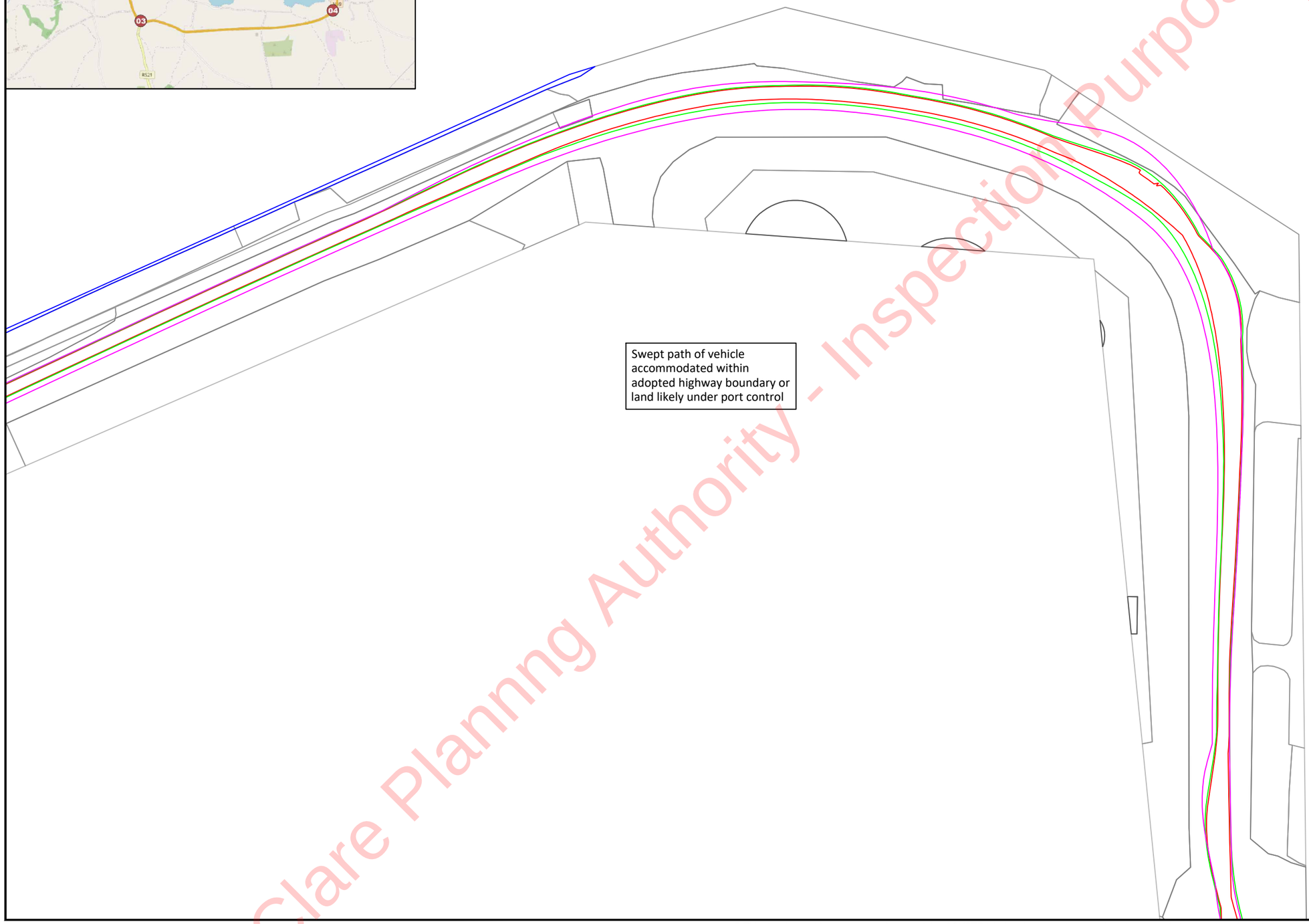
Illaunbaun Wind Farm
Swept Path Assessment

Title

Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 1
Sheet 1 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA001	-





Swept path of vehicle accommodated within adopted highway boundary or land likely under port control

Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

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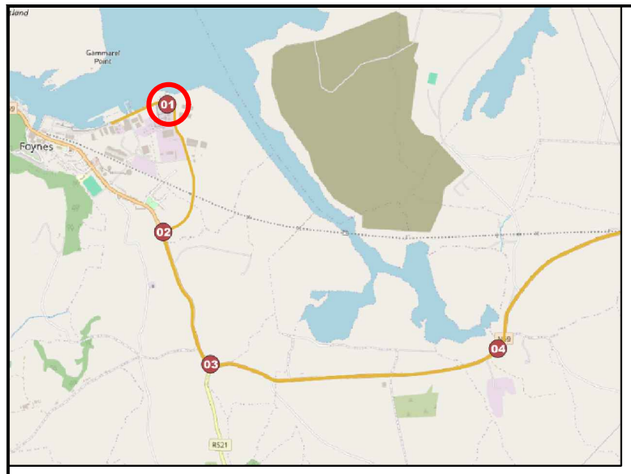
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 1
Sheet 2 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA002	-



Swept path of vehicle accommodated within adopted highway boundary

Notes:

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

N

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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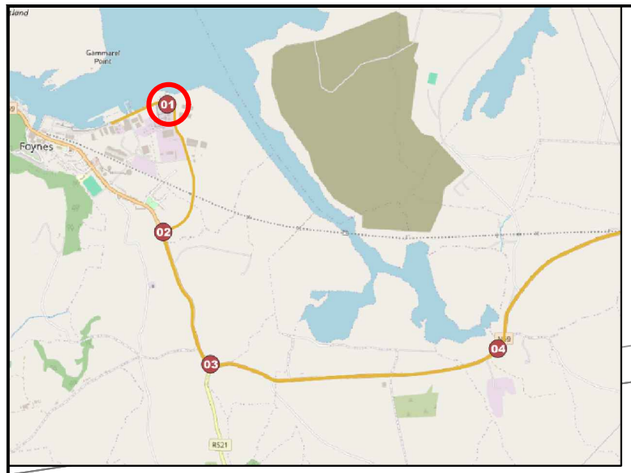
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 1
Sheet 3 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA003	-



Swept path of vehicle accommodated within adopted highway boundary

Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

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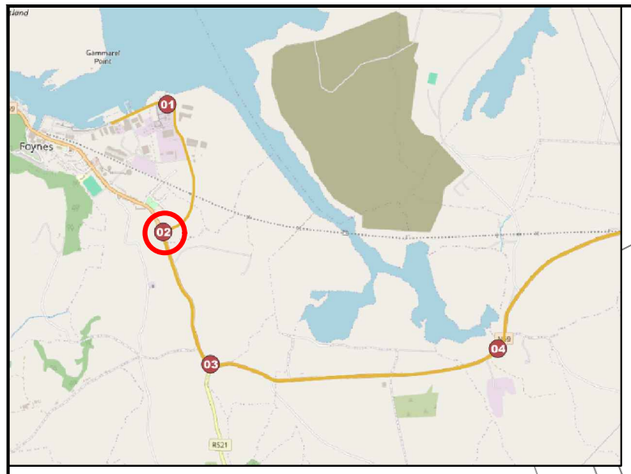
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 1
Sheet 4 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA004	-



Oversail of vege

Manual steering of trailer required

Overrun and oversail of verge - use of existing overrun area subject to permissions

Overhead power transmission cables - height to be checked on site

Notes:

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

N

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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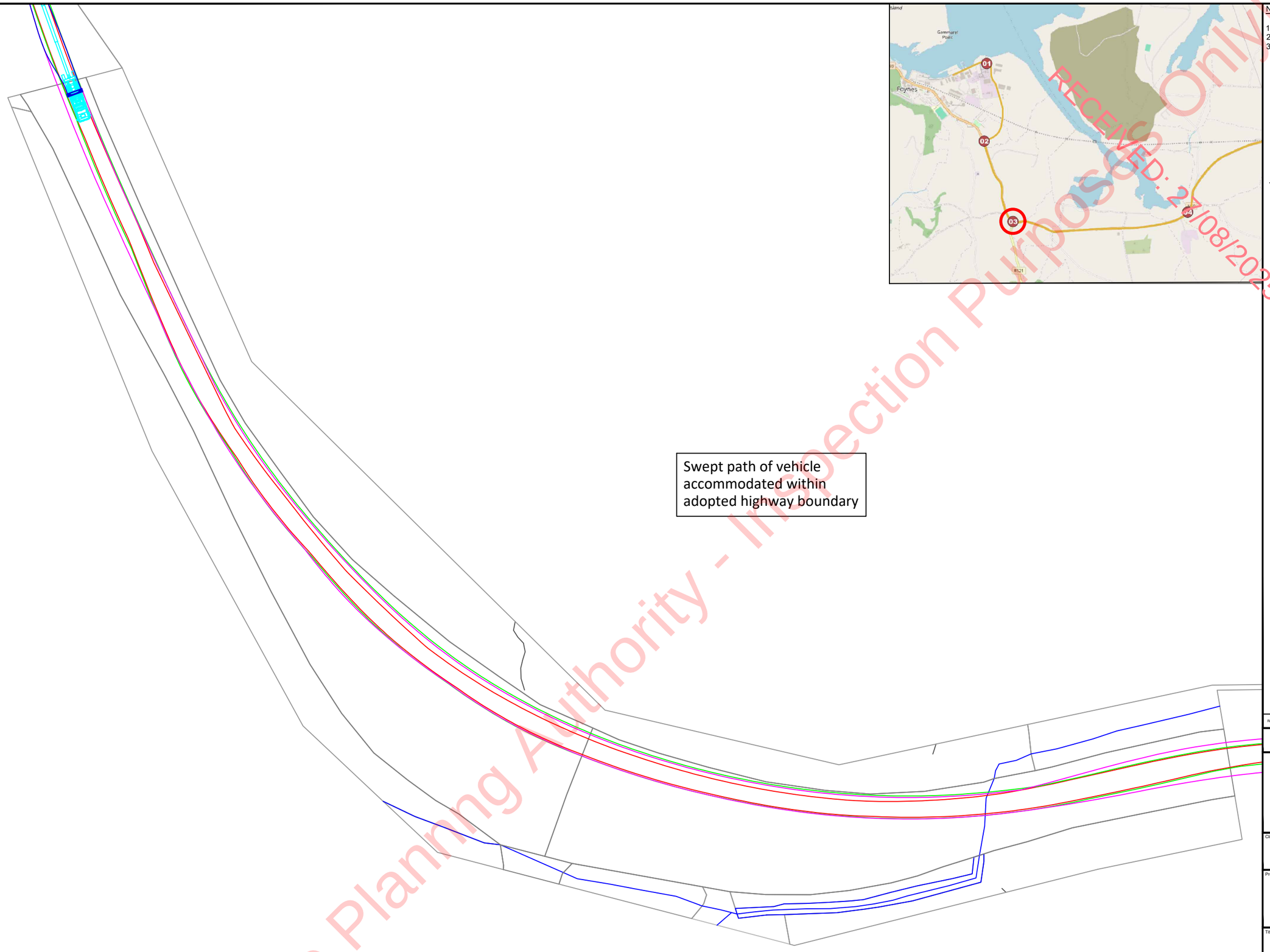
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA005	Rev.: -



Swept path of vehicle accommodated within adopted highway boundary

Notes:

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

N

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

SYSTRA
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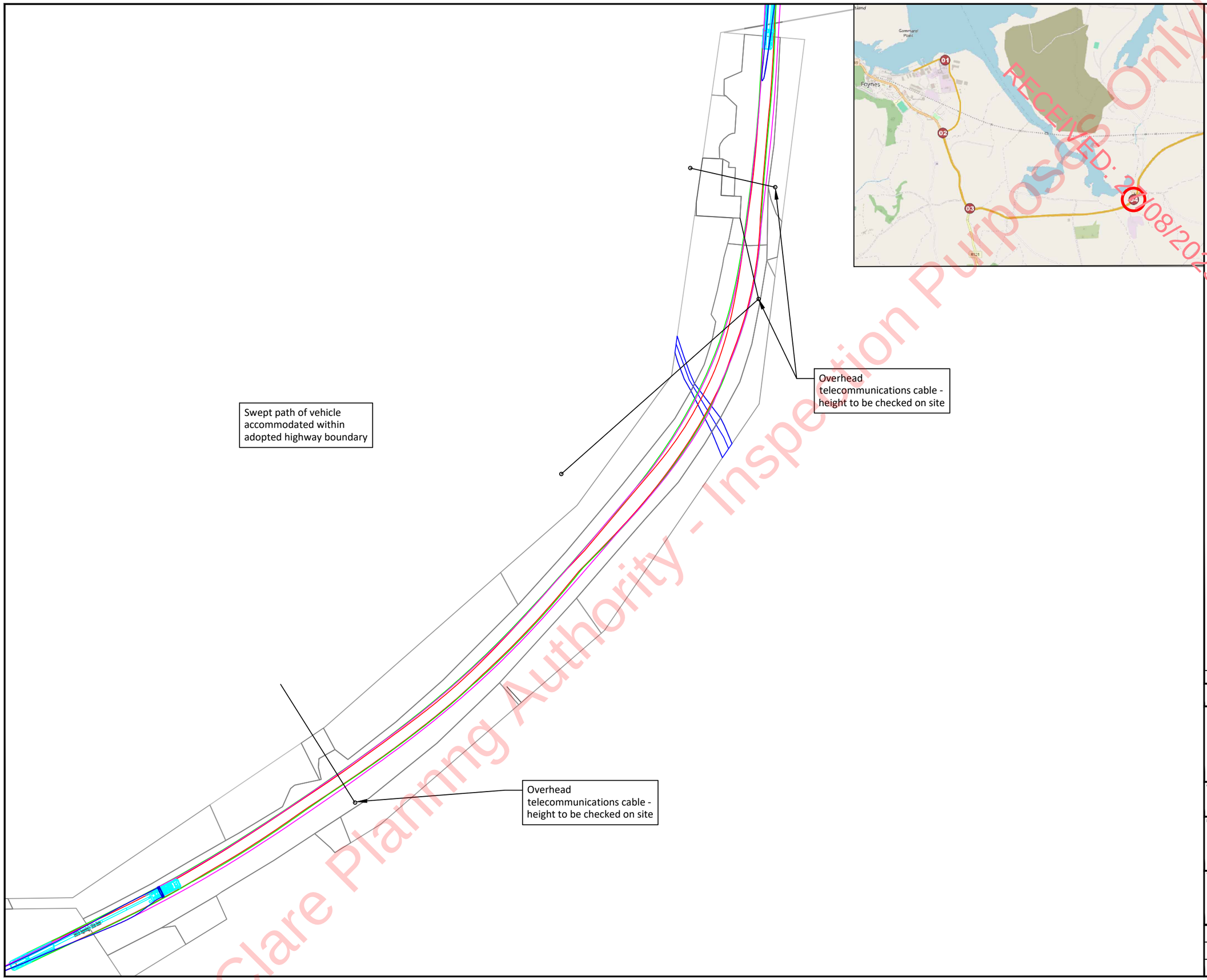
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 3

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA006	-



Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

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Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA007	-

Overhead power transmission cable - height to be checked on site

Swept path of vehicle accommodated within adopted highway boundary

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

SYSTRA
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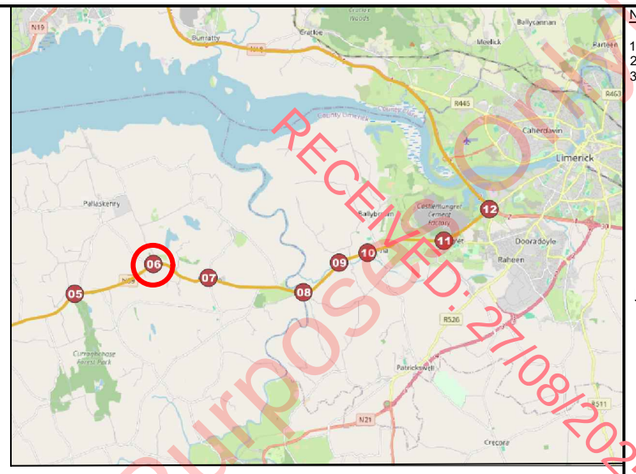
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 5

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA008	Rev.: -



Overhead telecommunications cable - height to be checked on site

Swept path of vehicle accommodated within adopted highway boundary

Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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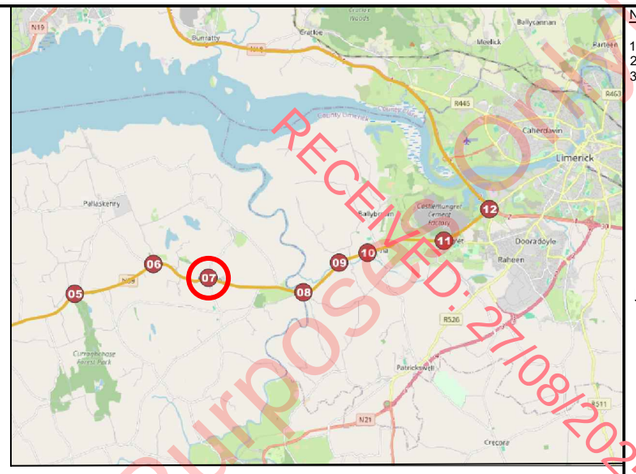
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 6

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA009	-



Notes:

1. Do not scale from drawing.
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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

Overhead telecommunication cable - height to be checked on site

Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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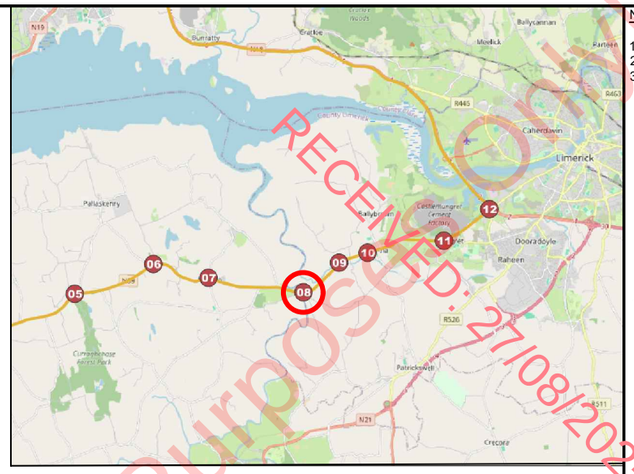
T 0131 460 1847
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 7

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA010	-



Notes:

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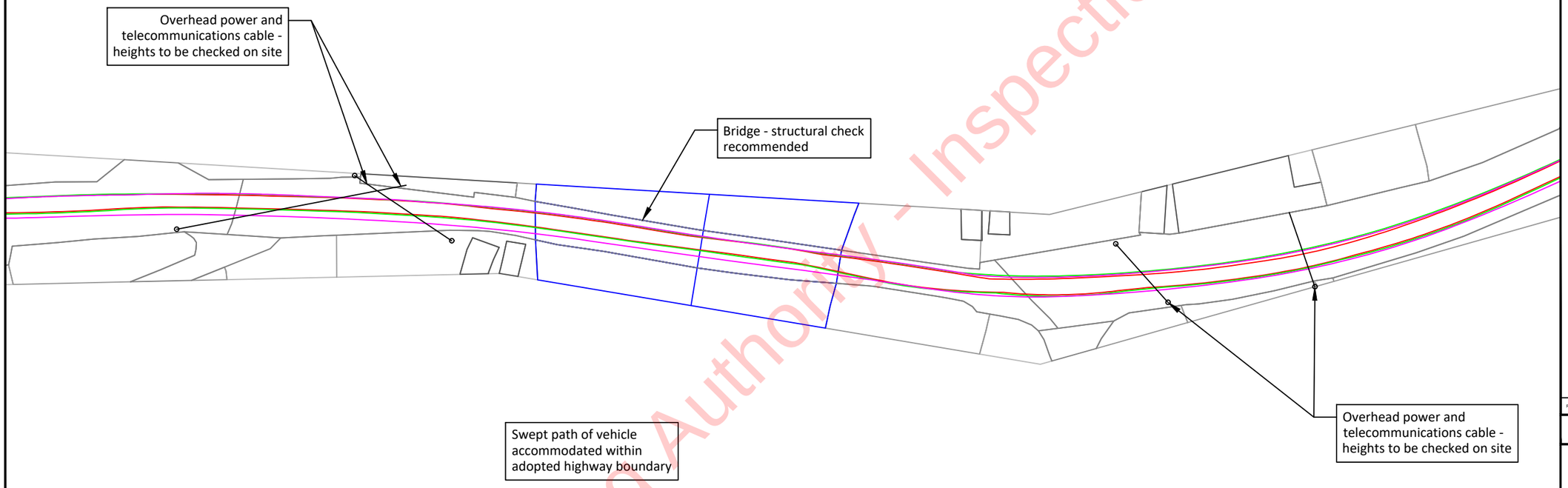
3. Please note that marked service locations are indicative only and should be confirmed by topographical survey.

N

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

SYSTRA
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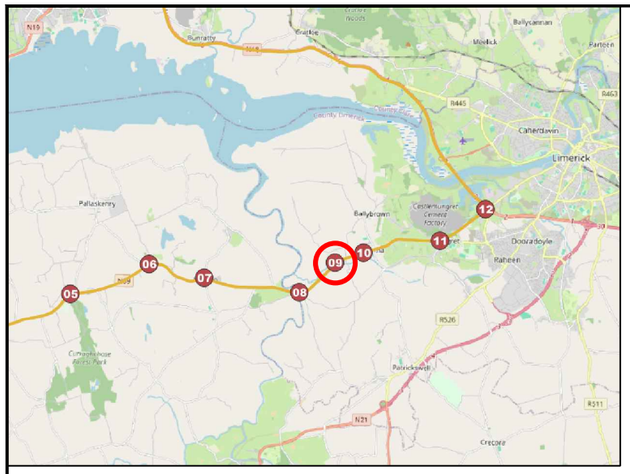
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 8

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA011	-



Notes:

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N

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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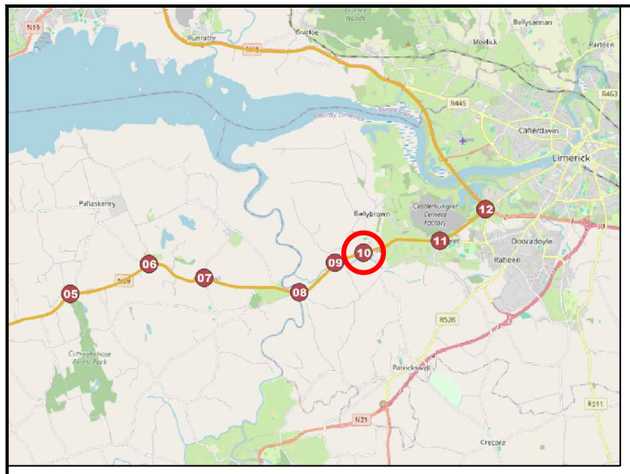
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 9

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA012	-



Slight manual steering of trailer required

Overrun and oversail of roundabout island - use of existing overrun area subject to permissions

Oversail of footway

Temporary removal of 1no. chevron sign

Oversail of roundabout splitter island

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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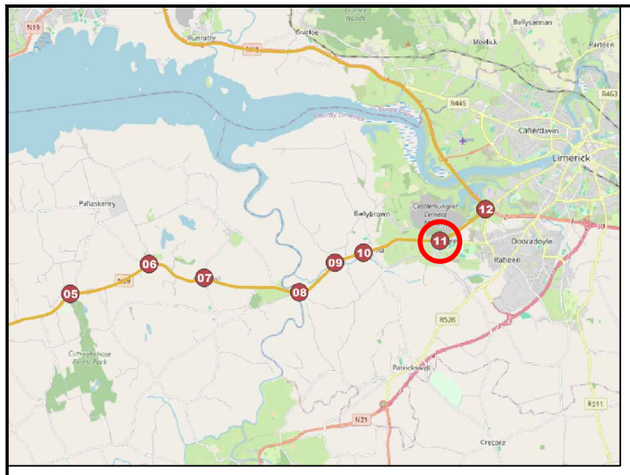
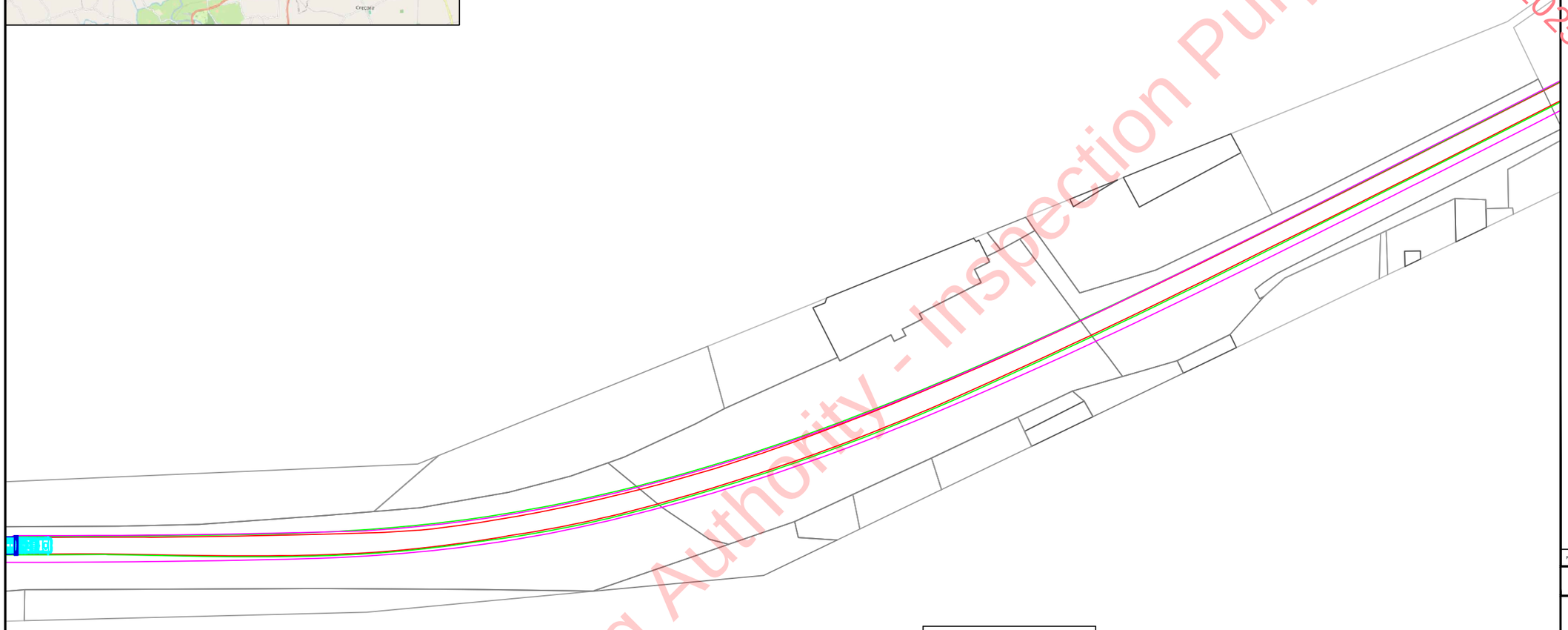
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 10

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:500
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA013	Rev.: -





Swept path of vehicle accommodated within adopted highway boundary

Notes:

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

N

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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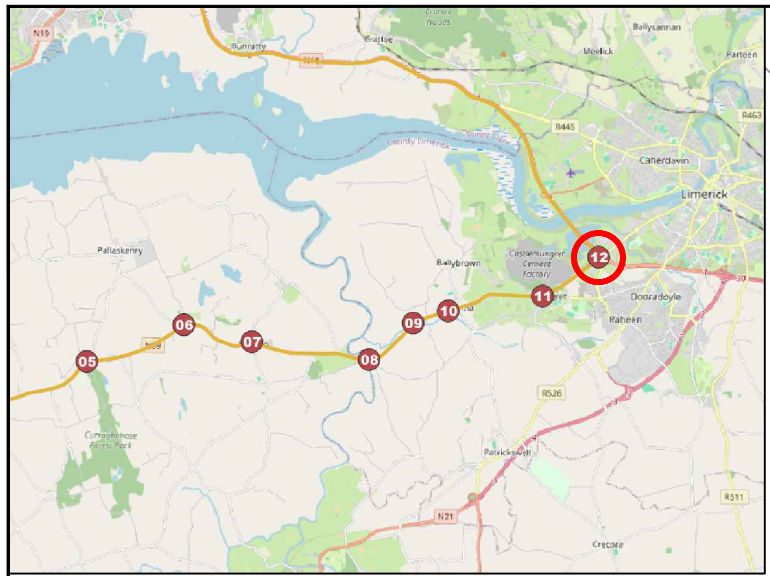
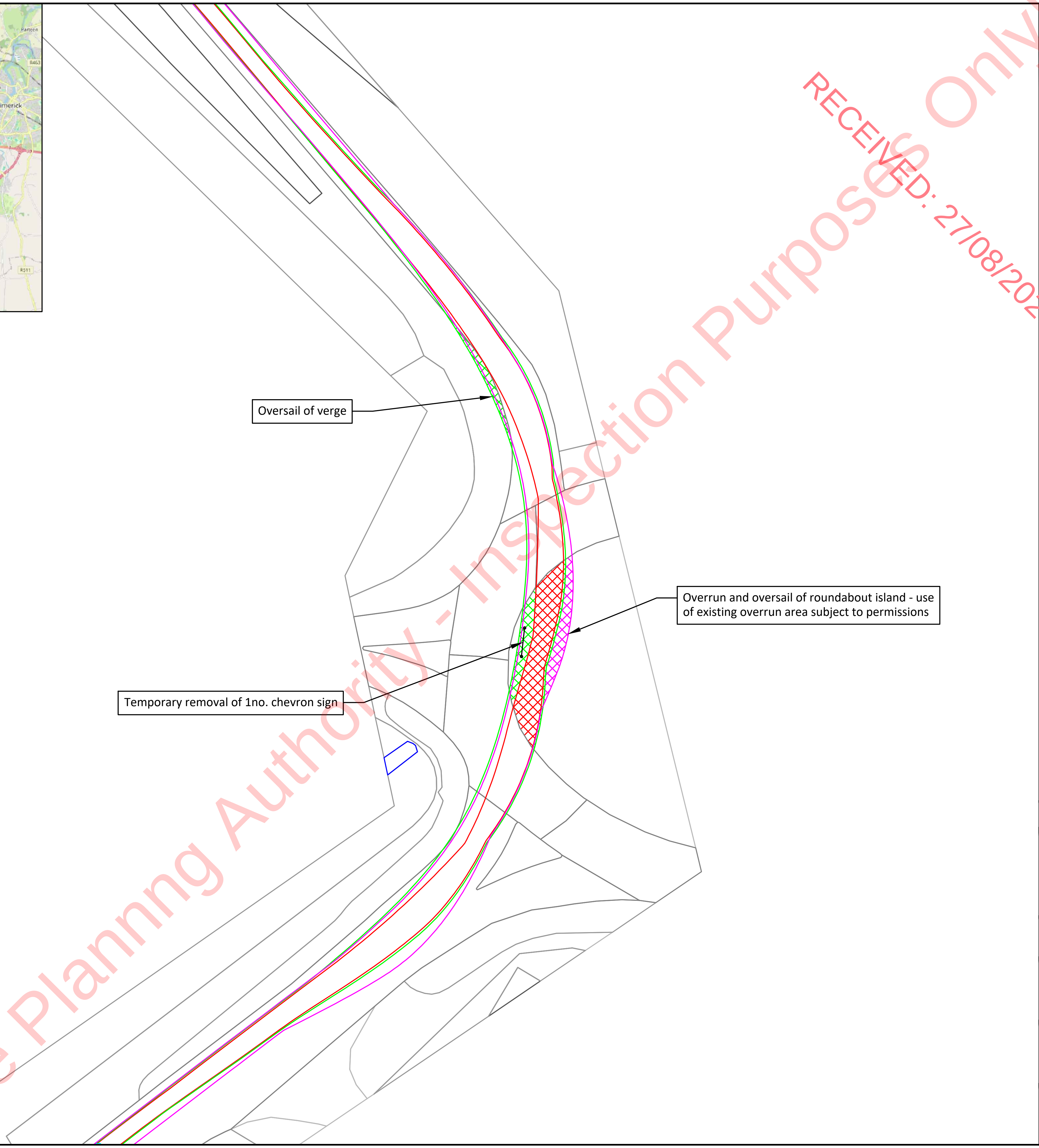
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 11

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA014	-





Notes:

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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
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- 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

SYSTRA
www.systra.com/uk
18 Charlotte Square, Edinburgh, EH2 4DF
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E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm Swept Path Assessment

Title: Super Wing Blade Carrier Vestas V117 - 57.2m Blade Pinch Point 12

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750

Drawing Status	Drawing Number	Rev.
Information	GB01T23F60/I/SPA015	-

Swept path of vehicle accommodated within adopted highway boundary

Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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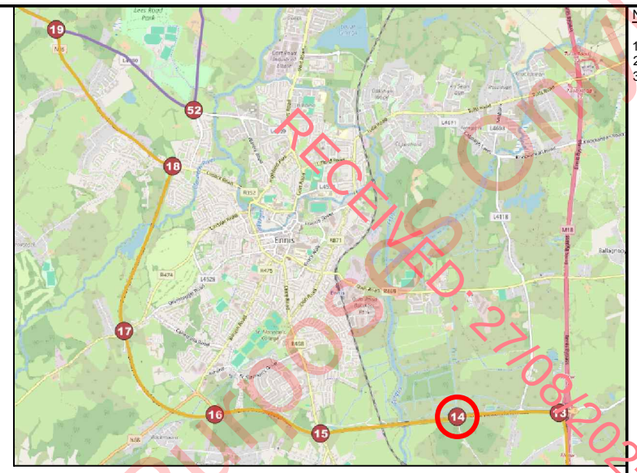
E scotland@systra.co.uk

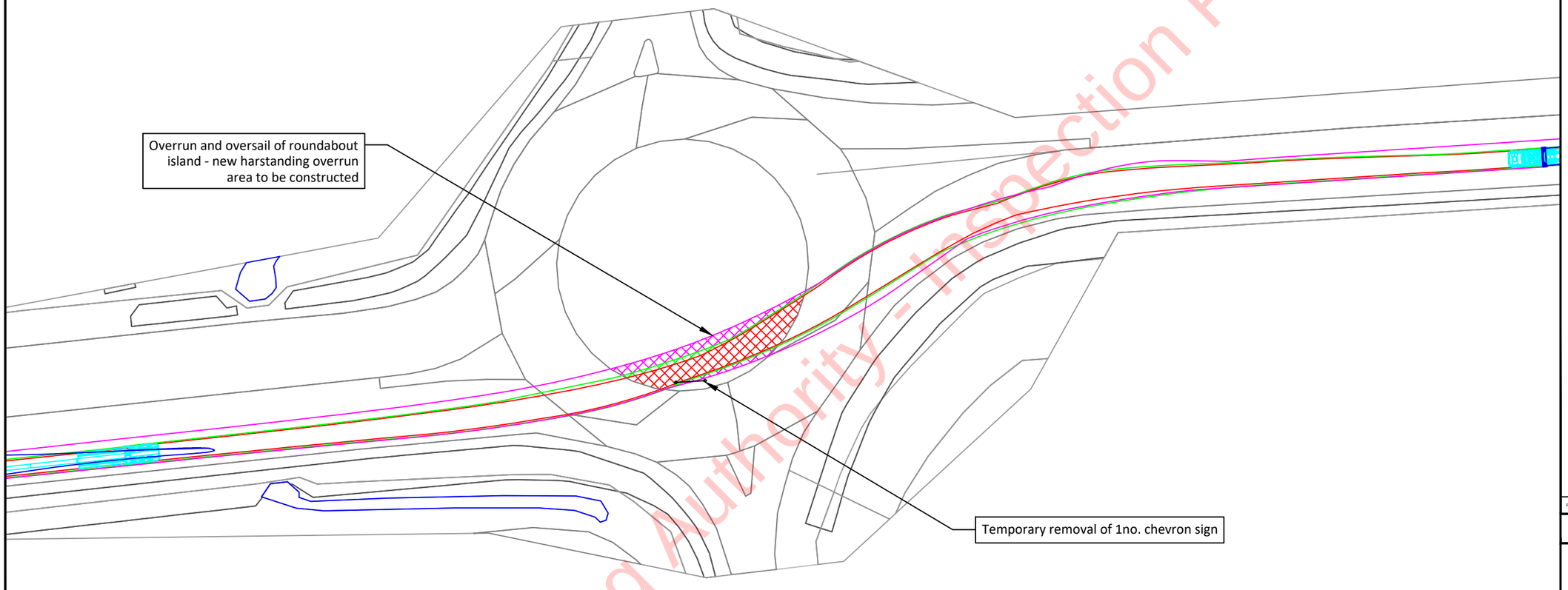
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 13

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA016	Rev.: -





Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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18 Charlotte Square,
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E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 14

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA017	-

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Key:

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- Blade Outline
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- 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

Temporary removal of 1no. chevron sign

Overrun and oversail of roundabout island - new hardstanding overrun area to be constructed

Rev.	Date	Revision details	Drawn	Checked	Approved

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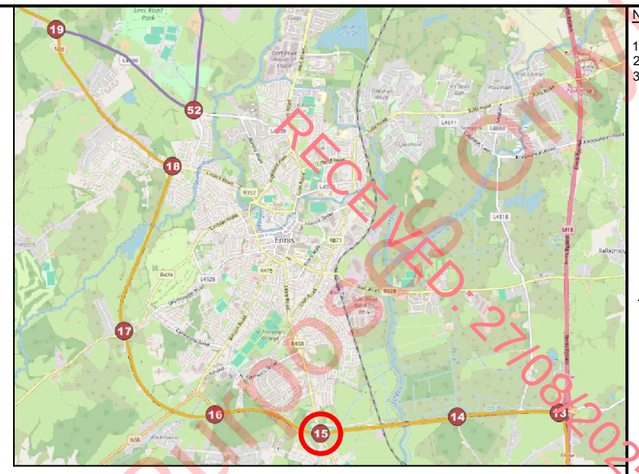
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 15

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA018	-



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

Manual steering of trailer required

Temporary removal of 1no. chevron sign

Oversail of footway

Oversail of roundabout island

Rev.	Date	Revision details	Drawn	Checked	Approved

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E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 15
Alternative avoiding overrun

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA019	-

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

Temporary removal of 1no. chevron sign

Oversail of roundabout splitter island

Oversail of footway

Temporary removal of guard railing

Temporary removal of 1no. road sign

Overrun and oversail of roundbabout island - new harstanding overrun area required

Rev.	Date	Revision details	Drawn	Checked	Approved

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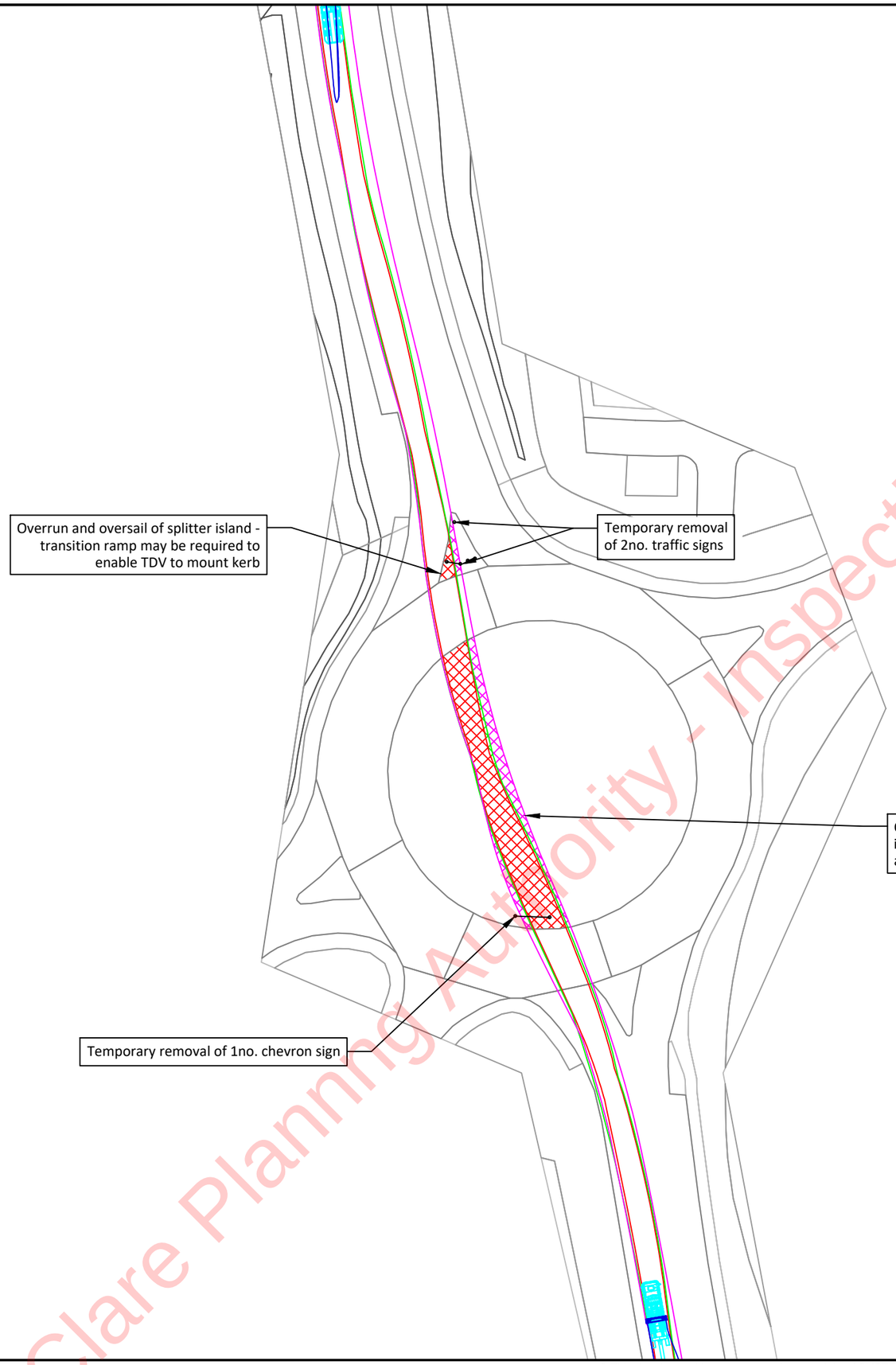
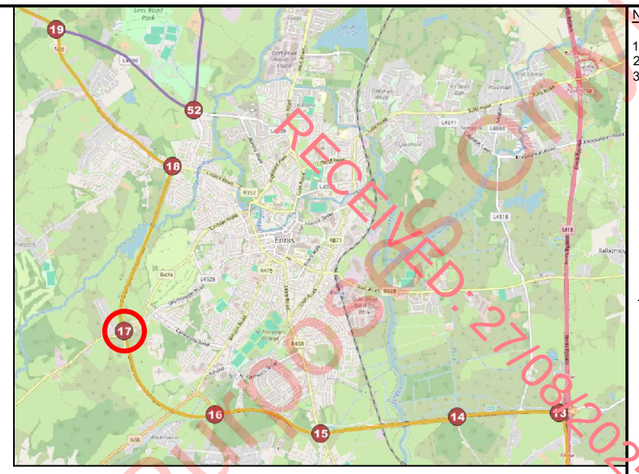
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 16

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA020	-





Notes:

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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

Rev.	Date	Revision details	Drawn	Checked	Approved

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Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 17

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA021	-

Oversail of splitter island

Temporary removal of 4no. traffic signs

Overrun of roundabout island - new hardstanding overrun area to be constructed

Use of manual steering of the trailer required

Temporary removal of 1no. chevron sign

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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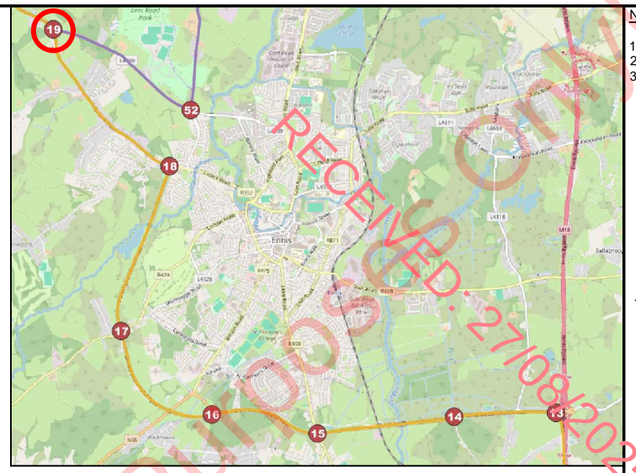
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 18

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA022	-



Vegetation to be trimmed

Swept path of vehicle accommodated within adopted highway boundary

Overhead telecommunications cable - height to be checked on site

Notes:

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2. All dimensions in metres unless otherwise stated.
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N

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

SYSTRA
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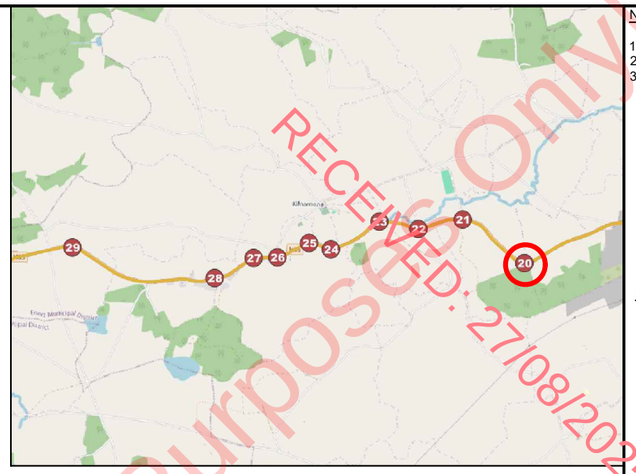
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 19
Route 1 - From South

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA023	-



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Key:

- Blade Transporter Vehicle
- Blade Outline
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- 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

Swept path of vehicle accommodated within adopted highway boundary

Overhead telecommunications cable - height to be checked on site

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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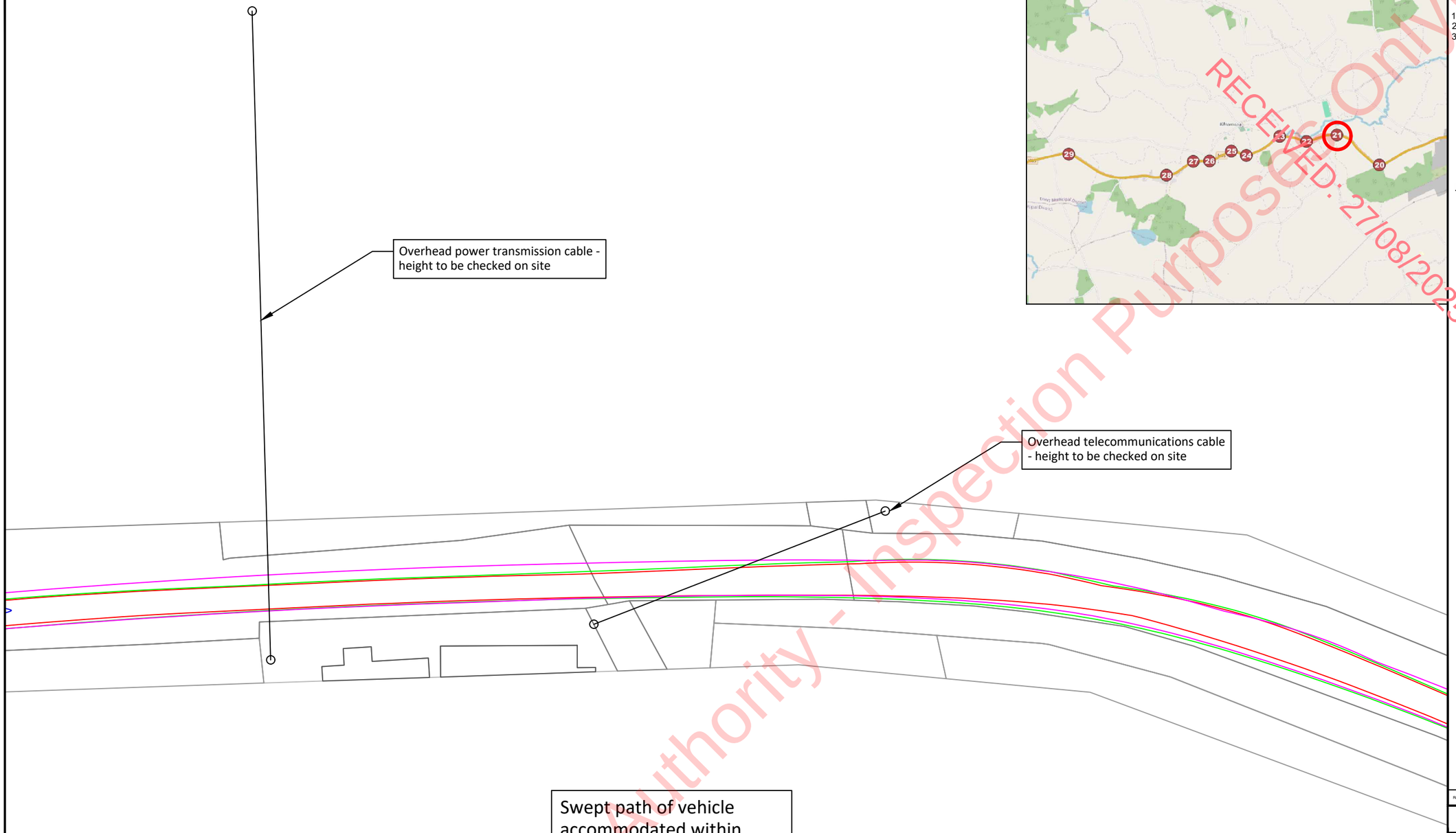
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 20

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA024	-



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- Blade Outline
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- 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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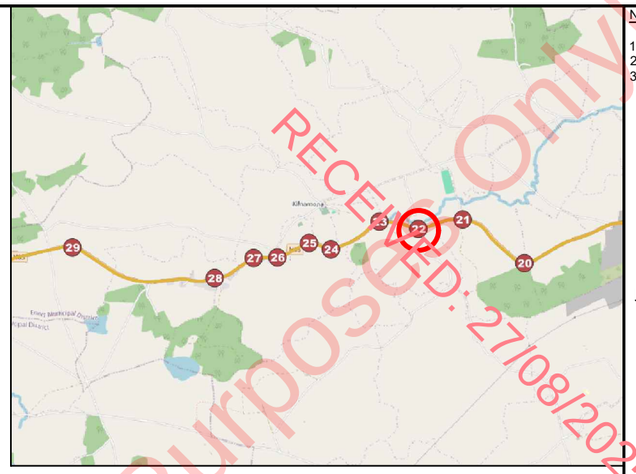
Client: Gavin & Doherty Geosolutions

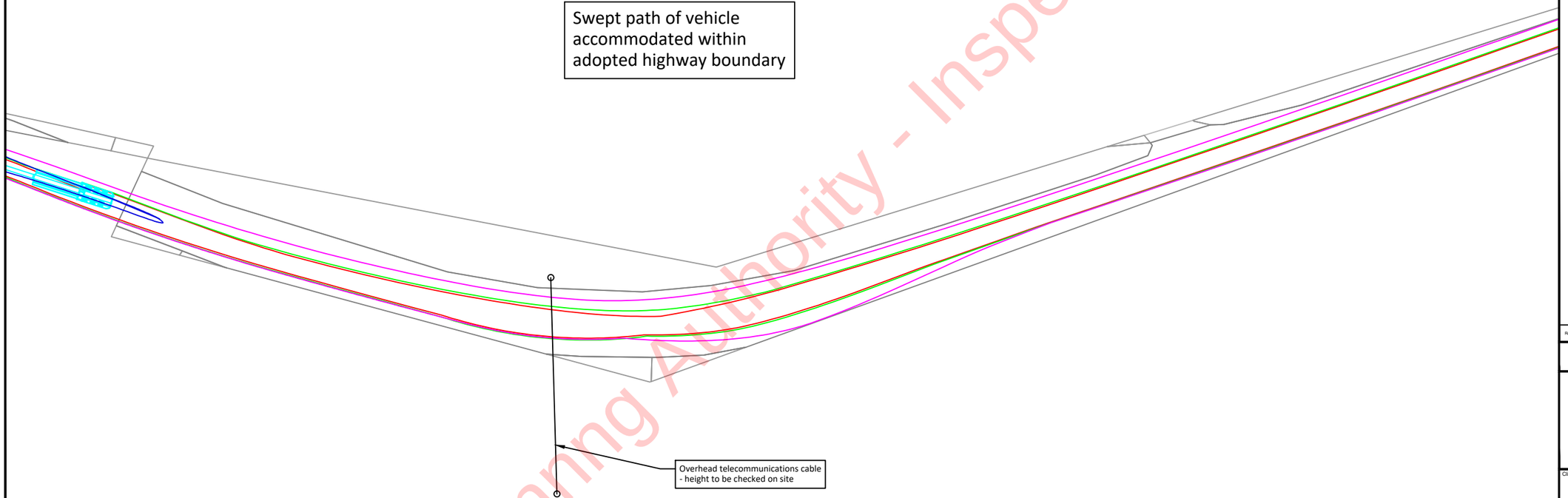
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 21

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA025	-



Swept path of vehicle accommodated within adopted highway boundary



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Key:

- Blade Transporter Vehicle
- Blade Outline
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- 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

SYSTRA
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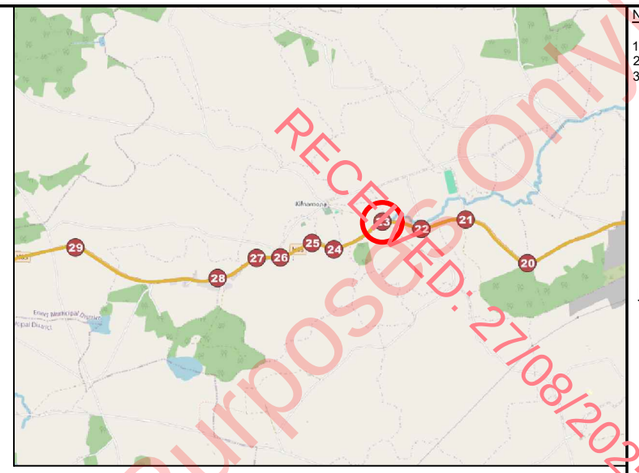
T 0131 460 1847
E scotland@systra.co.uk

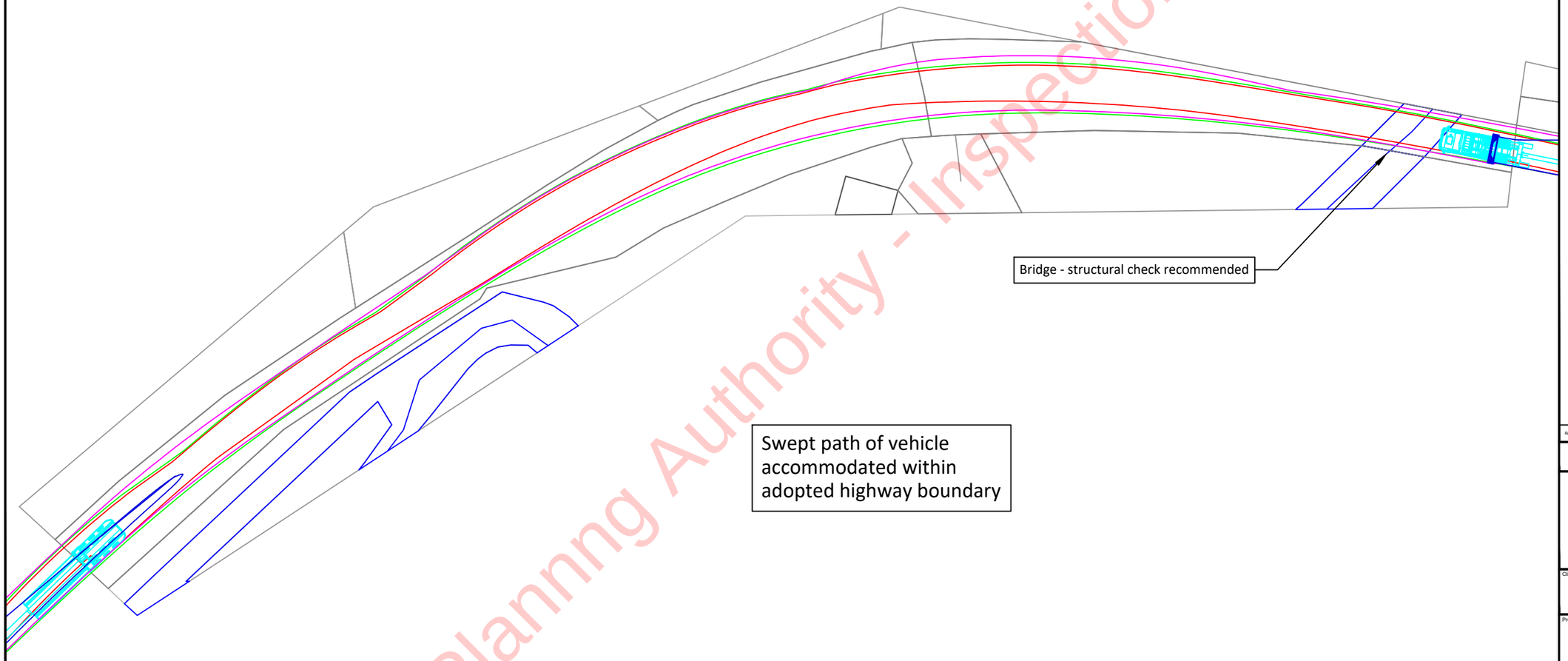
Client
Gavin & Doherty Geosolutions

Project
Illaunbaun Wind Farm
Swept Path Assessment

Title
Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 22

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA026	-





Bridge - structural check recommended

Swept path of vehicle accommodated within adopted highway boundary

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Key:

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- 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

SYSTRA
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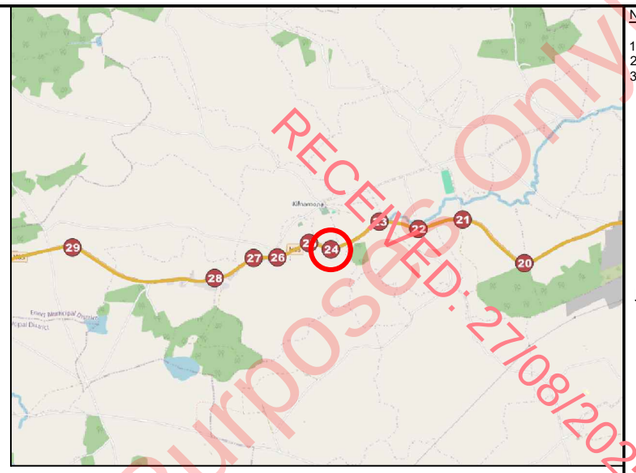
EH2 4DF
T 0131 460 1847
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 23

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA027	-



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Key:

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- Blade Outline
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- 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

Oversail of verges

Temporary removal of 3no. chevron signs

Rev.	Date	Revision details	Drawn	Checked	Approved

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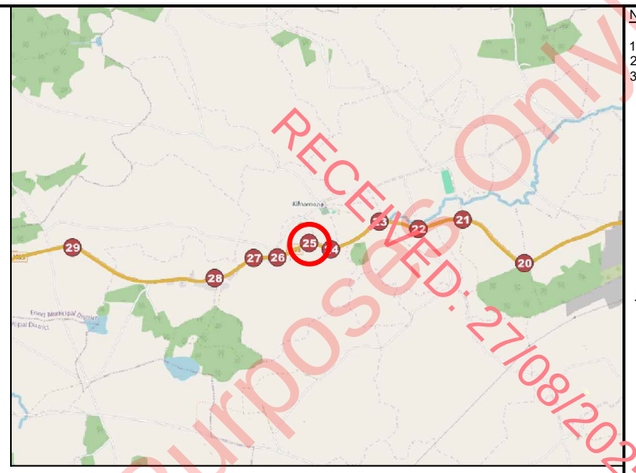
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 24

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA028	-



Notes:

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Key:

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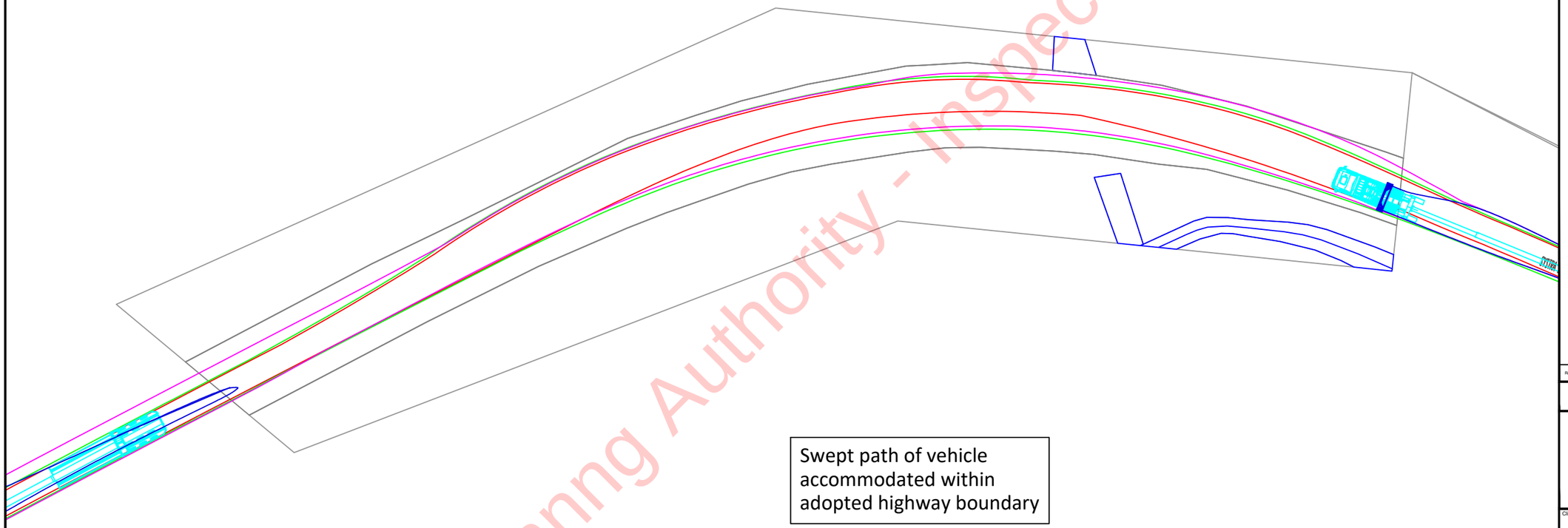
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway



Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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18 Charlotte Square,
Edinburgh,
EH2 4DF

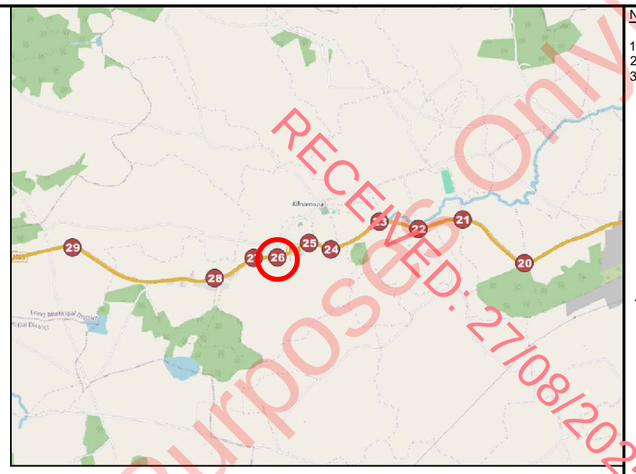
T 0131 460 1847
E scotland@systra.co.uk

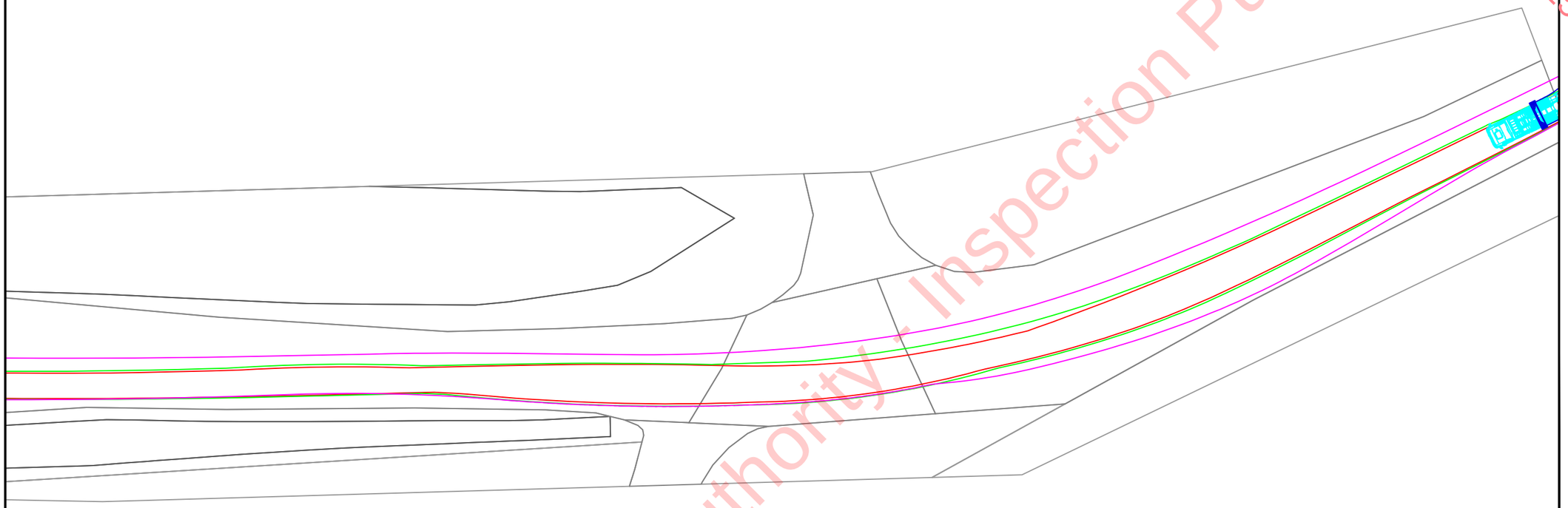
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 25

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA029	-





Swept path of vehicle accommodated within adopted highway boundary

Notes:

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Key:

- Blade Transporter Vehicle
- Blade Outline
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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

Rev.	Date	Revision details	Drawn	Checked	Approved

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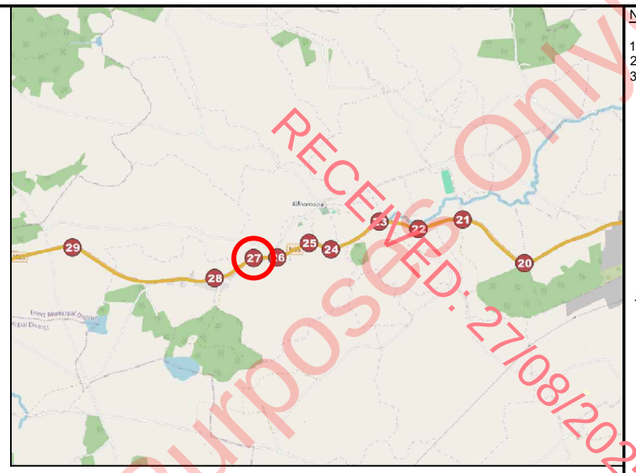
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 26

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA030	-



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

Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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Edinburgh,
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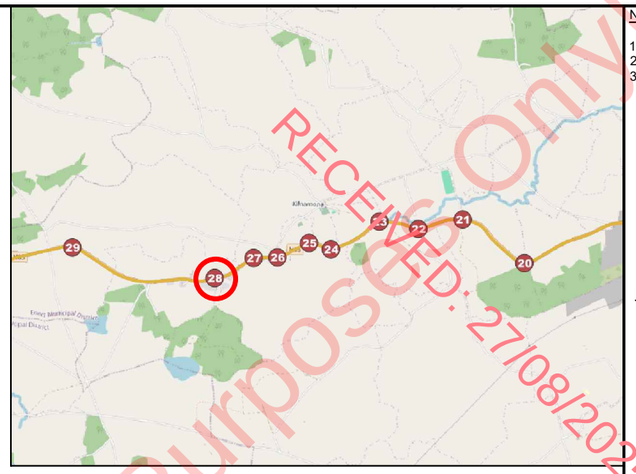
T 0131 460 1847
E scotland@systra.co.uk

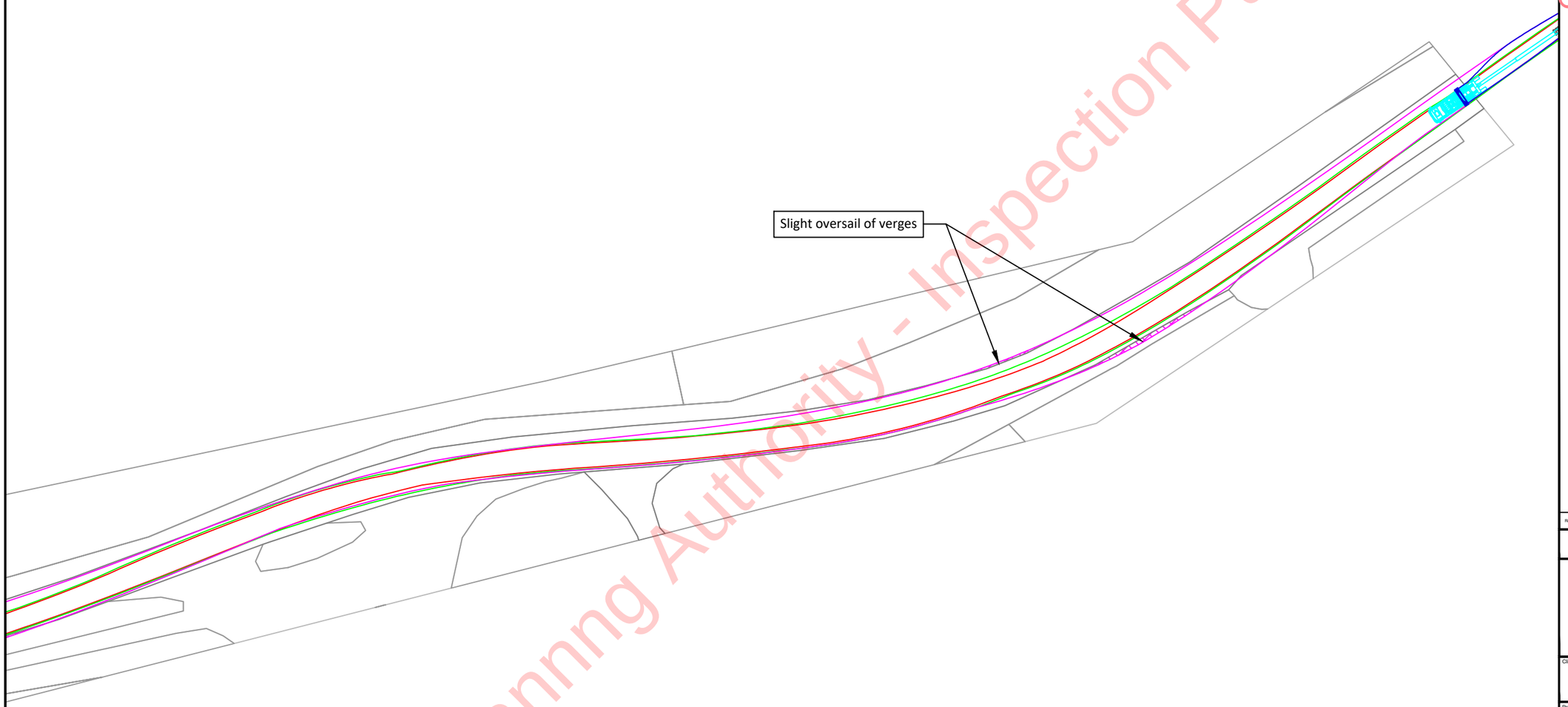
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 27

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA031	-





Notes:

1. Do not scale from drawing.
2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

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18 Charlotte Square,
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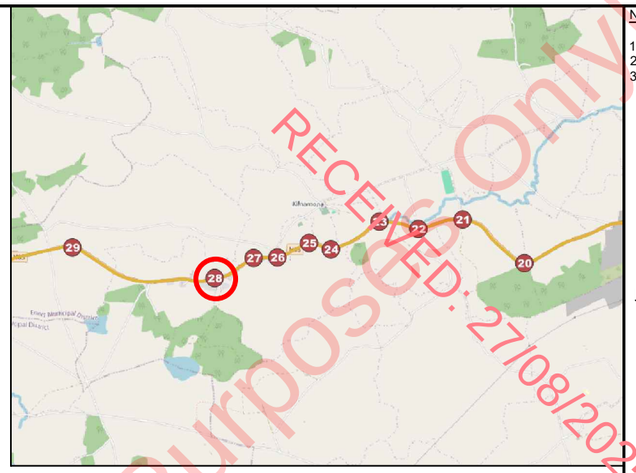
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 28
Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA032	-



Notes:

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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

Slight oversail of verge

Rev.	Date	Revision details	Drawn	Checked	Approved

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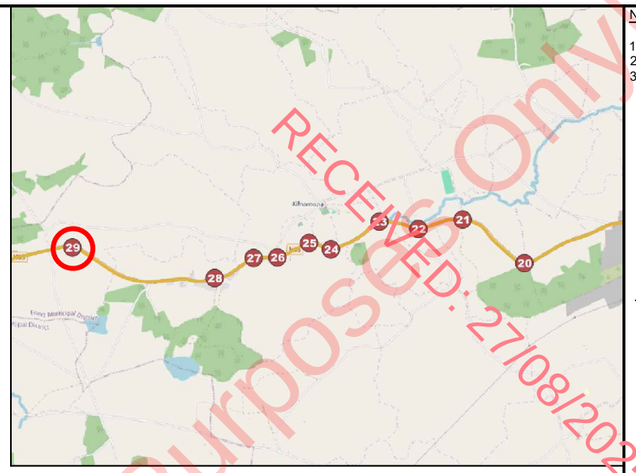
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 28
Sheet 2 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA033	-



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

Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

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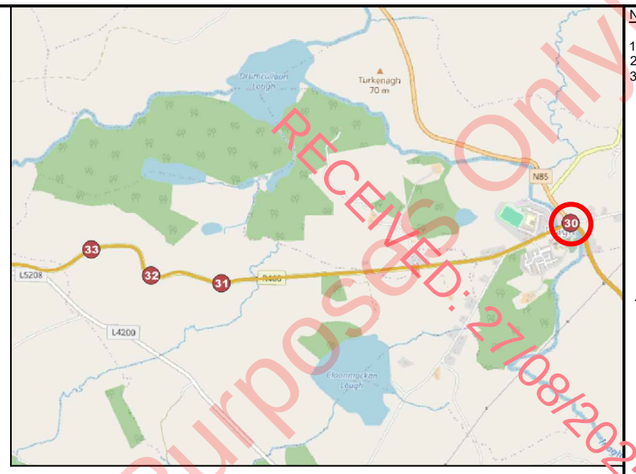
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 29

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:1000
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA034	Rev.: -



Manual steering of trailer required

Overhead power transmission cables - height to be checked on site

Temporary removal of 1no. stop sign and 1no. lighting column

Oversail of footway

Overrun and oversail of car park - parking to be suspending during deliveries

Oversail of footway

Temporary removal of wall

Notes:

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N

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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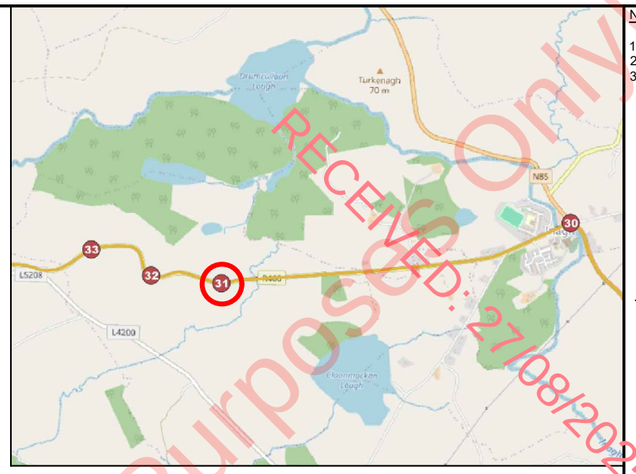
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 30

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA035	-



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

Overhead power transmission cable - height to be checked on site

Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

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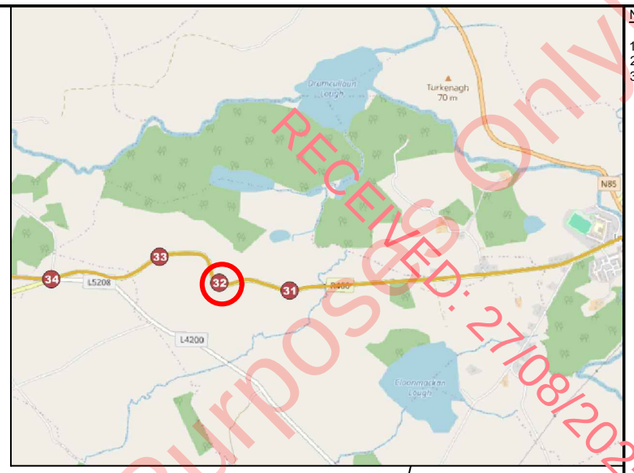
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 31

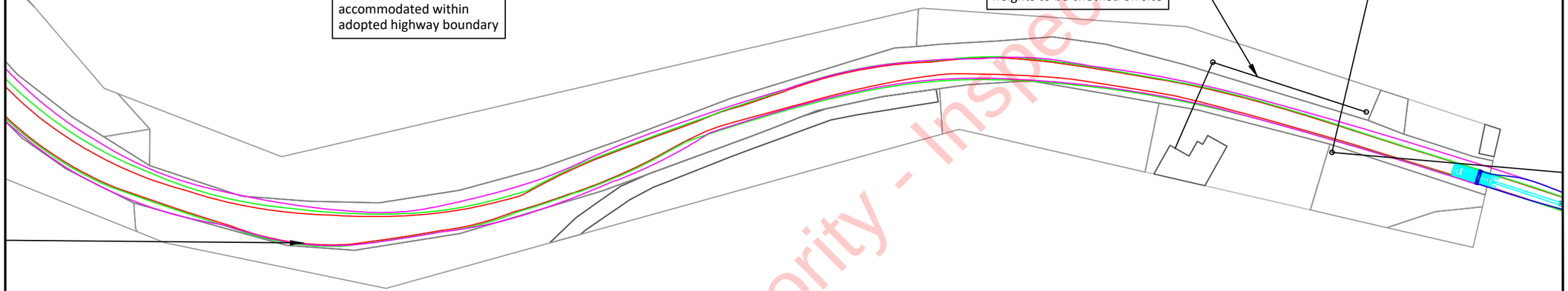
Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA036	-

erhead power
nsmission cables - height
be checked on site



Swept path of vehicle accommodated within adopted highway boundary

Overhead power and telecommunications cables - heights to be checked on site



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N

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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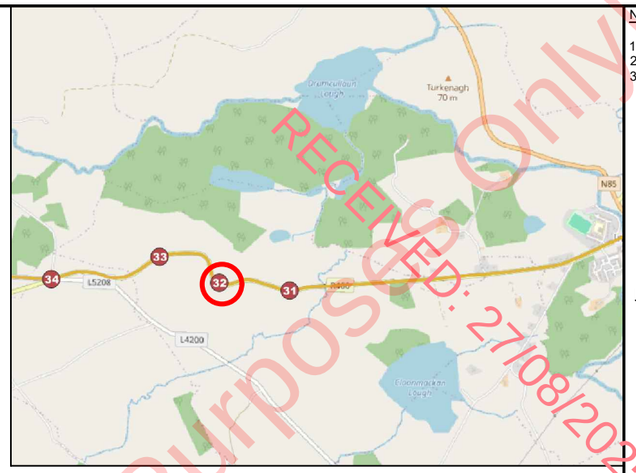
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 32
Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA037	-



Notes:

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Key:

- Blade Transporter Vehicle
- Blade Outline
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- 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

Overhead power transmission cables - height to be checked on site

Swept path of vehicle accommodated within adopted highway boundary

Manual steering of trailer required to navigate bend

Rev.	Date	Revision details	Drawn	Checked	Approved

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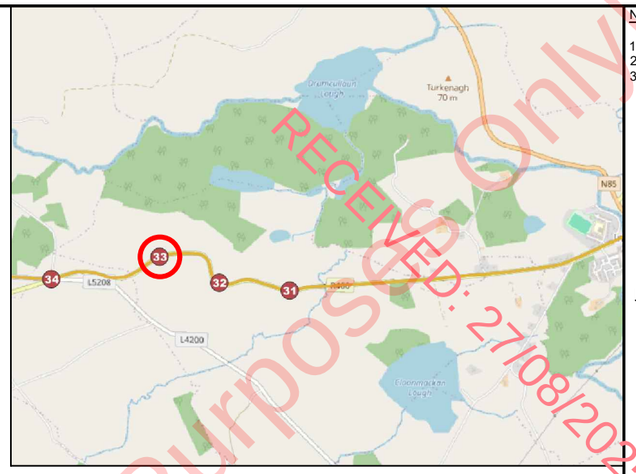
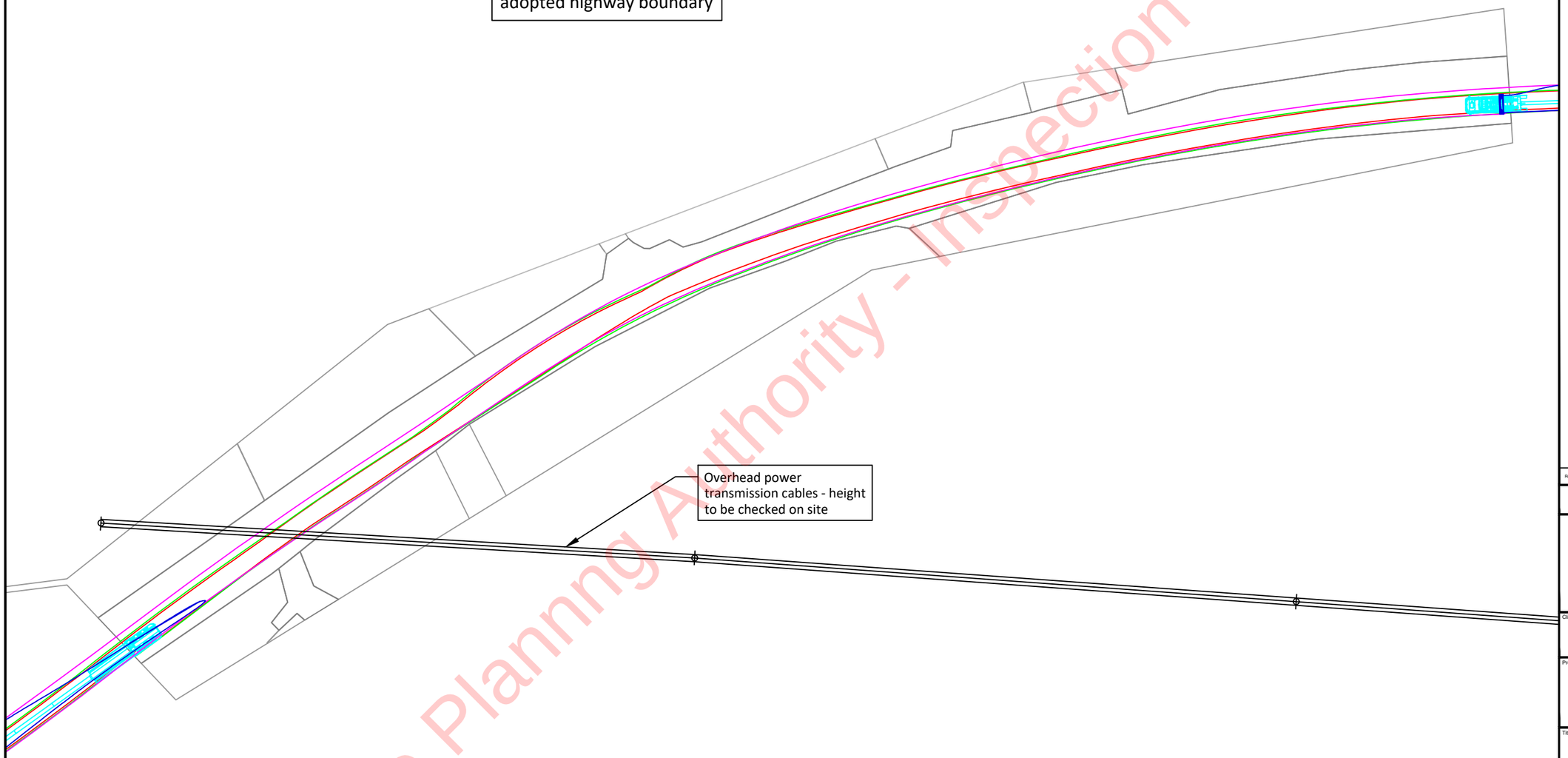
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 32
Sheet 2 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA038	-



Swept path of vehicle accommodated within adopted highway boundary



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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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Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 33

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA039	-

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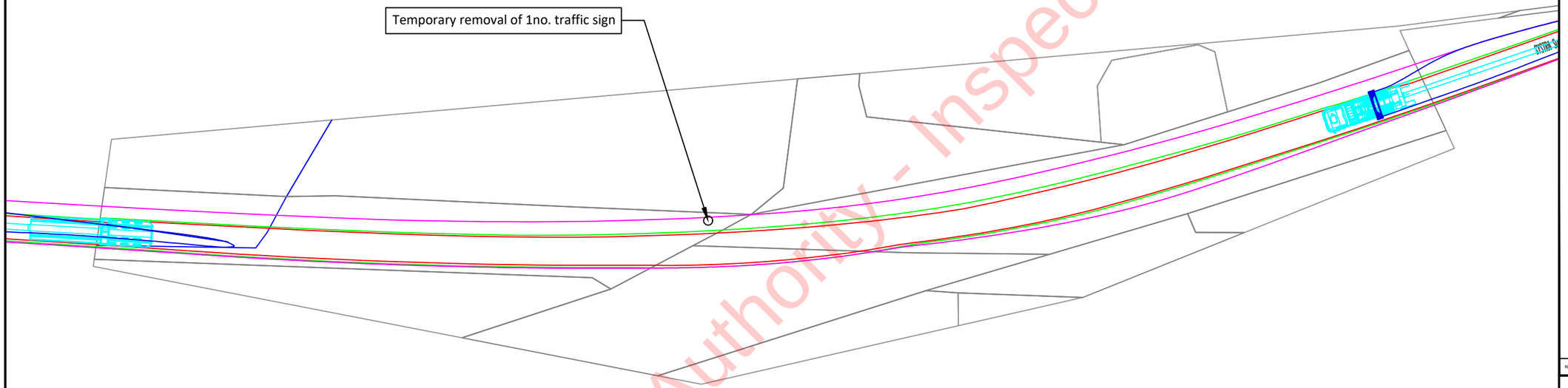
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway



Swept path of vehicle accommodated within adopted highway boundary

Rev.	Date	Revision details	Drawn	Checked	Approved

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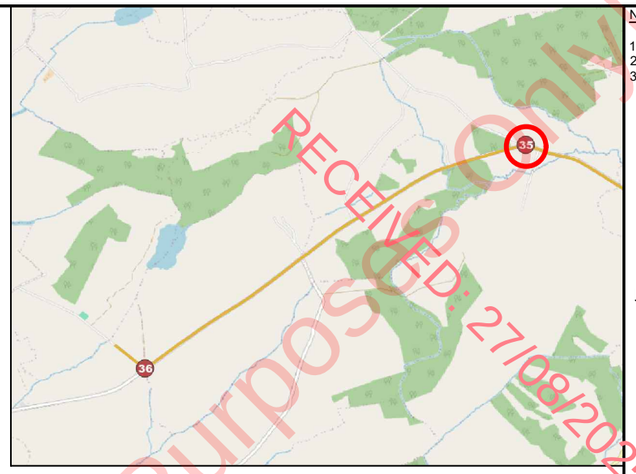
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 34

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA040	-



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Key:

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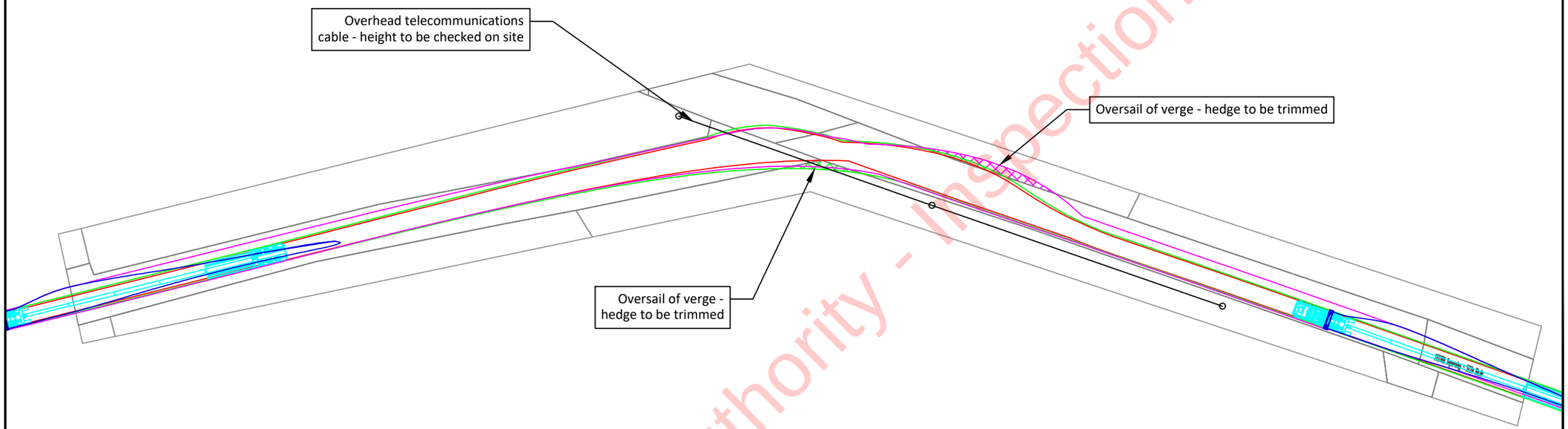
- Over-sail envelope being swept by tractor and trailer bed
- Over-sail envelope being swept by blade path
- Over-run area of tractor and trailer wheels out with carriageway
- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway



Rev.	Date	Revision details	Drawn	Checked	Approved

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Client

Gavin & Doherty Geosolutions

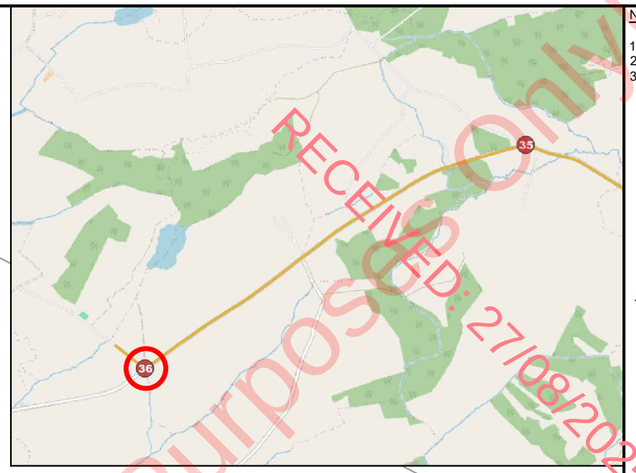
Project

Illaunbaun Wind Farm
Swept Path Assessment

Title

Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 35

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA041	-



Notes:

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N

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

Overrun of potential third party land - new hardstanding overrun area to be constructed

Overhead power transmission cable - height to be checked on site

Manual steering of trailer required

Rev.	Date	Revision details	Drawn	Checked	Approved

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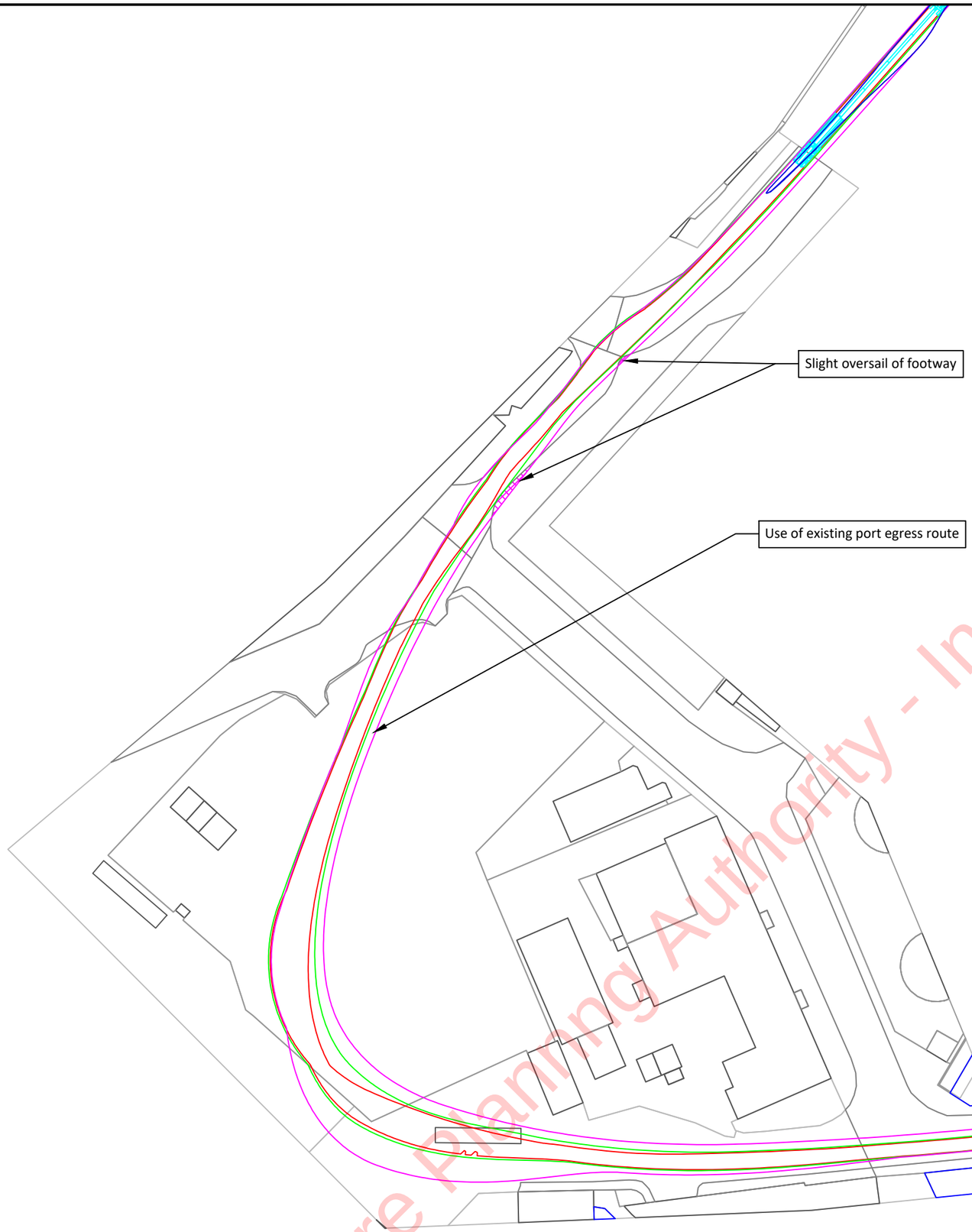
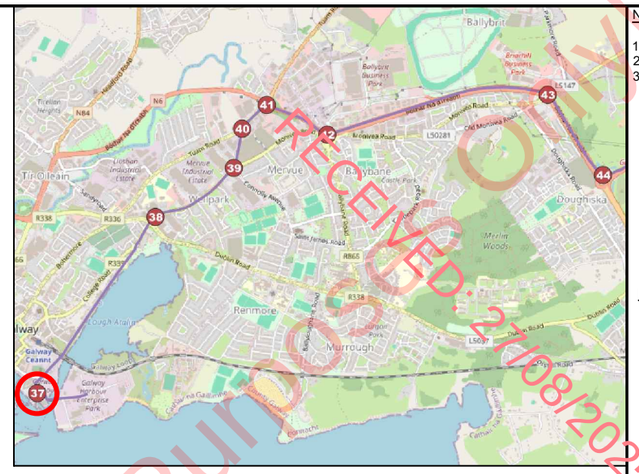
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 36

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA042	-





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N

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

SYSTRA
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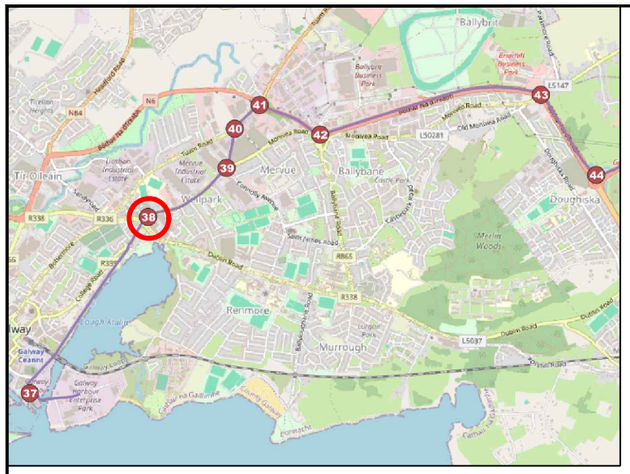
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 37

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA043	-



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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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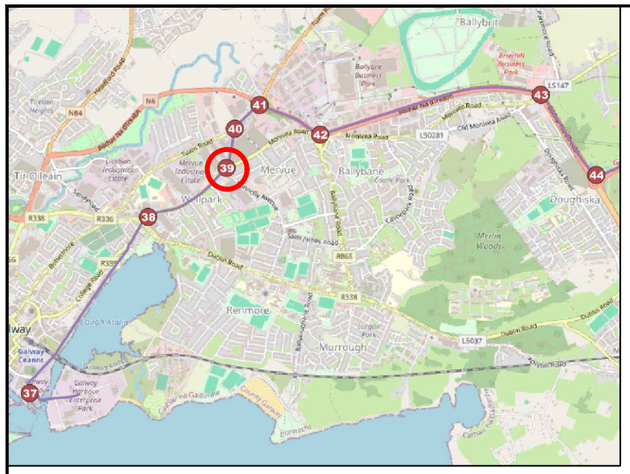
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 38

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA044	-



Slight oversail of footway

Manual steering of trailer required

Slight oversail of footway

Notes:

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N

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: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 39

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA045	-

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Key:

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- 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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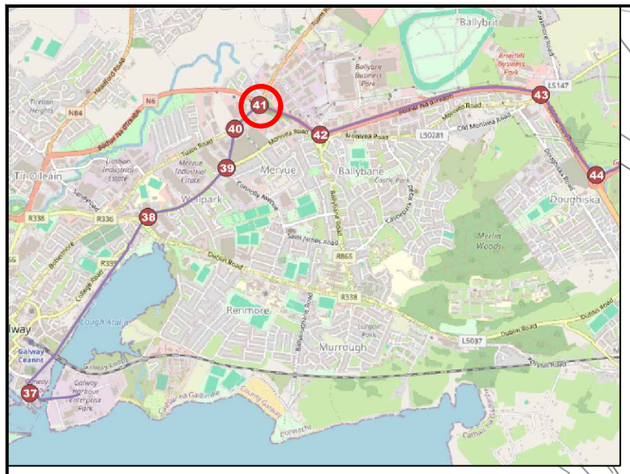
E scotland@systra.co.uk

Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 40

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA046	-



Manual steering of trailer required

Oversail of traffic island - temporary removal of 2no. bollards, 1no. signal head and 1no. traffic sign

Oversail of footway

Oversail of traffic island - temporary removal of 1no. signal head, 1no. bollard and guard railing

Notes:

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2. All dimensions in metres unless otherwise stated.
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

Rev.	Date	Revision details	Drawn	Checked	Approved

SYSTRA
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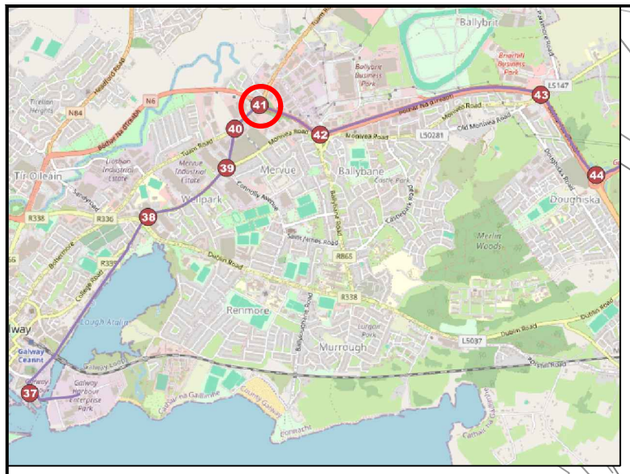
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 41

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:500
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA047	Rev.: -



Oversail of footway

Manual steering of trailer required

Travel in opposing direction on slip lane

Notes:

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Key:

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- Blade Outline
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- 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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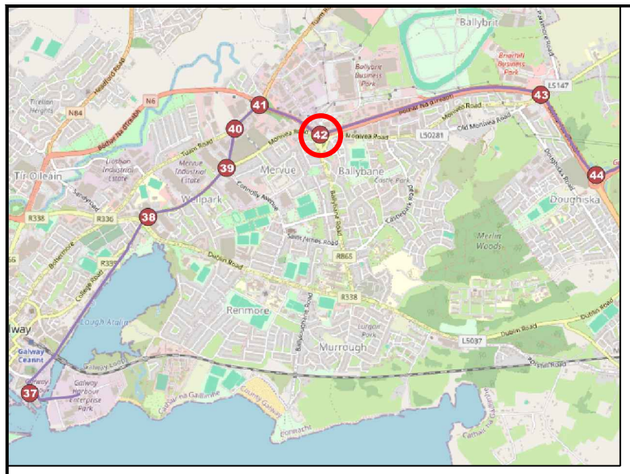
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 41
Alternative minimising oversail

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:500
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA048	Rev.: -



Swept path of vehicle accommodated within adopted highway boundary

Notes:

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Key:

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- Blade Outline
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- 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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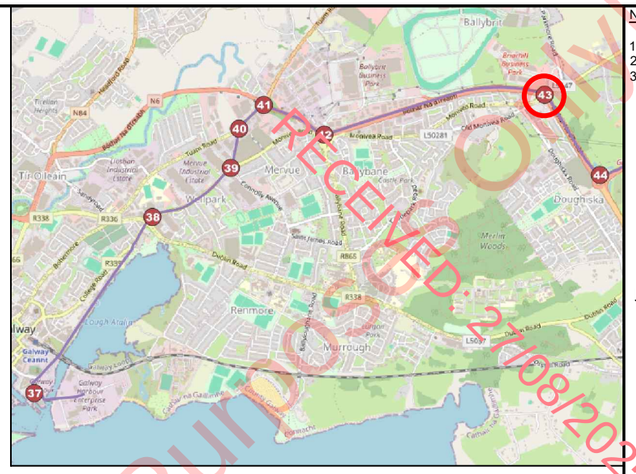
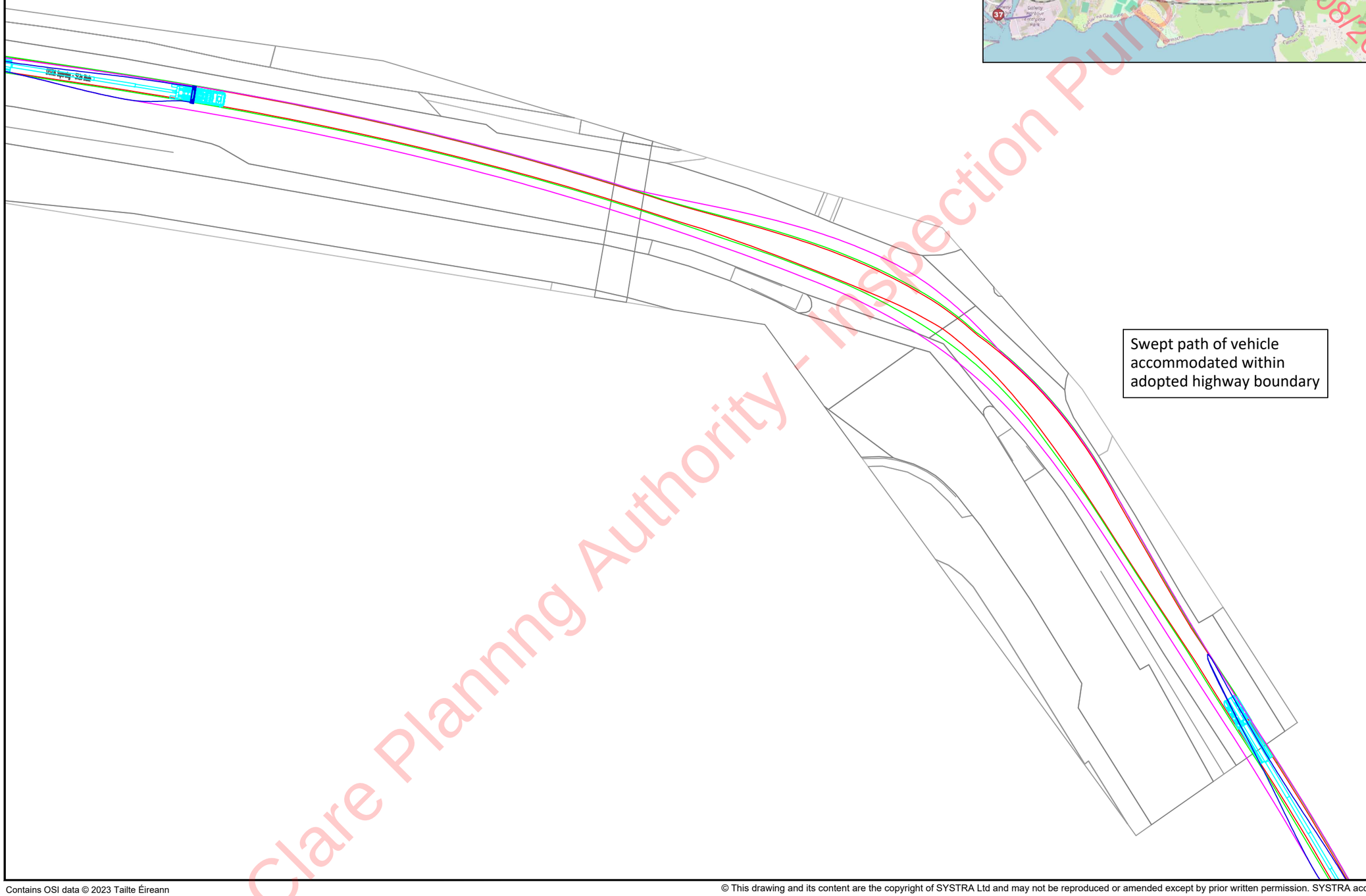
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 42

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA049	-





Swept path of vehicle accommodated within adopted highway boundary

Notes:

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

Key:

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- Blade Outline
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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

Rev.	Date	Revision details	Drawn	Checked	Approved

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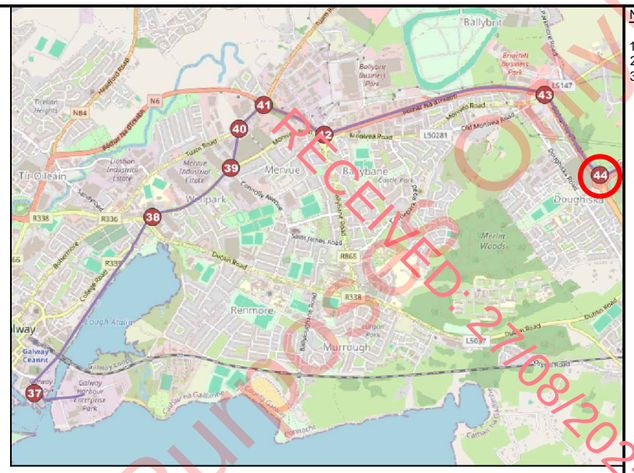
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 43

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA050	Rev.: -



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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
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- 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

Slight oversail of verges

Rev.	Date	Revision details	Drawn	Checked	Approved

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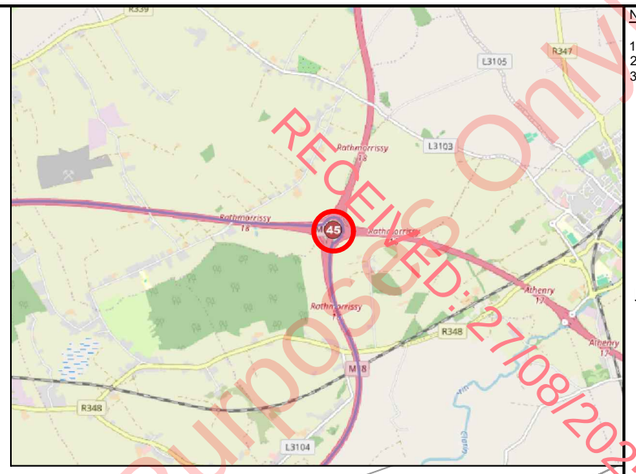
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 44

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA051	-



Notes:

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N

Key:

- Blade Transporter Vehicle
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- 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

Gavin & Doherty Geosolutions

Project

Illaunbaun Wind Farm
Swept Path Assessment

Title

Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 45
Sheet 1 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA052	-

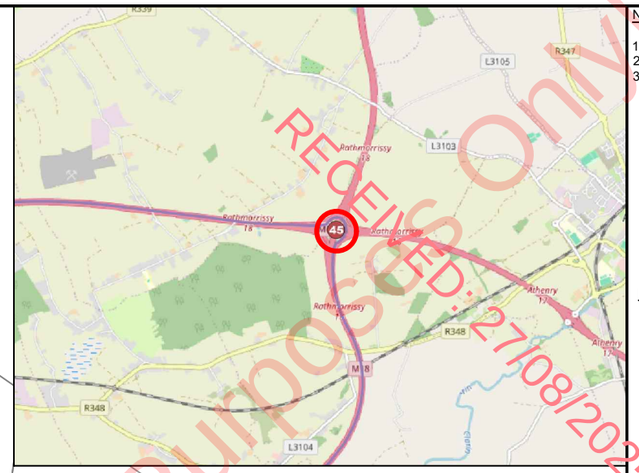
Manual steering of trailer required throughout pinch point

Oversail of verge

Oversail of verge

Temporary removal of 1no. traffic sign

Oversail of verges



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Key:

- Blade Transporter Vehicle
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- 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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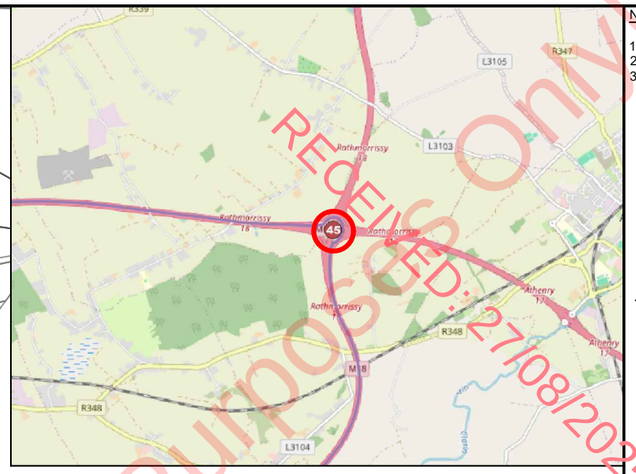
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 45
Sheet 2 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:1000
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA053	Rev.: -



Manual steering of trailer
required throughout pinch point

Oversail of verge

Oversail of verges

Temporary removal of 1no. lighting
column and 1no. traffic sign

Oversail of verge

Notes:

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Key:

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- Blade Outline
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- 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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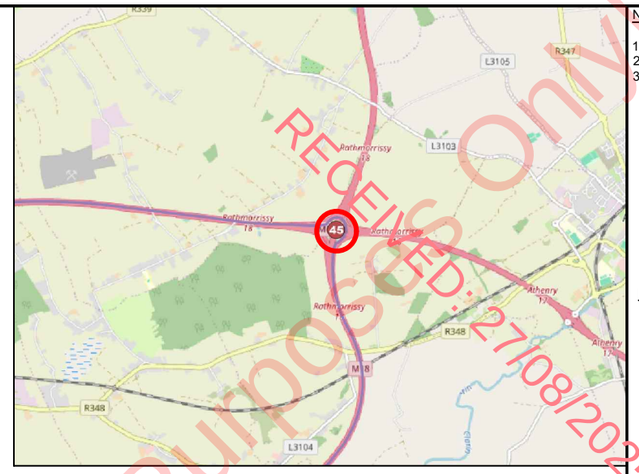
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 45
Sheet 3 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:1000
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA054	Rev.: -



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Key:

- Blade Transporter Vehicle
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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

Rev.	Date	Revision details	Drawn	Checked	Approved

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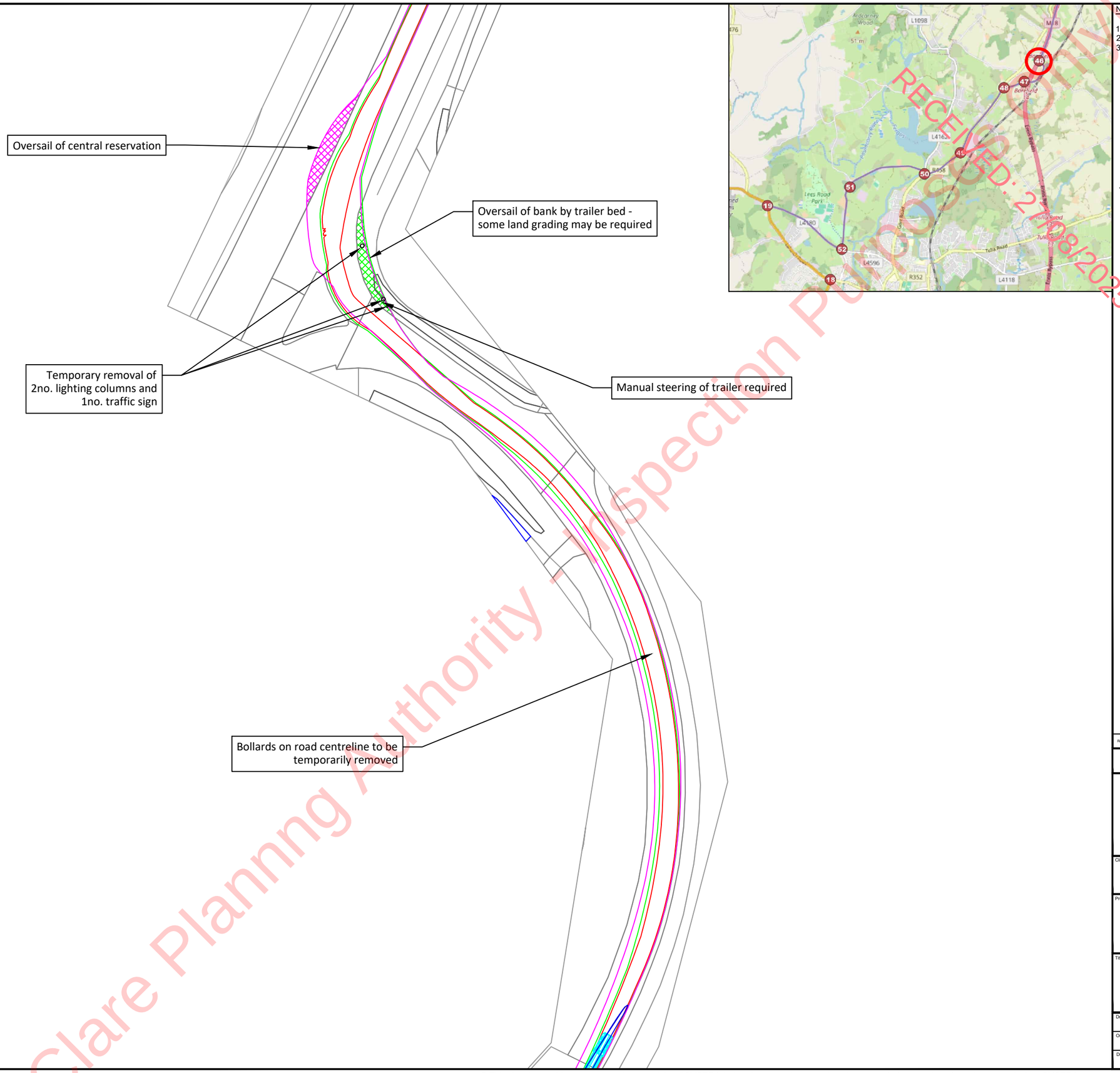
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 45
Sheet 4 of 4

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA055	-



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N

Key:

- Blade Transporter Vehicle
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- 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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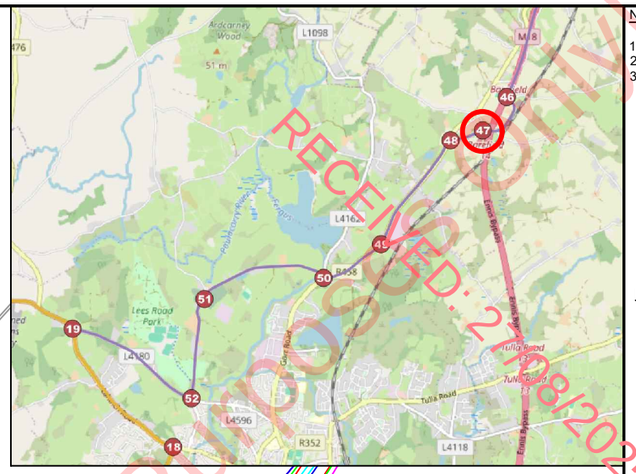
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 46

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:1000
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA056	-



Bridge height not posted - to be checked on site

Bollards on road centreline to be temporarily removed

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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

Rev.	Date	Revision details	Drawn	Checked	Approved

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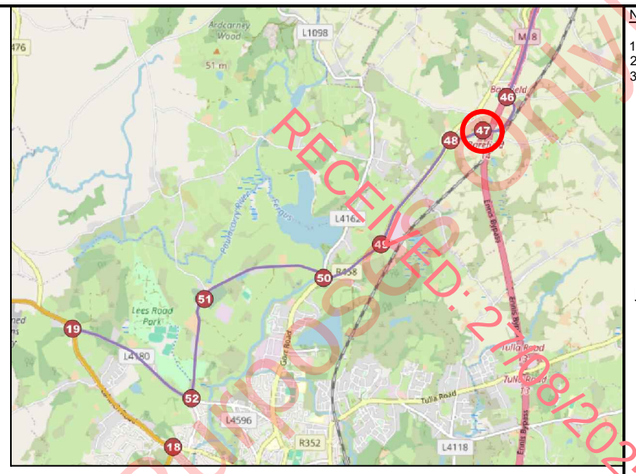
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 47
Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA057	-



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Key:

- Blade Transporter Vehicle
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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

Overrun of roundabout island - new hardstanding overrun area to be constructed

Manual steering of trailer required to minimise overrun

Oversail of verge

Temporary removal of 2no. chevron signs

Rev.	Date	Revision details	Drawn	Checked	Approved

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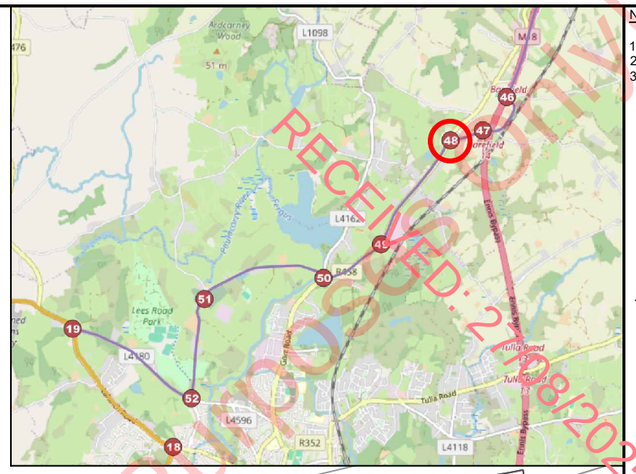
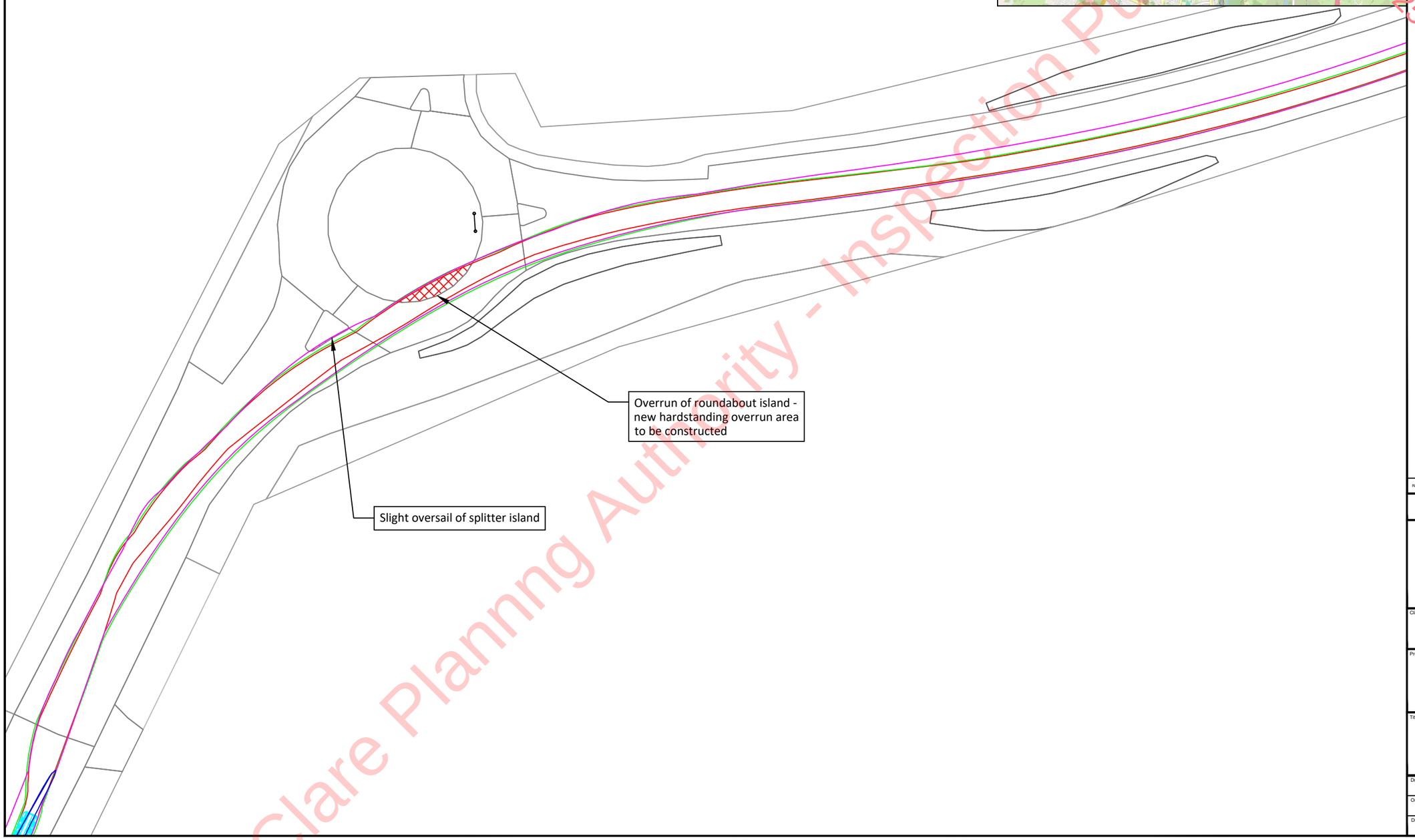
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 47
Sheet 2 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA058	Rev.: -





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Key:

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

Rev.	Date	Revision details	Drawn	Checked	Approved

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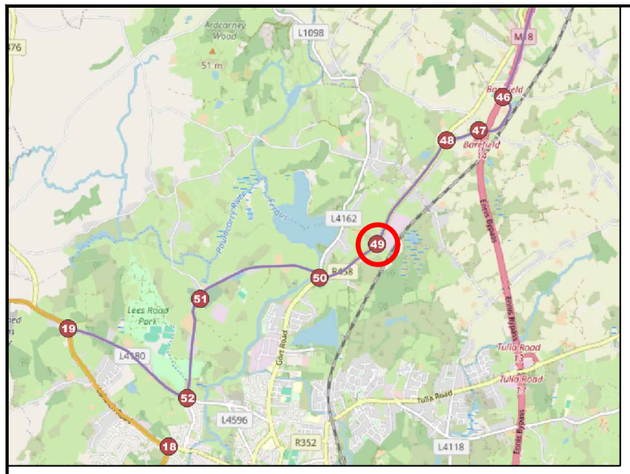
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 48

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA059	Rev.: -



Temporary removal of 1no. bollard and 1no. traffic sign

Manual steering of trailer required

Overrun and oversail of splitter island - transition ramp may be required to enable TDV to mount kerb

Temporary removal of 2no. traffic signs

Overrun of raised roundabout island - new hardstanding overrun area to be constructed

Overrun and oversail of splitter island - transition ramp may be required to enable TDV to mount kerb

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N

Key:

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- 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: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 49

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA060	-

Overrun and oversail of verge and third party land - significant works would be required

Overhead telecommunication cable - height to be checked on site

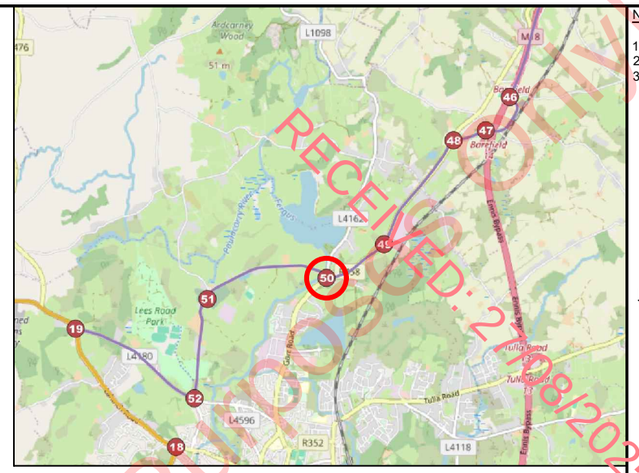
Temporary removal of 1no. utility pole and 1no. traffic sign

Very narrow and likely weak bridge - unlikely to be suitable for TDV

Navigation of pinch point would require TDV to reverse - which is technically achievable but likely to be challenging in practice

Oversail of verge and potential third party land - hardstanding and grading likely required

Temporary removal of 1no. utility pole and 1no. traffic sign



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- 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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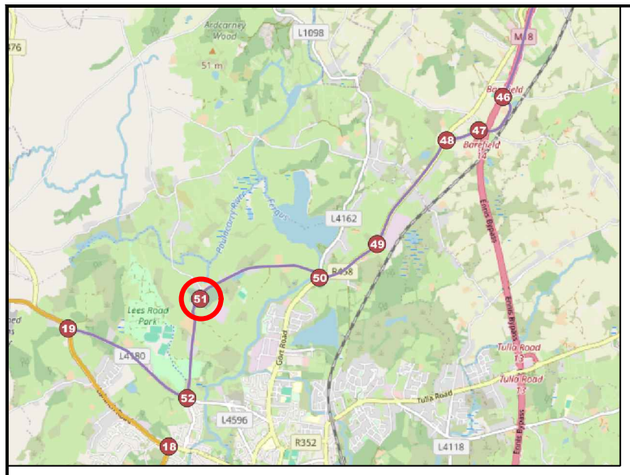
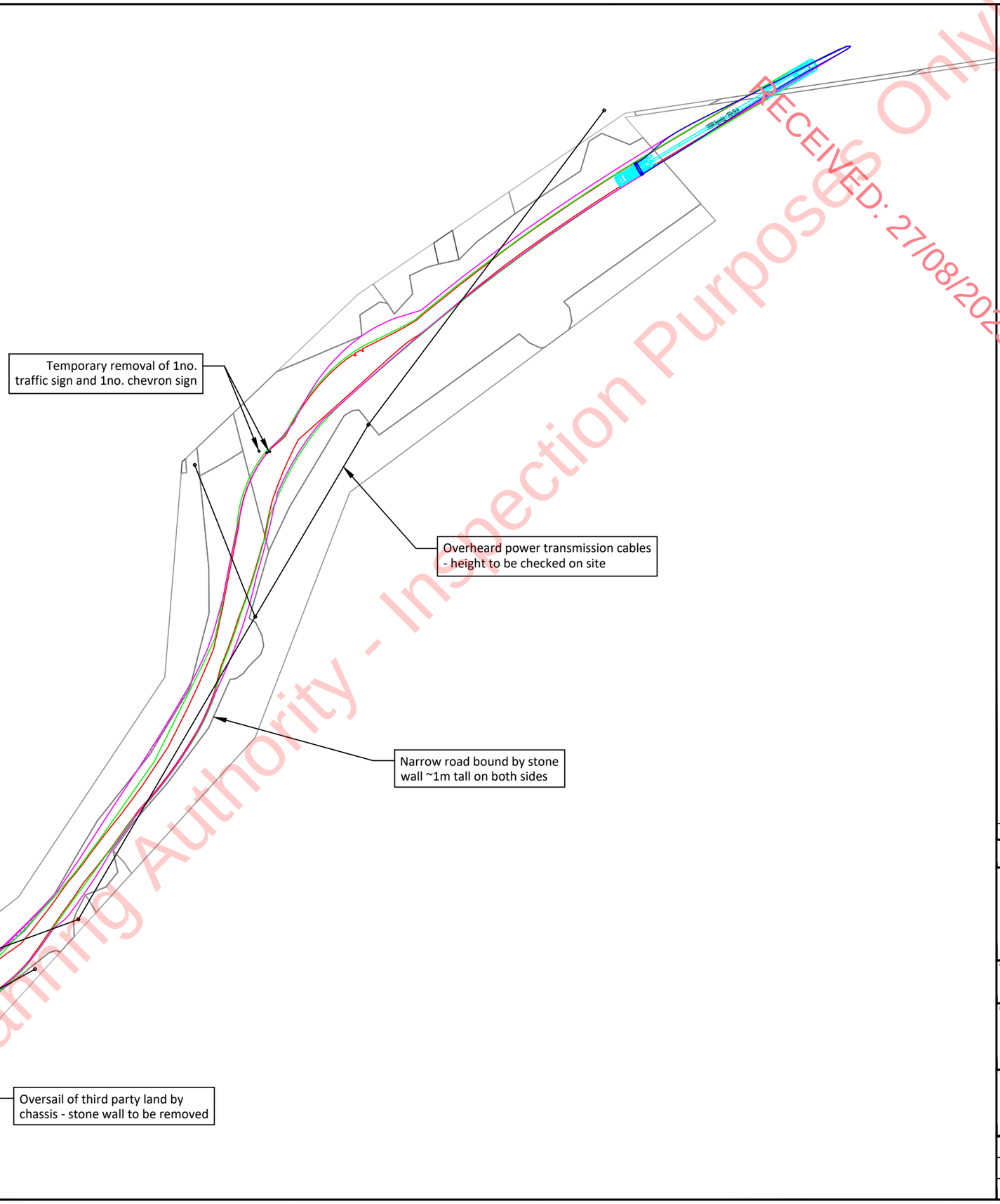
Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 50

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:750
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA061	Rev.: -





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N

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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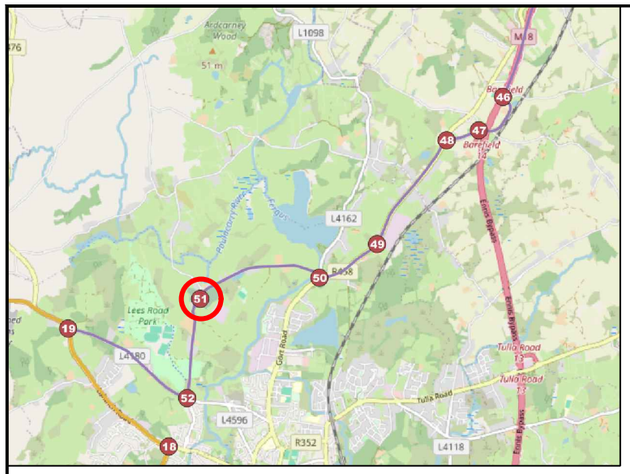
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 51
Sheet 1 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:1000
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA062	Rev.: -



Oversail of third party land by chassis - stone wall to be removed

Slight oversail of chassis into potential third party land - small section of stone wall to be removed

Overhead telecommunications cables - height to be checked on site

Road bound by stone wall to the east

Slight oversail of verge

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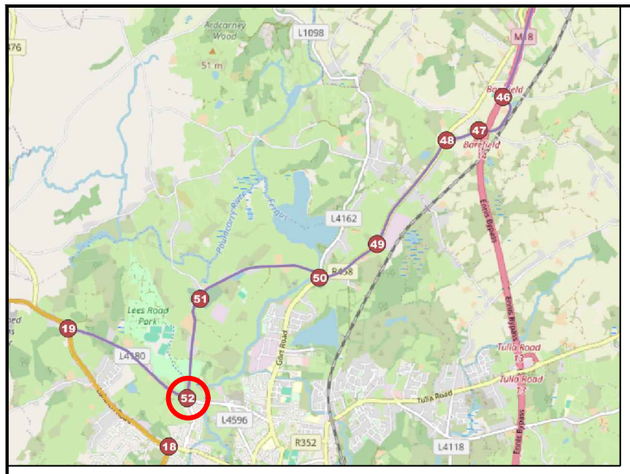
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 51
Sheet 2 of 2

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:1000
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA063	Rev.: -



Overhead power transmission cables - height to be checked on site

Overhead telecommunications cable to be temporarily grounded

Temporary removal of 5no. traffic signs and 2no. utility poles

Temporary removal of 1no. traffic sign

Overrun and oversail of verges and potential third party land

New hardstanding overrrun area required

Slight overrun of footway - transition ramp may be required to enable TDV to mount kerb

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Rev.	Date	Revision details	Drawn	Checked	Approved

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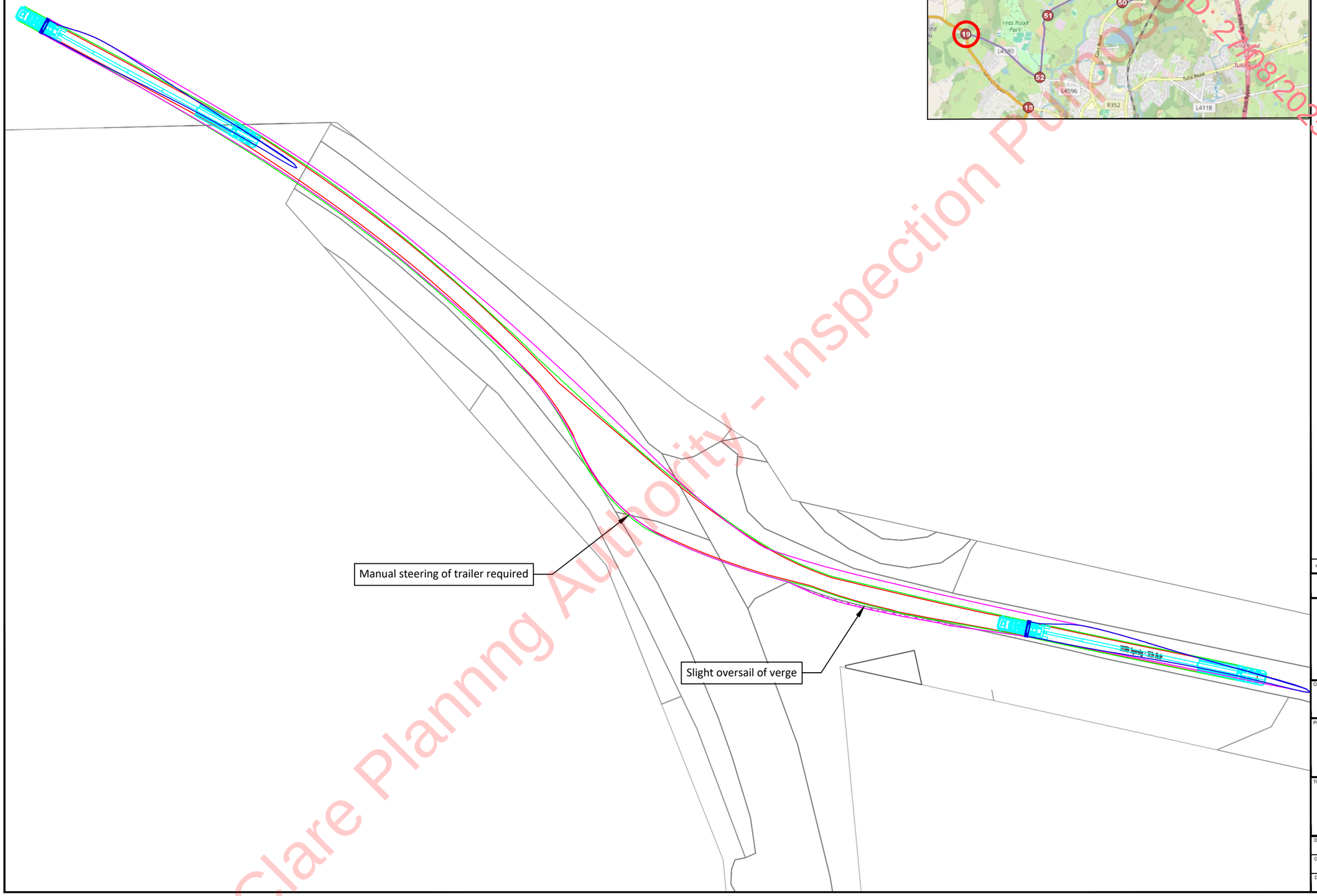
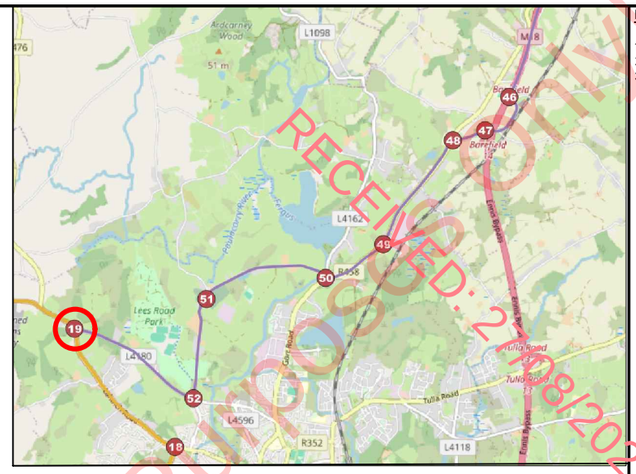
Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 52

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:500
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA064	Rev.: -





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Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Pinch Point 19
From the East

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:750
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA065	-

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Client: Gavin & Doherty Geosolutions

Project: Illaunbaun Wind Farm
Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Alternative For Route 2 - N18 J9
Sheet 1 of 6

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA066	-

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- Over-sail area of tractor and trailer bed out with carriageway
- Over-sail area of blade out with carriageway

Temporary removal of 2no. traffic signs and 1no. lighting column

Oversail of verge

Temporary removal of 2no. traffic signs

Temporary removal of 3no. traffic signs

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Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Alternative For Route 2 - N18 J9
Sheet 2 of 6

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA067	-

Temporary removal of 3no. traffic signs

Temporary removal of 3no. lighting columns

Oversail of verge - trimming of vegetation may be required

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Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Alternative For Route 2 - N18 J9
Sheet 3 of 6

Drawn	Checked	Approved
TF	ADV	ADV
Original drg. size: A3	Date: 16/10/2024	Scale: 1:500
Drawing Status: Information	Drawing Number: GB01T23F60/I/SPA068	Rev.: -

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- Over-sail area of blade out with carriageway

Oversail of verges

Temporary removal of 1no. chevron sign

Oversail of verges

Temporary removal of 2no. lighting columns

Temporary removal of 3no. traffic signs and 1no. lighting column

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Swept Path Assessment

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Vestas V117 - 57.2m Blade
Alternative For Route 2 - N18 J9
Sheet 4 of 6

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Swept Path Assessment

Title: Super Wing Blade Carrier
Vestas V117 - 57.2m Blade
Alternative For Route 2 - N18 J9
Sheet 5 of 6

Drawn	Checked	Approved
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Original drg. size	**Date**	**Scale**
A3	16/10/2024	1:500
Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA070	-

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Alternative For Route 2 - N18 J9
Sheet 6 of 6

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Original drg. size	**Date**	**Scale**
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Drawing Status	**Drawing Number**	**Rev.**
Information	GB01T23F60/I/SPA071	-

SYSTRA provides advice on transport, to central, regional and local government, agencies, developers, operators and financiers.

A diverse group of results-oriented people, we are part of a strong team of professionals worldwide. Through client business planning, customer research and strategy development we create solutions that work for real people in the real world.

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