

Technical Appendix 13.2: Achany Extension Wind Farm

Route Survey Report



SSER

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Achany Extension Wind Farm



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1. INTRODUCTION

Report Purpose

- 1.1 Tetra Tech has been commissioned by SSE Renewables (hereafter to be known as SSER) to undertake a route review for the delivery of abnormal loads associated with the proposed Achany Extension Wind Farm. This report reviews the constraints associated with the transportation of wind turbine components from the Port of Invergordon and Nigg Port to the proposed site located west of Lairg, Highland.
- 1.2 Tetra Tech has been commissioned to prepare this route survey report as a source of guidance. The report identifies the key points and issues associated with the routes that may require remedial works to accommodate the predicted loads. The detailed design of these remedial works, however, are beyond the agreed scope of works. It is the responsibility of the turbine supplier (depending on contractual arrangements) to ensure that the access route from the Port of Entry (POE) to the road transfer point is fit for purpose and that appropriate consideration for all road users has been made in accordance with the relevant health and safety legislation and ruling transport requirements.
- 1.3 This report has been prepared in accordance with instructions from SSER on the above project details. No liability is accepted for the use of all or part of this report by third parties.
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Report Structure

1.5 Following this introduction, the proceeding chapters of the report are structured as follows:

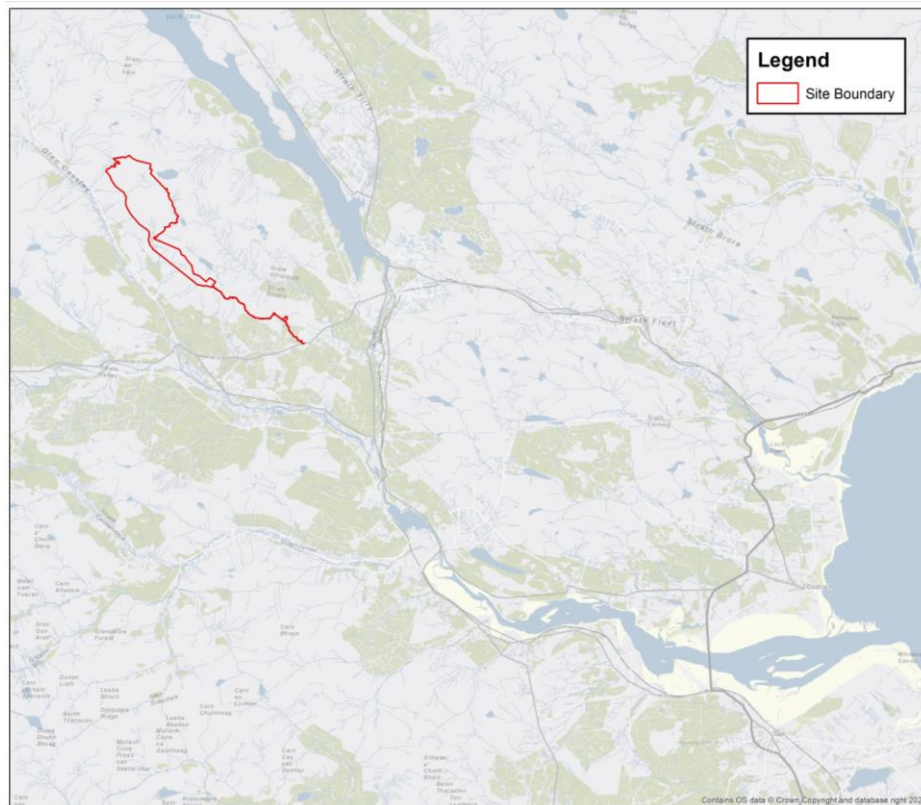
- **Chapter Two** describes the location of the proposed wind farm development;
- **Chapter Three** describes the route options reviewed on the Site visit along with areas of potential significant constraints;
- **Chapter Four** details a Framework Traffic Management Plan; and
- **Chapter Five** provides a summary of the report and an outline of suggested further works, actions and recommendations for consideration.

2. PROPOSED SITE AND ACCESS STRATEGY

Site Description and Location

- 2.1 The proposed Achany Extension Wind Farm (Proposed Development) is approximately 11km west-north-west of Lairg, Highland. The Site entrance is illustrated below in Plate 2-1.

Plate 2-1: Site Location



Candidate Turbine

- 2.2 SSER have indicated they are considering either a Vestas V136 turbine or Nordex N133 turbine as the potential component for the proposed site extension. The final choice of turbine would be dependent on economics and available technology at the time of construction.
- 2.3 Tetra Tech has assumed the worst case loads of the proposed turbines to be the 66.7m blade carried in a Super Wing Carrier type trailer with the worst case tower (mid-section)

carried in a 4+7 axle clamp trailer. The worst-case dimensions are illustrated within Table 2-1 below.

Table 2-1: Worst-case Components

Component	Length (m)	Maximum Width on Vehicle (m)
Vestas V136 Blade	66.7	4.3
Vestas V136 Mid Tower (Hybrid)	29.96	4.3

- 2.4 At this point in time, no assessment of the erection crane has been undertaken.
- 2.5 Tetra Tech has assumed that all loads will follow the relevant manufacturers transport guidelines. The components can be delivered on a variety of transport platforms all of which feature independent rear wheel steering and would be provided with both Police and civilian escorts.
- 2.6 The Super Wing carrier allows the load overhang at the rear of the trailer to be adjusted when loaded by use of a sliding bolster and load rack and can utilise rear-wheel steering.
- 2.7 The Tower, Hub and Nacelle components can be delivered on a variety of transport platforms all of which feature independent rear-wheel steering.
- 2.8 Photos 2-1 and 2-2 illustrate similar components being delivered.

Photo 2-1: Indicative Blade in Super Wing Trailer



Photo 2-2: Indicative Tower Component Transport Configurations



3. ROUTE REVIEW

Route Overview

- 3.1 A route review has been undertaken by video survey from both the Port of Invergordon and the Port of Nigg through to the Proposed Development access in March 2020. This method allows a full record of the route to be undertaken, with notes recorded following completion of the survey. Not only is this process efficient, it also provides a much safer working environment for staff. The video survey allows a full record of the route to be kept for future reference. To accompany the video survey, various Points of Interest (POI) were recorded using a Global Positioning System (GPS) tracker that logs the locations of points on the routes to Ordnance Survey (OS) co-ordinates.
- 3.2 Access to the Proposed Development could be taken from a number of suitable ports of entry (POE) such as Invergordon or Nigg Port. These ports provide direct access onto the trunk road network and have experience as renewable energy delivery hubs.
- 3.3 Invergordon has been extensively used by the abnormal load and wind farm industries in the past. Multiple wind farms to the north of Inverness, excluding Caithness sites, have used Invergordon. The port was utilised for deliveries to Lairg, Gordonbush and Lochluichart Wind Farms.
- 3.4 The Port of Nigg is a major hub for the offshore wind market and recently served as the POE for the Gordonbush Wind Farm extension delivering Siemens Gamesa SG132 turbines. There are large areas for component storage at the port which are currently in use for offshore developments.
- 3.5 While both ports have previously been utilised for the delivery of wind turbine components and either would be suitable as a POE, Nigg is considered to be the preferred option from a transport and access perspective based on recent experience of handling components of a similar size relating to Gordonbush Wind Farm extension, easy access to the strategic road network and limited mitigation requirement
- 3.6 This report is informed by Tetra Tech's experience and knowledge of Abnormal Indivisible Load (AIL) transport movements in this area gained from consulting on recently successful AIL deliveries in the area such as Gordonbush Wind Farm and prior site visits in the area reviewing both routes under consideration.

Achany Extension Wind Farm



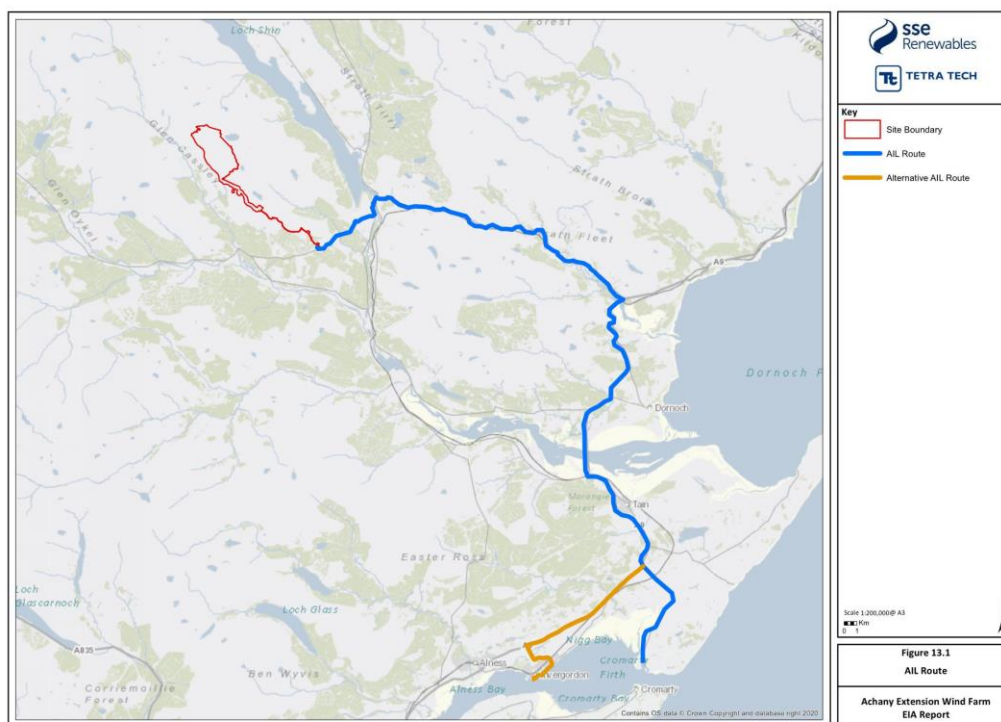
- 3.7 The site visit did not include any geotechnical, utility or environmental reviews and as such the information provided in this report is based solely on the observations noted on the site visit and subsequent swept path assessments.
- 3.8 Plans illustrating the location of the constraints and a detailed list of POIs are provided in Appendix A.

4. ROUTE DESCRIPTION

4.1 It is proposed that all loads will follow the preferred access route described below and as shown in Plate 3-1:

- Depart the Port of Nigg and proceed northbound on the B9175,
- Contraflow the Nigg Roundabout joining the A9 northbound,
- Loads will proceed north on the A9, loads will contraflow the A9 / A836 roundabout at Tarlogie,
- Loads will continue northbound on the A9 to The Mound where loads will exit the A9 left onto the A839,
- Loads will continue westbound on the A839 towards Lairg before either
- Turning left onto the A836 and proceeding south, or
- Turning right onto the A836 and proceeding to a suitable location to u-turn before proceeding south,
- Loads will exit the A836 crossing Black Bridge and joining the A839, and
- Loads will continue on the A839 westbound, approximately 4.2km, towards the Achany Extension Wind Farm site access.

Plate 4-1: Proposed Access Route







- 4.2 Within the Proposed Development, loads would then proceed ahead to the turbine locations. All on-site access roads should be designed to the selected turbine manufacturers minimum standards and as such are excluded from this report.



Network Constraints

- 4.3 This section outlines the potential constraint locations to the movement of the proposed turbine components and Table 3-1 details the potential constraint point locations on the route from the expected POE: The Port of Nigg, through to the proposed site access.
- 4.4 Plans illustrating the location of constraints at Points of Interest (POI) are provided in Appendix A and a detailed description of mitigation requirements is provided below in Table 3-1.



Table 4-2: Route Constraint Points



POI	Key Constraint	Details
1	<p>Port of Nigg Exit</p> 	<p>Loads will exit the Port of Nigg turning left and proceed northbound on the B9175.</p> <p>Loads would approach the exit junction from the existing parking area within the port and the approach agreed with the port authorities should be cleared of all street furniture and obstacles including lighting columns, signs and fencing. The exit splitter island should be provided with a load bearing surface and two bollards should be removed. Loads will over-run and over-sail the eastern footway and verge of the B9175 where a load bearing surface should be laid and the land reprofiled to carriageway level. Vegetation should be cleared.</p> <p>Discussions should be held with the Port Authority to ensure that the required land is available. All street furniture should be cleared from these areas.</p> <p>Swept path drawings SPA001 are included in Appendix B.</p>




POI	Key Constraint	Details
2	B9175 Lower Pitcalzean 	<p>It is recommended that a full overhead utility search is carried out along the route to ensure that height clearances are suitable for normal temperature ranges.</p>
3	B9175 Pitcalnie 	<p>Tree canopy and vegetation to be trimmed back along the route.</p> <p>Loads will occupy the entire carriageway through multiple bends throughout the route. A rolling escort is required to hold oncoming traffic back at least 60m in advance of all junctions and pinch points.</p>
4	B9175 East of Glastullich 	<p>Escorts to seek permission to transit through the level crossing from Network Rail.</p>



POI	Key Constraint	Details
5	A9 / B9175 Nigg Roundabout 	<p>Loads will undertake a contra flow manoeuvre through the roundabout.</p> <p>Loads will over-sail the north eastern verge on approach to and exit from the roundabout. Loads will over-run and over-sail the north eastern edge of the roundabout island where a load bearing surface should be laid and one lit chevron sign should be removed.</p> <p>Swept path drawings SPA002 are included in Appendix B.</p>
6	A9 Utilities 	<p>It is recommended that a full overhead utility search is carried out along the route to ensure that height clearances are suitable for normal temperature ranges.</p>




POI	Key Constraint	Details
7	<p>A9 / A836 Roundabout</p> 	<p>A9 / A836 Roundabout</p> <p>Loads will take the second exit at the junction and will continue northbound on the A9. A contraflow manoeuvre of the junction is required.</p> <p>Loads will over-sail the southern verge and north eastern verge on entry and exit from the roundabout. Loads will over-run and over-sail the northern edge of the approach road splitter island where a load bearing surface should be laid, and one bollard and one road sign should be removed. Loads will over-run and over-sail the north eastern edge of the roundabout island where a load bearing surface should be laid, and vegetation and trees should be removed.</p> <p>Bear Scotland have requested that vehicles should not cross Dornoch Bridge in close convoy.</p> <p>Swept path assessment drawing SPA003 is included in Appendix B.</p>
8	<p>A9 / A949 Junction Left Bend and Evelix New Bridge</p> 	<p>Vehicles should be banned from making the right turn from the A9 onto the A949 when the convoy is passing as loads will over-sail into the right turn lane.</p> <p>Bear Scotland have previously requested that loads are restricted to the centreline and cross the bridge at a slow speed.</p> <p>OSGR: 276820, 890450</p>



POI	Key Constraint	Details
9	A9 Right Bend Evelix 	<p>Loads will occupy the entire carriageway through the bend.</p> <p>Loads will over-sail the western verge on entry to the bend and the south eastern verge on exit from the bend, one road sign should be removed to improve overall clearances.</p> <p>Swept path drawings SPA004 are included in Appendix B.</p>
10	A9 Right Bend South of Cambusavie 	<p>Loads will proceed ahead around the right-hand bend.</p> <p>Loads will over-run and over-sail the western verge where a load bearing surface should be laid and two road signs and all traffic bollards should be removed. All underground utilities should be protected. Loads will over-sail the verge on the inside of the bend where vegetation should be cleared.</p> <p>Swept path assessment drawing SPA005 is included in Appendix B.</p>



POI	Key Constraint	Details
11	A9 Right Bend Near Cambusvie 	<p>Loads will proceed ahead through this section of road.</p> <p>Loads will over-run and over-sail the verge on the outside of the right bend where a load bearing surface should be laid. Six chevron signs and seven bollards will need to be removed and the blade tip will over-sail eight bollards. The tree canopy should be trimmed to allow load over-sail of the verge on the inside of the bend. Loads will over-sail the verge on the inside of the bend where trees and a section of wall should be removed.</p> <p>It is recommended that due to the constrained nature of the bend, a topographical survey is completed, and the swept path assessment repeated.</p> <p>Swept path drawings SPA006 are included in Appendix B.</p>
12	A9 Left Bend North of Cambusvie Cottage 	<p>Loads will over-sail the verge on the inside and outside of the left bend where one road sign should be removed.</p> <p>Due to the sinuous alignment of the section and the amount of tree canopy cover a test-run is recommended through this section.</p> <p>Swept path drawings SPA007 are included in Appendix B.</p>




POI	Key Constraint	Details
13	A9 Gatehouse 	<p>No physical mitigation is expected at this bend however loads will require the full width of the carriageway and over-sail close to the carriageway edge. Trees and vegetation to be trimmed back throughout the area.</p> <p>Swept path drawings SPA008 are included in Appendix B.</p>
14	A9 Right Bend South of Cambusmore Lodge 	<p>Loads will proceed ahead through this section of road.</p> <p>Loads will over-sail the inside verge through the bend. No physical mitigation measures are required.</p> <p>Swept path drawings SPA009 are included in Appendix B.</p>
15	A9 Right Bend Cambusmore Lodge and Fleet New Bridge 	<p>Loads will proceed ahead through this section of road.</p> <p>Loads will over-sail the inside verge through the bend. No physical mitigation measures are required.</p> <p>Bear Scotland have previously requested that loads don't cross Fleet New Bridge in close convoy (OSGR 277560, 898190).</p> <p>Swept path drawings SPA010 are included in Appendix B.</p>




POI	Key Constraint	Details
16	A9 / A8893 Left Turn, the Mound 	<p>Loads will turn left onto the A839.</p> <p>Loads will over-sail the southern verge on approach and the verge on the inside of the left turn at the junction where one bollard and one road sign should be removed, and loads will also over-sail the splitter island. Embankment reprofiling may be required. It is recommended that the extent of adopted boundary is confirmed. Along the length of the route trees and vegetation should be cleared back from the carriageway and adopted verge in adherence to minimum standards.</p> <p>Swept path assessment drawing SPA011 is included in Appendix B.</p>
17	A839 Pittentrail 	<p>Loads will continue north on the A839.</p> <p>Loads will over-sail the western verge on entry to the town and over-sail the eastern footway where a section of pedestrian guardrail should be removed and parking prohibited through Temporary Traffic Restriction Order (TTRO) during the delivery window. Loads will over-run and over-sail the eastern and western footways through the left-hand bend where load bearing surfaces should be laid. Proximity to one lighting column and one road sign to be confirmed exiting the section. Due to the constrained nature of this location a test-run is strongly recommended.</p> <p>Some deterioration of carriageway was observed at this location, a re-assessment of the road condition should be undertaken in advance of load delivery.</p> <p>Swept path assessment drawing SPA012 is included in Appendix B.</p>




POI	Key Constraint	Details
18	A839 West Pittentrail 	<p>Loads will continue west on the A839.</p> <p>Loads will over-sail the inside of the bend where two road signs should be removed or set-back.</p> <p>Swept path assessment drawing SPA013 is included in Appendix B.</p>
19	A839 Left Bend, Rovie Lodge 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed and two bollards to be over-sailed.</p> <p>Swept path assessment drawing SPA014 is included in Appendix B.</p>
20	A839 Right Bend, Torbreck 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed. One road sign to be set-back.</p> <p>Swept path assessment drawing SPA015 is included in Appendix B.</p>



POI	Key Constraint	Details
21	A839 Left Bend, Tressady 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>Swept path assessment drawing SPA016 is included in Appendix B.</p>
22	A839 Right Bend, Blarich Schoolhouse 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>Swept path assessment drawing SPA017 is included in Appendix B.</p>


POI	Key Constraint	Details
23	A839 Series of Bends 	<p>Loads will over-sail close to the carriageway edge and possibly into the adopted verge. Trees and vegetation to be trimmed back.</p>
24	A839 Right Bend, Milton 	<p>Loads will over-sail both sides of the carriageway. Vegetation and tree canopy to be trimmed back from the carriageway and load over-sail areas.</p> <p>Swept path assessment drawing SPA018 is included in Appendix B.</p>

POI	Key Constraint	Details
25	A839 Series of Bends 	<p>Loads will over-sail close to the carriageway edge and possibly into the adopted verge. Tree canopy and vegetation to be trimmed back from the carriageway and load over-sail areas.</p>
26	A839 Double Bend Approaching Rhaoine  	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>The ordnance survey mapping was noted to differ from the carriageway alignment on site and an indicative road edge has been provided for illustration only, a test run is recommended.</p> <p>Swept path assessment drawing SPA019 is included in Appendix B.</p>

POI	Key Constraint	Details
27	A839 Left Bend Near Rhaoine 	<p>Loads will over-sail both sides of the carriageway. Tree canopy and vegetation to be trimmed back from the carriageway and load over-sail areas.</p> <p>Swept path assessment drawing SPA020 is included in Appendix B.</p>
28	A839 Potential Vertical 	<p>Assessment of vertical alignment recommended to be undertaken.</p>
29	A839 Right Bend East of Lairg 	<p>Loads will over-sail both sides of the carriageway. Tree canopy and vegetation to be trimmed back from the carriageway and load over-sail areas.</p> <p>A test-run or topographical survey is recommended at this location to confirm clearances to tree line and rock face.</p> <p>Swept path assessment drawing SPA021 is included in Appendix B.</p>


POI	Key Constraint	Details
30	A839 Left Bend Approaching Lairg 	<p>Loads will over-sail both sides of the carriageway. Tree canopy and vegetation to be trimmed back from the carriageway and load over-sail areas.</p> <p>Swept path assessment drawing SPA022 is included in Appendix B.</p>
31	A839 Left Bend Approaching Lairg 2 	<p>Loads will over-sail both sides of the carriageway. Tree canopy and vegetation to be trimmed back from the carriageway and load over-sail areas.</p> <p>Swept path assessment drawing SPA023 is included in Appendix B.</p>
32	A839 Right Bend Approaching Lairg Main Street 	<p>Loads will over-run and over-sail the outside of the bend where a load bearing surface should be laid and the ditch culverted. Limits of adoption to be confirmed through this section. Loads will over-sail the inside bend where the proximity to the fence-line should be confirmed.</p> <p>Swept path assessment drawing SPA024 is included in Appendix B.</p>



POI	Key Constraint	Details
33	A839 Main Street, Lairg 	<p>Loads will over-sail the northern footway.</p> <p>No physical mitigation is expected.</p> <p>Swept path assessment drawing SPA025 is included in Appendix B.</p>
34A	A839 / A836 Lairg Left Turn 	<p>Option 1 - Left Turn</p> <p>Loads will turn left and continue south on the A836.</p> <p>Loads will over-sail the northern footway and over-run and over-sail the southern and western footways where a load bearing surface is to be laid. On the inside of the turn, embankment re-profiling is required, two lighting columns, three road signs, two public signs, sections of stone wall and stone bench to be removed. A minimum of two trees to be removed and vegetation to be cleared. Planters to be removed. Utilities to be protected.</p> <p>Swept path assessment drawing SPA026A is included in Appendix B.</p>



POI	Key Constraint	Details
34B	<p>A839 / A836 Lairg Right Turn</p> 	<p>Option 2 - Right Turn</p> <p>Loads will turn right and continue north on the A836 to a point suitable to undertake a U-turn and return southbound.</p> <p>Loads will over-sail the south of Main Street on approach where one road sign, one local sign and the over-hanging tree canopy should be removed. Loads will over-run and over-sail both sides of the A836 carriageway where load bearing surfaces should be laid. Two lighting columns, one post and planters should be removed. Stone wall and garden to be over-sailed by loads upon confirmation of vertical clearances.</p> <p>If a location is selected for a U-turn to be undertaken to the north of Lairg, Tetra Tech recommends that a swept path assessment be made of the reverse manoeuvre location and a route survey assessment undertaken of the route to that point.</p> <p>Swept path assessment drawing SPA026B is included in Appendix B.</p>


<p>35</p>	<p>A836 / A839 Black Bridge, Lairg</p> 	<p>Option A: Loads will over-sail all sides of the carriageway.</p> <p>In the eastern embankment one lighting column and two road signs to be removed. The embankment height should be confirmed to ensure vertical clearances for blade-tip over-sail. Sections of fence may require removal and trees and vegetation to be cleared. Loads will over-sail north and south of the bridge. Five lighting columns, four road signs, and section of fence to be removed or lowered. Bridge guard rail heights to be confirmed suitable for load over-sail. Trees and vegetation to be removed. Limits of adoption to be confirmed on exiting the bridge.</p> <p>A test-run is strongly recommended to confirm vertical clearances over bridge guard-rail and clearances to two OH pylons with stay cables west of the bridge.</p> <p>Option B: Loads will over-sail all sides of the carriageway as above, in addition loads will over-run the eastern verge on approach, the southern footway of the bridge and the western footway on exit from the bridge. A load bearing surface is to be laid in all over-run areas and the load bearing capacity of the bridge footway confirmed. Increased over-sail will occur to the west where one junction box should be confirmed suitable for blade-tip over-sail, embankment re-profiling and retaining structures may be required subject to detailed design, sections of fence to be removed and stone wall removal potentially required. Area to be cleared of all obstructions. West of the A839, one lighting column, two chevron signs, petrol station signage and one planter to be removed. Limits of adoption to be confirmed.</p>
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POI	Key Constraint	Details
		<p>Option C: Mitigation is similar to Option B with greater areas of over-run and over-sail with additional over-run on the bridge northern footway where the load bearing capacity should be confirmed. Over-sail inside of the left turn exiting the bridge is reduced. Re-profiling of the eastern embankment will be required with retaining structures and removal of all obstructions will be required to permit required over-run and over-sail. Additional over-sail will occur north of the bridge where load clearance to the parapet is <0.3m. Loads will over-run and over-sail beyond the footway into the Petrol Station forecourt. One telephone box, one lighting column, one planter, two chevron signs to be removed. All commercial signage to be removed, Petrol Station roof to be removed to increase vertical clearances, and proximity to pumps and building to be confirmed through topographical survey, removal of pumps may be required. Limits of adoption north of the forecourt to be confirmed.</p> <p>A topographical survey is strongly recommended at this location.</p> <p>Swept path assessment drawing SPA027 is included in Appendix B.</p>

POI	Key Constraint	Details
36	A839 Series of Bends, Lairg Free Church 	<p>Loads will over-sail all sides of the carriageway. On approach clearances to the western stone wall are limited and a test-run is recommended. Three road signs to be set back or removed, utilities within the verge to be protected and tree canopy and vegetation to be trimmed back throughout. Limits of adoption to be confirmed throughout.</p> <p>Some mild carriageway edge deterioration was observed following this section, a re-assessment of the road condition should be undertaken in advance of load delivery.</p> <p>Swept path assessment drawing SPA028 is included in Appendix B.</p>

POI	Key Constraint	Details
37	A839 Double Right Bend, Lairg and vertical assessment 	<p>Loads will over-sail all sides of the carriageway.</p> <p>Four road signs to be set back or confirmed outwith over-sail areas, utilities within the verge to be protected and tree canopy and vegetation to be trimmed back throughout. Limits of adoption to be confirmed throughout.</p> <p>It is recommended a test-run or topographical survey is undertaken to ensure the vertical alignment is acceptable for proposed loads.</p> <p>Swept path assessment drawing SPA029 is included in Appendix B.</p>
38	A839 Minor Left Bend, West of B864 	<p>Loads will over-sail the northern and southern verges.</p> <p>The OS mapping carriageway and boundary alignments were found to differ from on-site observations. A test-run is recommended to confirm the extents of the adopted road.</p> <p>Swept path assessment drawing SPA030 is included in Appendix B.</p>

POI	Key Constraint	Details
39	A839 Left Bend Approaching Claonel 	<p>Loads will over-sail the northern and southern verges.</p> <p>No physical mitigation is expected at this location however poor-quality road widening was observed. The entire route should be confirmed to adhere to manufacturer minimum standards.</p> <p>Swept path assessment drawing SPA031 is included in Appendix B.</p>
40	A839 Series of Bends Claonel 	<p>Loads will over-sail all sides of the carriageway however no physical mitigation is expected beyond vegetation being trimmed back. Limits of adoption to be confirmed.</p> <p>Swept path assessment drawing SPA032 is included in Appendix B.</p>



POI	Key Constraint	Details
41	<p>A839 Series of Bends south of Claonel</p> 	<p>Loads will over-sail all sides of the carriageway. Vegetation to be trimmed back from blade web over-sail of the western embankment. One road sign to be removed or relocated.</p> <p>It is recommended a test-run or topographical survey is undertaken to ensure the vertical alignment is acceptable for proposed loads. The road width narrows from this location and it should be ensured the road width is in accordance with turbine manufacturer's minimum standards.</p> <p>Swept path assessment drawing SPA033 is included in Appendix B.</p>

POI	Key Constraint	Details
42	<p>A839 Series of Bends Entering Raemore Wood</p> 	<p>Loads will over-sail all sides of the carriageway and over-run to the south. The OS mapping indicates a <4.5m carriageway width, widening to be undertaken to achieve minimum standards.</p> <p>Vegetation to be cleared from all over-sail areas, one road sign to be removed or relocated and some embankment re-profiling may be required to allow the blade web to over-sail the northern embankment.</p> <p>A test-run is recommended due to both vertical and horizontal fluctuations in the carriageway alignment.</p> <p>Swept path assessment drawing SPA034 is included in Appendix B.</p>

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POI	Key Constraint	Details
<p data-bbox="293 607 331 633">43</p>	<p data-bbox="384 607 895 633">A839 Series of Bends, Raemore Wood</p> 	<p data-bbox="927 607 1431 763">Loads will over-sail both sides of the carriageway. Two telegraph pole stay wires may require realignment to allow loads to pass safely. Vegetation to be trimmed back throughout.</p> <p data-bbox="927 797 1431 864">Swept path assessment drawing SPA035 is included in Appendix B.</p>

POI	Key Constraint	Details
44	A839 Crossing Grudie Burn 	<p>Loads will over-sail both sides of the carriageway. One road sign to be removed and one telegraph stay wire to be realigned to improve clearances. Crossing the bridge, the blade web and blade tip will over-sail the bridge parapet, guard-rail and two bollards. Trees and vegetation to be trimmed back.</p> <p>Swept path assessment drawing SPA036 is included in Appendix B.</p>
45	A839 West of Braemore 	<p>Loads will over-sail both sides of the carriageway. No physical mitigation is expected however the blade tip will over-sail one road sign.</p> <p>Swept path assessment drawing SPA037 is included in Appendix B.</p>

Achany Extension Wind Farm



POI	Key Constraint	Details
<p>46</p>	<p>A839 Series of Bends Approaching Site</p> 	<p>Loads will over-sail both sides of the carriageway. No physical mitigation is expected however the blade tip will over-sail one road sign.</p> <p>Swept path assessment drawing SPA038 is included in Appendix B.</p>
<p>47</p>	<p>A839 / Achany Extension Wind Farm Access</p> 	<p>Loads will exit the A839 turning right into the Site access.</p> <p>Loads will over-sail the inside fence. Loads will over-sail south of the carriageway. The OS mapping does not accurately reflect the alignment of the carriageway width on approach to the Site access or the location of the southern fence line. The blade tip may over-sail the southern fence line.</p> <p>Swept path assessment drawing SPA039 is included in Appendix B.</p>

Swept Path Assessment Results

4.5 The drawings in Appendix B illustrate tracking undertaken at each location with a number of locations. The colours provided on the swept paths are:

- Green – vehicle/trailer outline (body swept path);
- Red – wheel tracked pathway (wheel swept path); and
- Purple – load over-sail tracked path (load swept path).

4.6 Where mitigation works are required, the locations are illustrated on the swept path drawings. Please note that any alterations to the specified load or vehicle details will invalidate the assessment results.

4.7 It is important to note that a number of the swept path assessments undertaken have been based on OS data. There can be measurement errors associated with the use of this data.

4.8 The drawings illustrate the street furniture modifications required to enable transit. The exact individual location of all street furniture in the vicinity of the POIs is not shown as these cannot be accurately plotted on the OS data without recourse to the various road authorities. Please note that Tetra Tech cannot accept any liability for errors on the data source.

Route Summary

4.9 Where noted, SSER should secure the land necessary to accommodate the proposed mitigation along the route. Assuming that the outlined mitigation is performed, either the preferred route from the Port of Nigg or the alternative route from the Port of Invergordon to the Site access is considered feasible for the delivery of proposed components.

Land Ownership and Utilities

4.10 The limits of road adoption can vary depending upon the location of the Site and the history of the adopting agency. In general, the adopted area is that contained within a defined boundary where the local roads authority or Transport Scotland holds the maintenance rights for the land from the original landowner. In urban areas, this is

usually defined as the area from the edge of the footway across the road to the opposing footway back edge.

- 4.11 In rural areas the area of adoption can be open to greater interpretation as defined boundaries may not be readily visible. In these locations, the general rule is that the area of adoption is between established fence / hedges lines or a maximum 2m from the road edge. This can vary between areas and every location can be different.

General Comments

- 4.12 Tetra Tech has undertaken a review of the potential access route from the POE through to the proposed site access. Tetra Tech would strongly suggest that a review of the following is undertaken prior to the delivery of the abnormal loads, to ensure load and road user safety:

- A review of maximum axle loading on structures along the entire access route with the various road agencies is undertaken immediately prior to the loads being transported in case of last-minute changes to structures;
- A review of clear heights with utility providers and the transport agencies along the route.
- The chosen haulier is recommended to ensure with utility providers that there is sufficient clearance with an appropriate safety factor (especially with respect to power lines);
- That any vegetation which may foul the loads is trimmed back to allow passage (this is of concern once the load is on the local road network and should be assessed for summer conditions);
- That there are no roadwork's or closures that could affect the passage of the loads. A check with the affected Council areas and Transport Scotland should be made before the transit of the first abnormal load;
- That a test run is completed to further assess the route for all components and confirm findings of the swept path assessments;
- That there are no new or diverted underground services on the access route that are at risk from the abnormal loads.

5. OUTLINE TRAFFIC MANAGEMENT PLAN

Introduction

- 5.1 This chapter introduces a number of traffic management measures that could help reduce the impact of the abnormal load convoys. These measures are currently presented as indicative and should be confirmed with the Police and Transport Scotland closer to the construction date.

Advance Warning Signage

- 5.2 Advance warning signs would be installed on the approaches to the affected roads network. Temporary signage advising drivers that abnormal loads will be operating could be erected on the sections of the selected route close to the main areas of constraint. Signs such as the example shown in Plates 4.2 and 4.3 could be installed to help assist drivers. Flip up panels (shown in grey) can be used to mask over days where convoys would not be operating. Plate 4.2 illustrates a cover panel secured by clips that would alert drivers that no convoys were operating during that week.

Plate 5-2: Indicative Information Sign

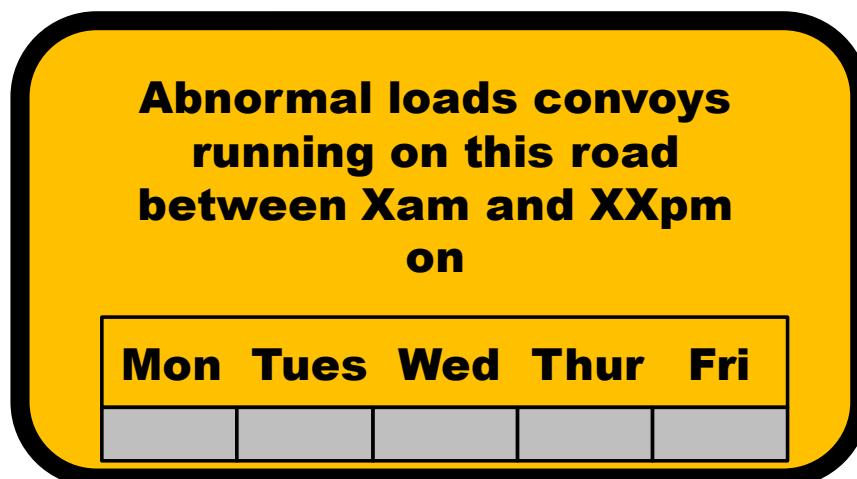
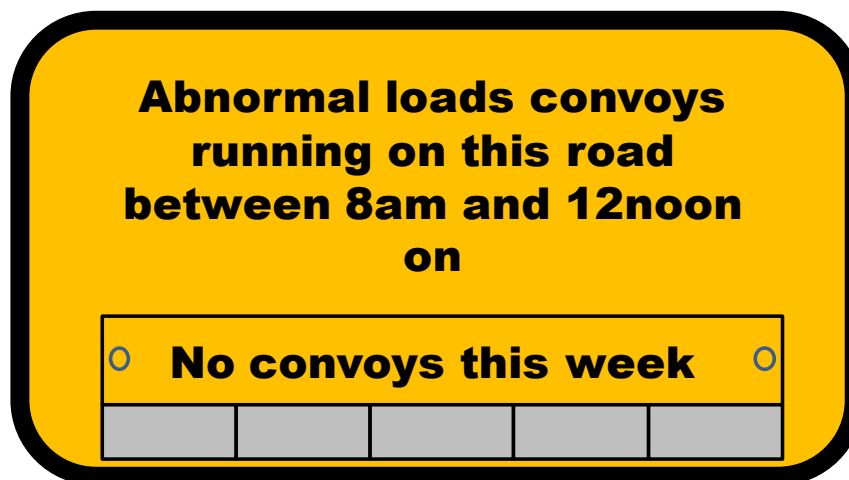


Plate 5-3: Indicative Information Sign



- 5.3 The purpose of this type of signage is to help improve driver information and allow drivers of oncoming traffic to be aware of the potential for wide loads.

Public Information

- 5.4 Information on the movement of abnormal load convoys should be provided to local media outlets to help assist the public. Information could be provided to local newspapers and radio stations that related to expected vehicle movements along the proposed route. It is hoped that this level of information will make residents aware of convoy movements and help reduce any potential conflicts.
- 5.5 Tetra Tech also suggest that the developer may wish to consider producing a local newsletter for distribution to properties along the most affected sections of the proposed access route, advising of convoy movements and the measures put in place to ensure the safe and efficient operation of the road network.

Convoy System

- 5.6 A police escort will be required to facilitate the delivery of the predicted loads. The police escort would be further supplemented by a civilian pilot car to assist with the escort duty. It is proposed that an advanced escort would warn oncoming vehicles ahead of the convoy, with one escort staying with the convoy at all times. The escorts and convoy would remain in radio contact at all times where possible.

- 5.7 It is recommended that abnormal load convoys should be no more than three HGV's long for non-blade convoys (three for blade convoys), to permit safe transit along the delivery route and to allow limited overtaking opportunities for following traffic where it is safe to do so however, a final determination will be made by the relevant authorities after a test-run.
- 5.8 The times in which the convoys would travel will need to be agreed with the local constabularies. Typical delivery times for similar projects has seen the early morning periods used in constrained sections, as traffic levels are generally lighter than those found in the afternoon.
- 5.9 A full convoy operation plan for the route will require to be developed in consultation with Police Scotland, Transport Scotland and the local roads authorities before deliveries commence to the Site.

6. SUMMARY AND FURTHER WORKS

Summary

- 6.1 Tetra Tech has commissioned by SSER to undertake a route review for the delivery of abnormal loads associated with the proposed Achany Extension Wind Farm located to the southwest of Lairg, Highland.
- 6.2 This report identifies the key points and issues associated with the proposed route from the PoE to the Proposed Development access.
 - 6.2.1 The route is considered feasible, subject to the delivery of the proposed mitigation measures.
- 6.3 From this review Tetra Tech would suggest any mitigation works are designed to be permanent to ensure that future wind farm maintenance can be undertaken without the need to re-open land and access rights on site.

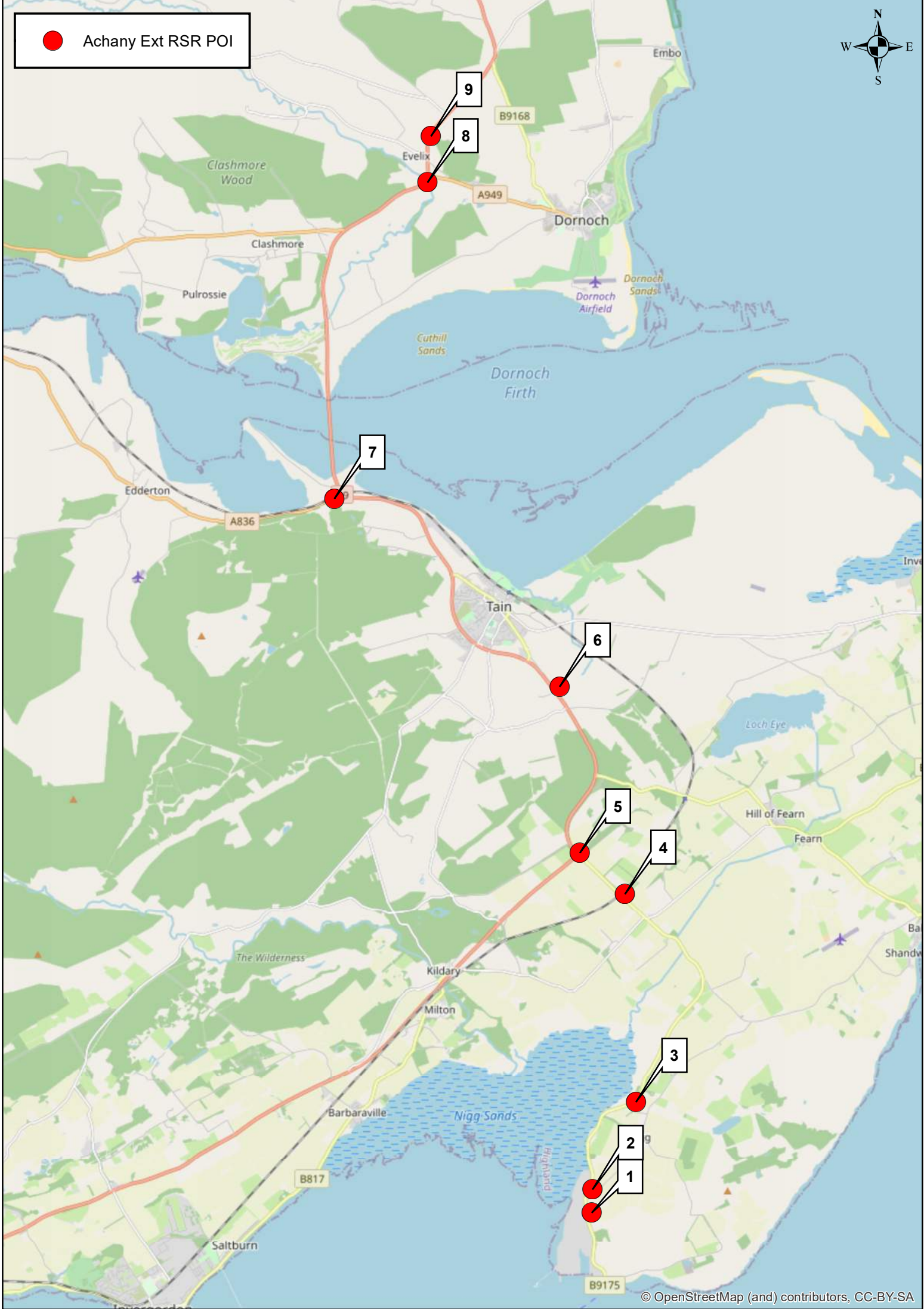
APPENDICES

A. Point of Interest Locations (POI)

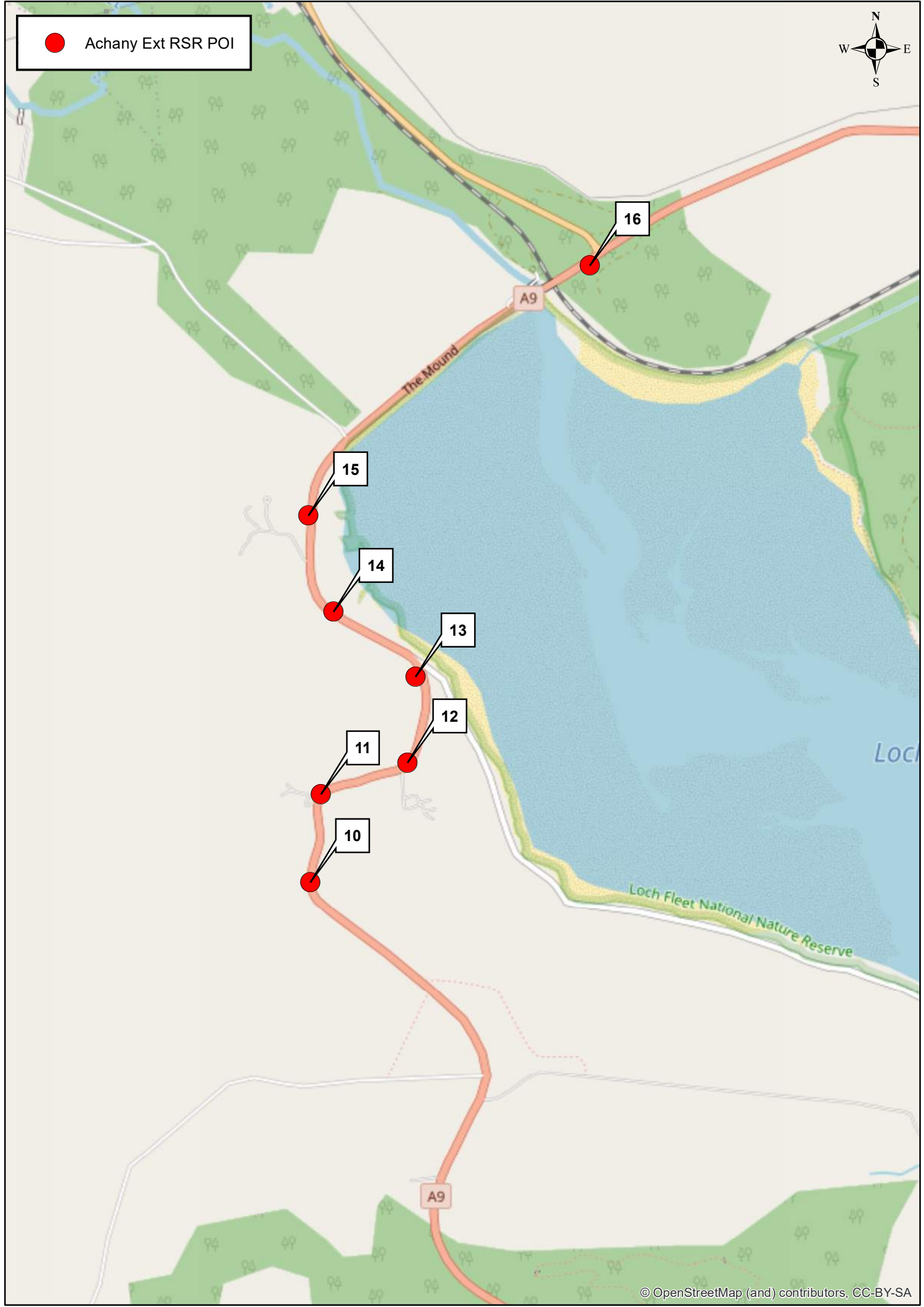
APPENDICES


A. Point of Interest Locations (POI)

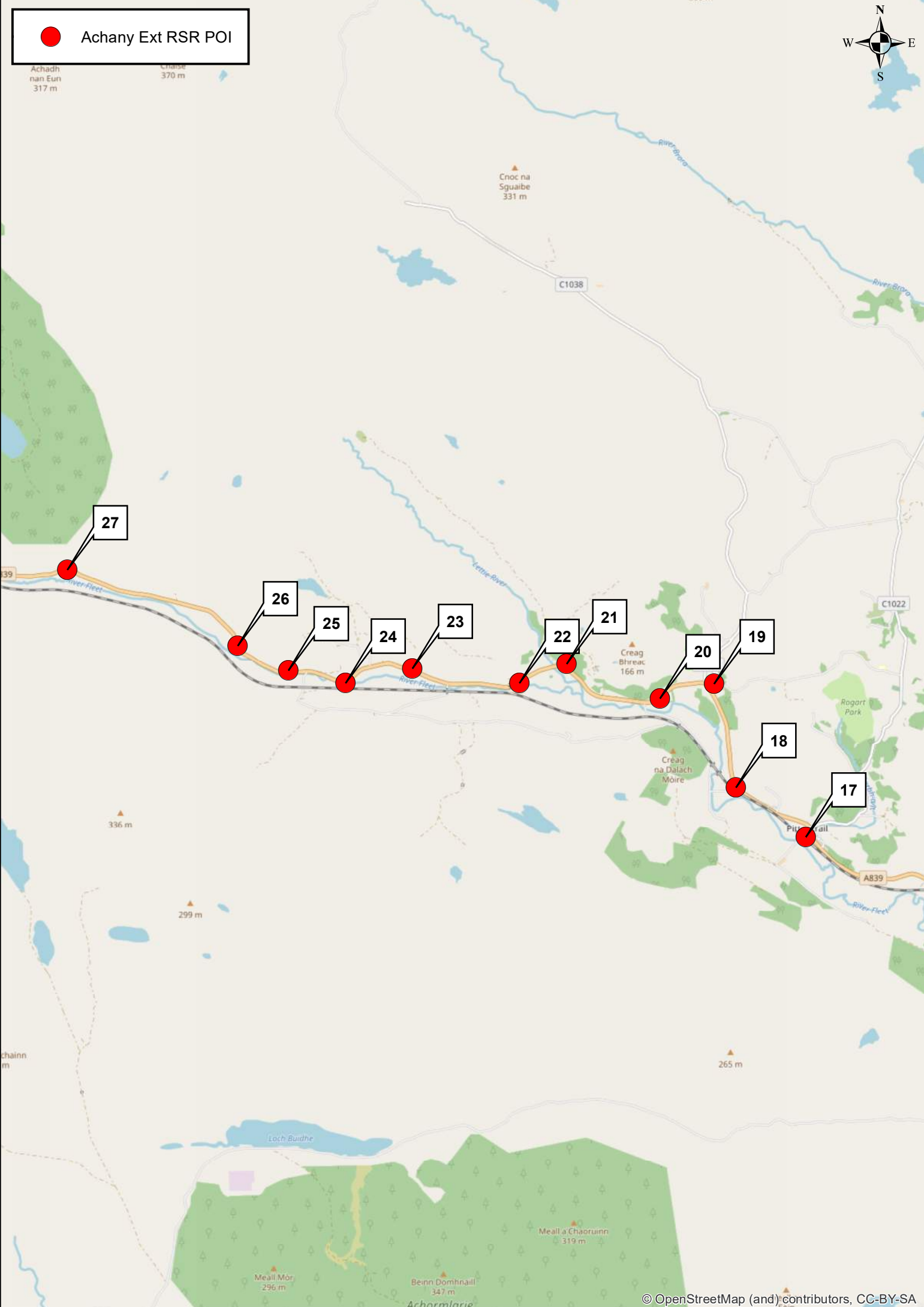
● Achany Ext RSR POI



● Achany Ext RSR POI

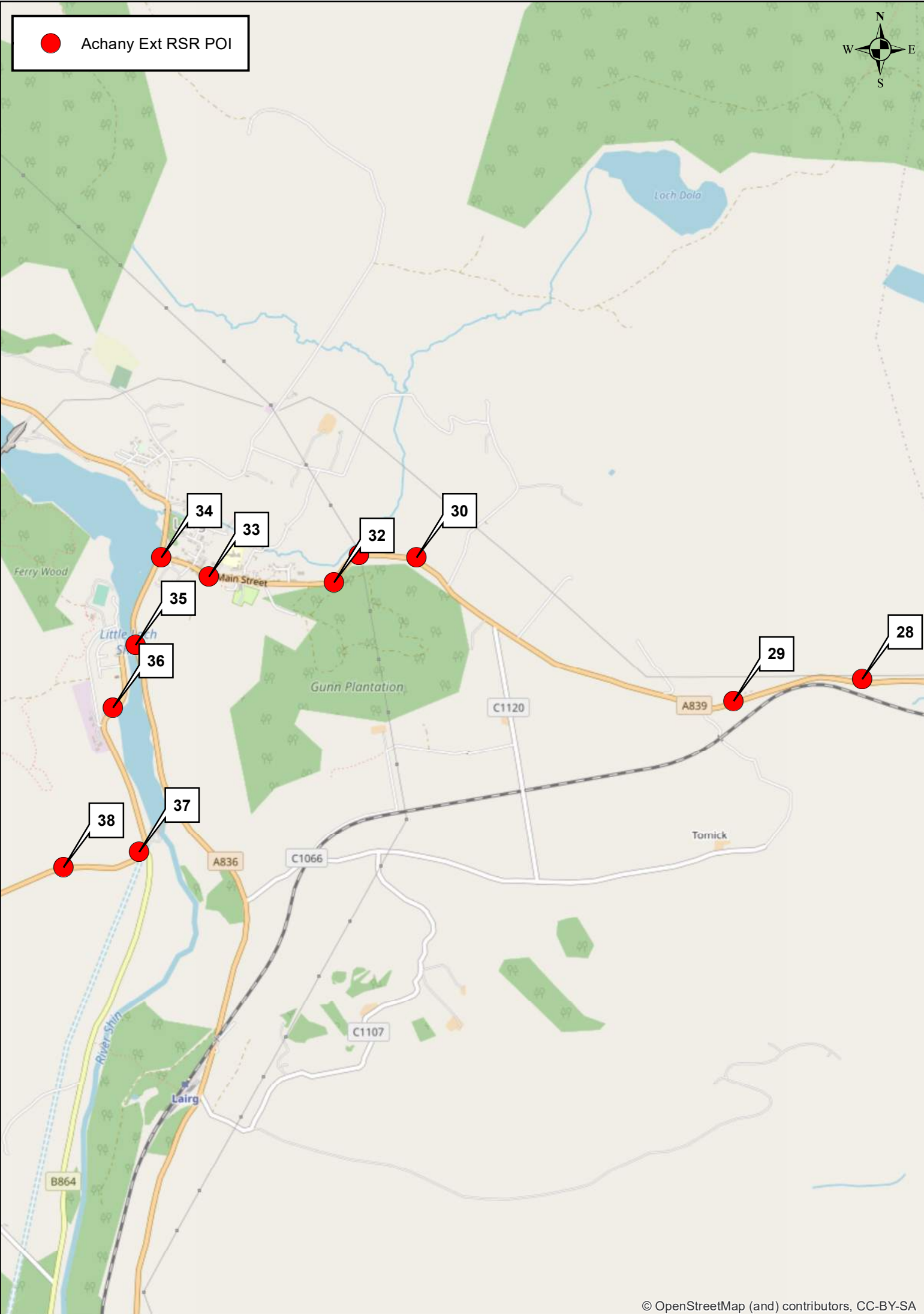


 Achany Ext RSR POI





Achany Ext RSR POI





Achany Ext RSR POI



Meall a'Ghruidh
363 m

47

46

45

44

43

42

41

40

39

A839

B839

C1105

B564

River Shin

Achany Extension Wind Farm



B. Swept Path Assessment (SPA)

B. Swept Path Assessment (SPA)



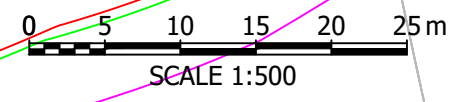
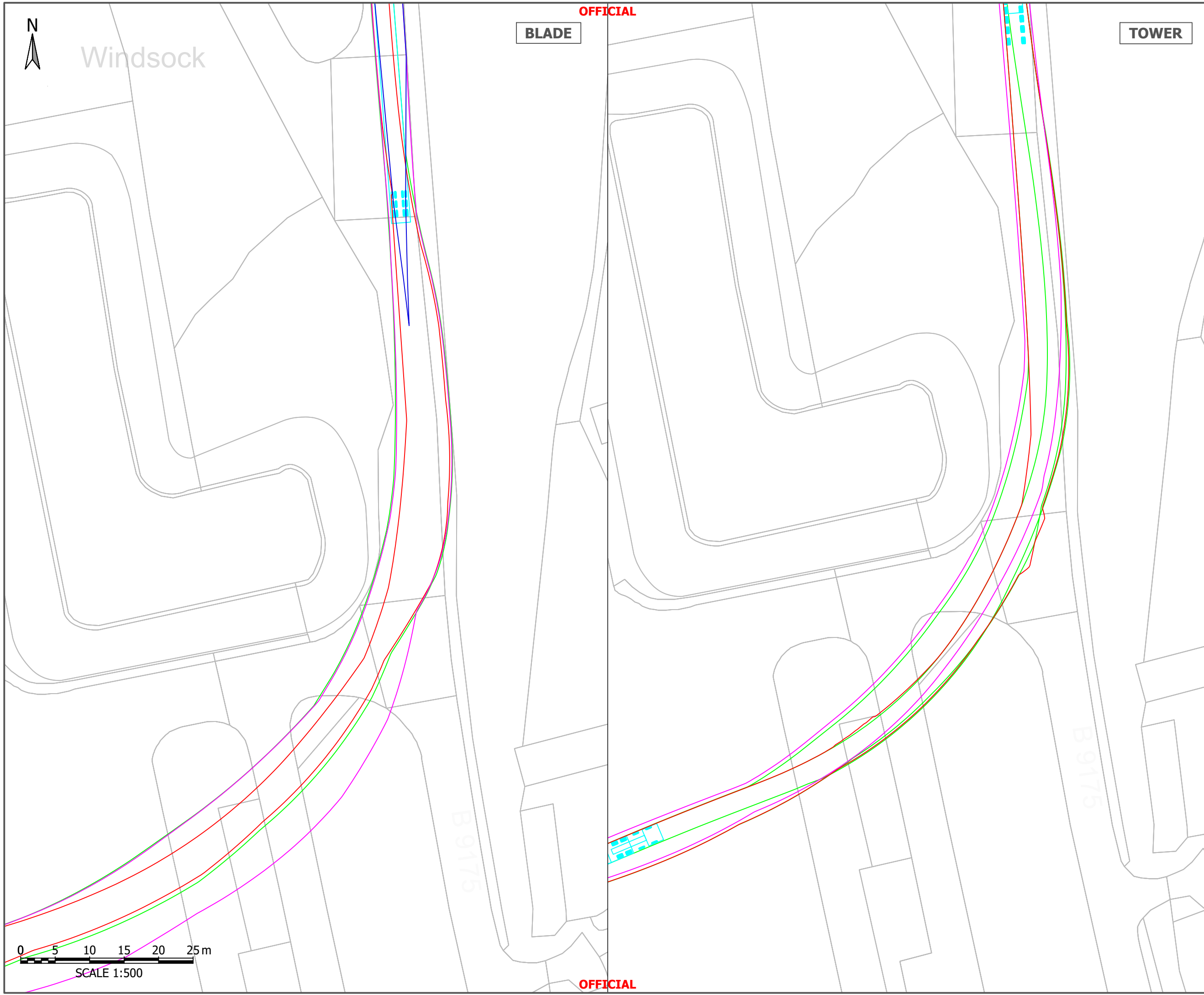
Windsock

BLADE

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TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
1 NIGG PORT / B9175 EXIT

Model Reference	N/A	DDP IDP Reference	LOD/LGI

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WINDSOCK

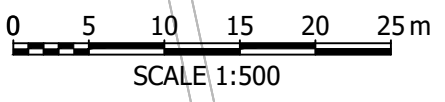
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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING

Load bearing surface to be laid on over-run area.
Vegetation to be cleared.

Load bearing surface to be laid on
splitter island.
Two bollards to be removed.
All street furniture to be removed.

Port authorities to be consulted regarding feasibility of port car park use.
Load bearing surface to be lid in over-run areas.
All street furniture to be cleared including signs, lighting columns and
fencing. Parking to be suspended.



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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM
Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

REQUIRED REMEDIAL WORKS

POI: 1 NIGG PORT / B9175 EXIT

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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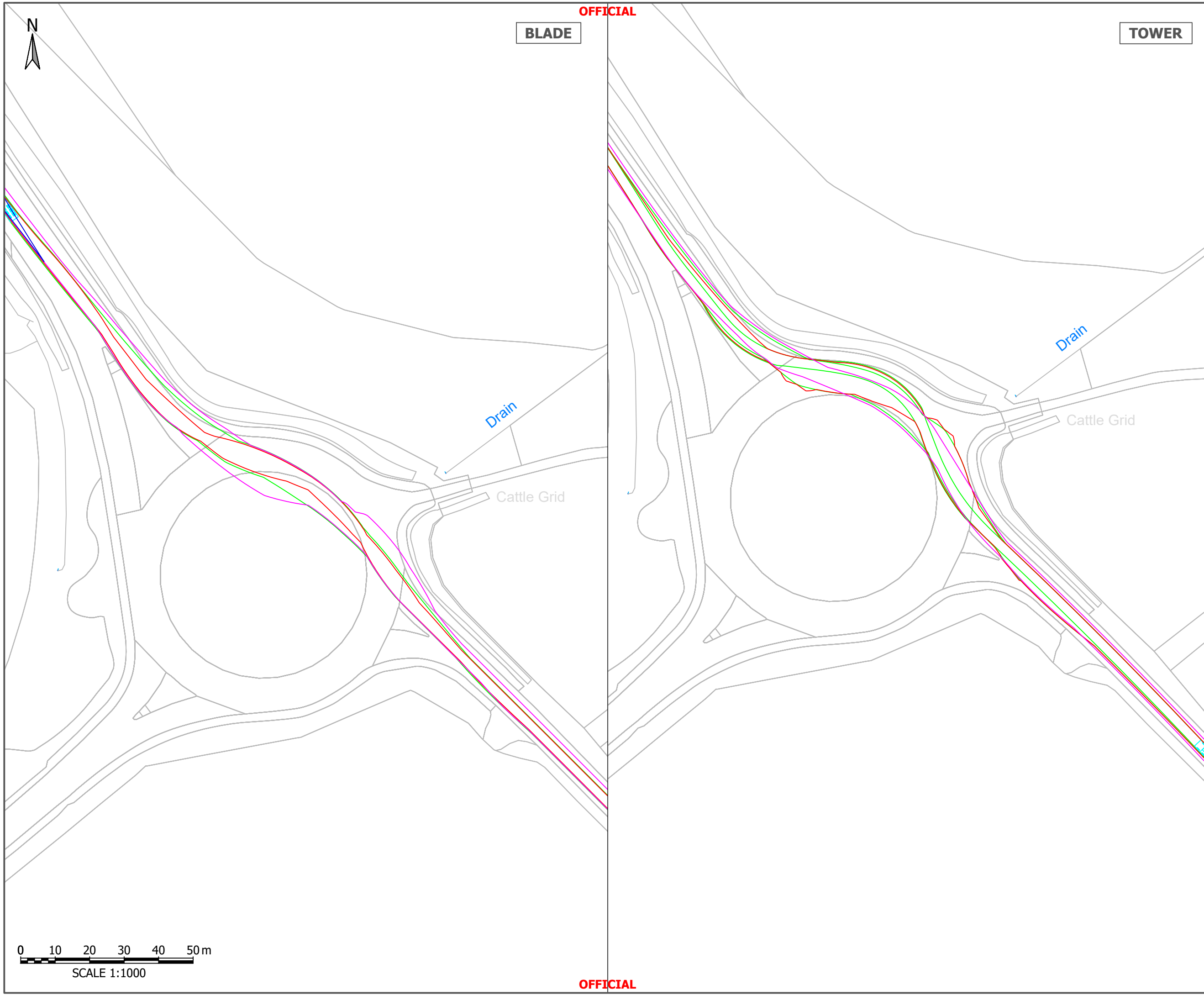


BLADE

TOWER

OFFICIAL

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

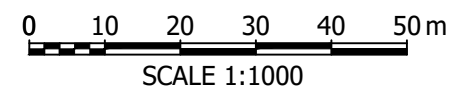
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SWEEP PATH ASSESSMENT

Plot Location:
5 NIGG ROUNDABOUT

Model Reference	DDI IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

Drain

Cattle Grid

Load bearing surface to be laid.
 One lit chevron sign to be removed.
 Vegetation to be cleared

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Client: SSE RENEWABLES

Project Name:
 ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

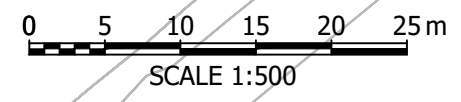
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PCN Location:
5 NIGG ROUNDABOUT

Model Reference	N/A	DDP IDP Reference	-	LOD/LGI	-
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BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING

MP 46.75

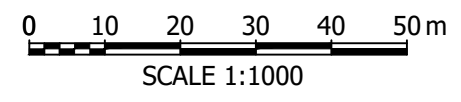
MP 46.75

Underpass

Underpass

CG

CG



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Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

PCN Location:
7 A9 / A836 ROUNDABOUT




Model Reference: N/A | DSD IDP Reference: - | LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING

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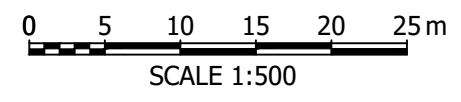
Underpass

A9

Load bearing surface to be laid.
Vegetation and tree to be removed.

Load bearing surface to be laid.
One bollard and one sign to be removed.

CG



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Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
7 A9 / A836 ROUNDABOUT

Model Reference: N/A
 DID IDP Reference: -
 LOD/LGI: -

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BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Project Name:
ACHANY EXT WIND FARM

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VESTAS V136 BLADE AND VESTAS V136 MID TOWER

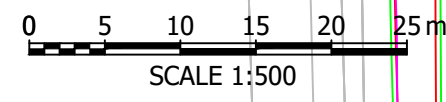
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SWEEP PATH ASSESSMENT

POI Location:
9 A9 RIGHT BEND EVELIX

Model Reference	N/A	DDP IDP Reference	-	LOD/LOI	-
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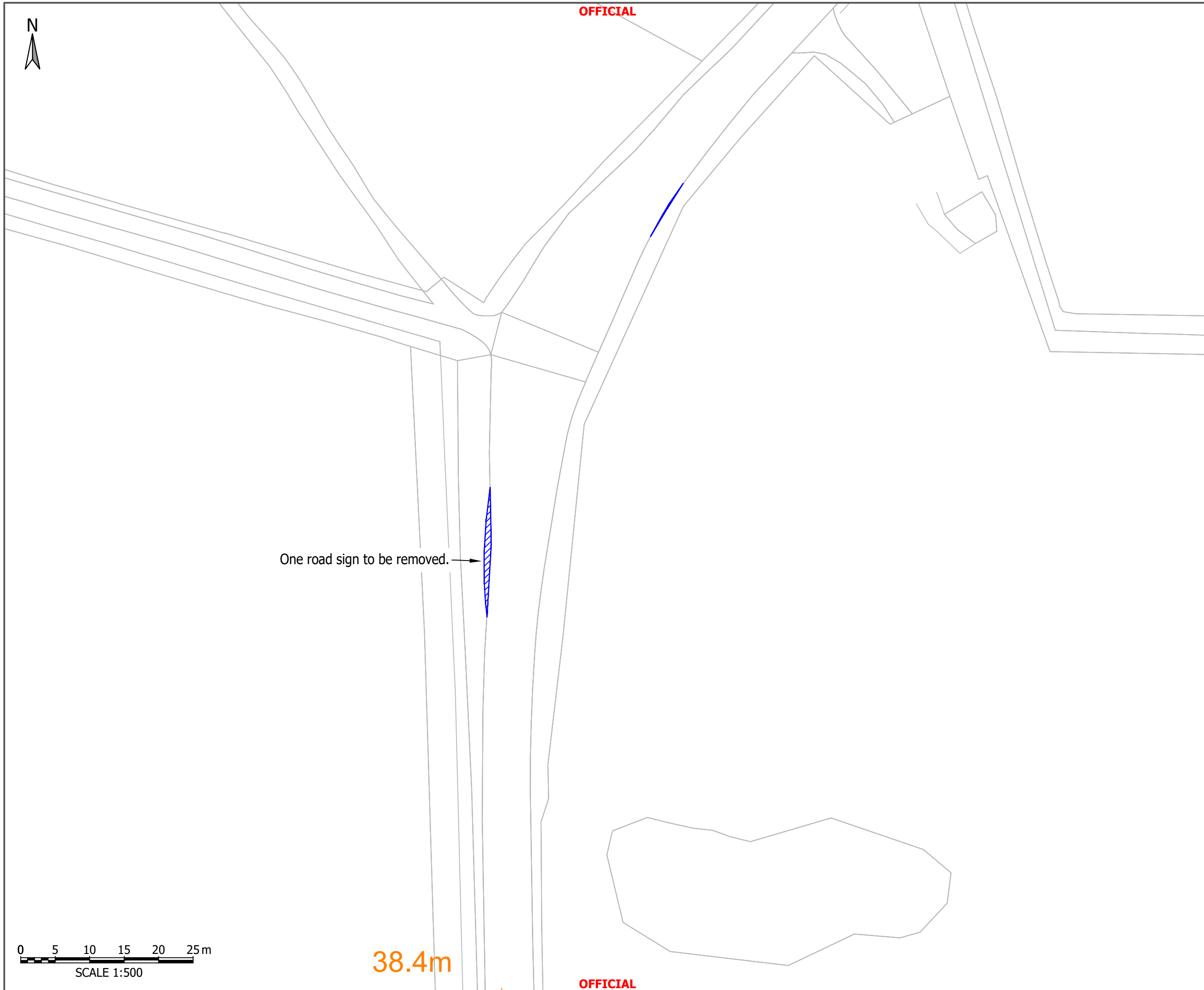




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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



One road sign to be removed. →

38.4m

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

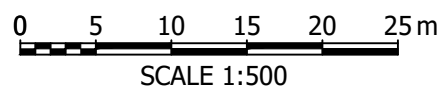
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POI Location:
9 A9 RIGHT BEND EVELIX

Model Reference	N/A	DDP IDP Reference	-	LOD/LOI	-
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING

42.4m

42.4m

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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

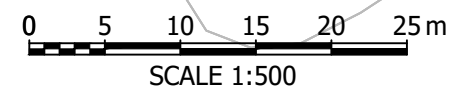
Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
10 A9 RIGHT BEND SOUTH OF CAMBUSAVIE

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

Load bearing surface to be laid.
Two road signs and all traffic bollards to be removed.
All underground utilities to be protected.

42.4m

Vegetation to be cleared.

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

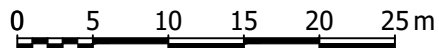
POI Location:
10 A9 RIGHT BEND SOUTH OF CAMBUSAVIE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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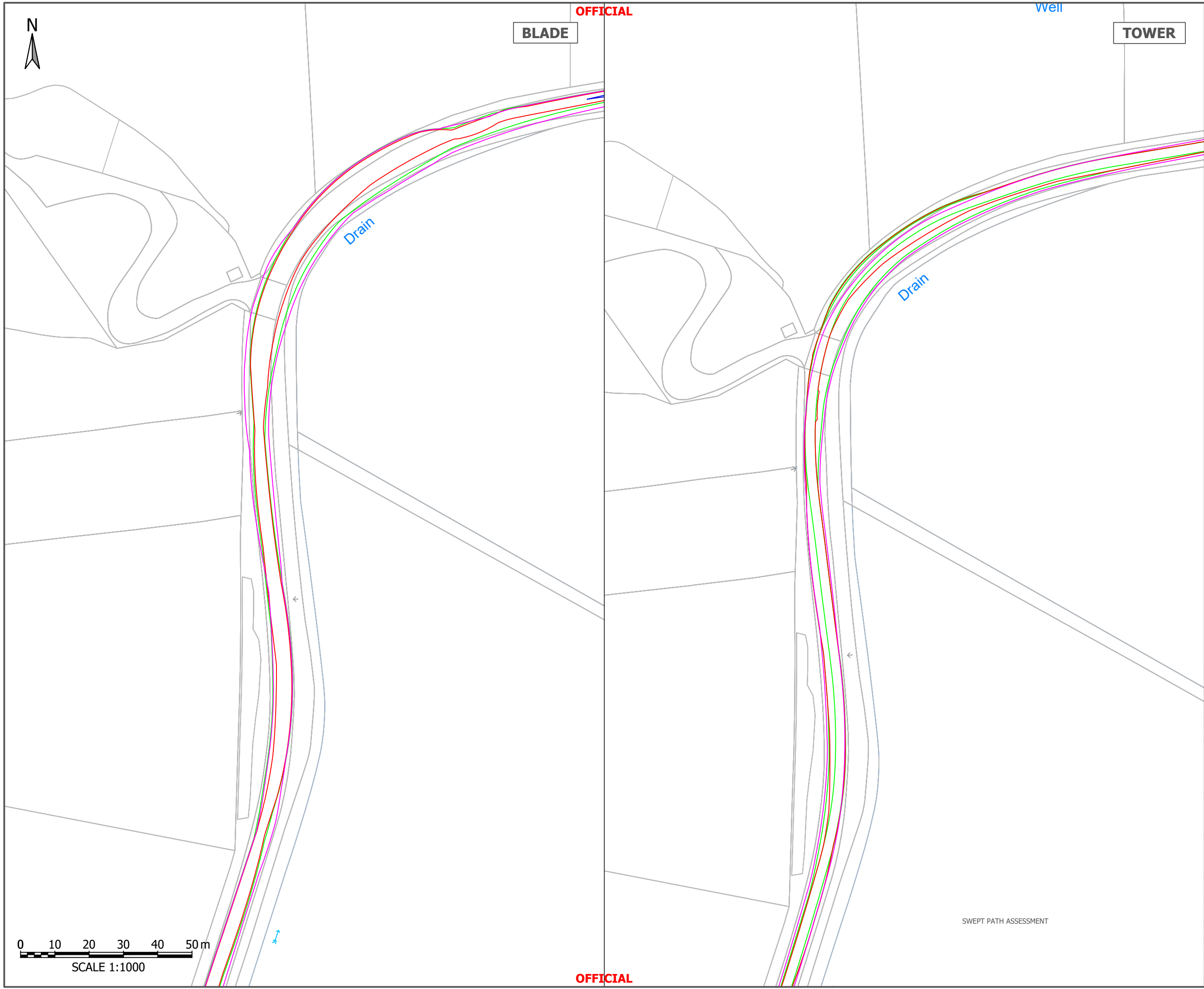
BLADE

OFFICIAL

Well

TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



PRELIMINARY ISSUE

Rev	Description	Date	Drn / Ck / App
P01	PRELIMINARY FIRST ISSUE	10.02.2021	LJ MG JD

Rev	Description	Date	Drn / Ck / App
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SSE RENEWABLES

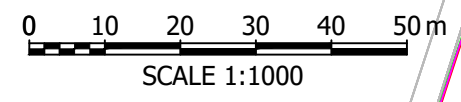
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:

POI Location:
11 A9 RIGHT BEND CAMBUSAVIE

SWEPT PATH ASSESSMENT



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Well

Load bearing surface to be laid in over-run area.
Proximity to stone wall and fence to be confirmed.
Five chevron signs and all bollards to be removed during deliveries.
Tree canopies to be trimmed back and vegetation to be cleared.

Drain

Loads to over-sail stone wall.
Proximity to trees to be confirmed, potentially three to five established trees to be removed, their location should be confirmed through comprehensive topographical survey.

Load bearing surface to be laid in over-run area.
Load bearing capacity of verge to be confirmed.
One chevron sign and all bollards to be removed during deliveries.
Trees and vegetation to be cleared.

Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

PRELIMINARY ISSUE

Rev	Description	Date	Drn / Ck / App	LJ	MG	JD
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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

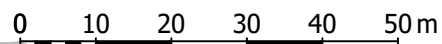
Sheet Title:
REQUIRED REMEDIAL WORKS

P01 Location:
11 A9 RIGHT BEND CAMBUSAVIE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 006-2	P01



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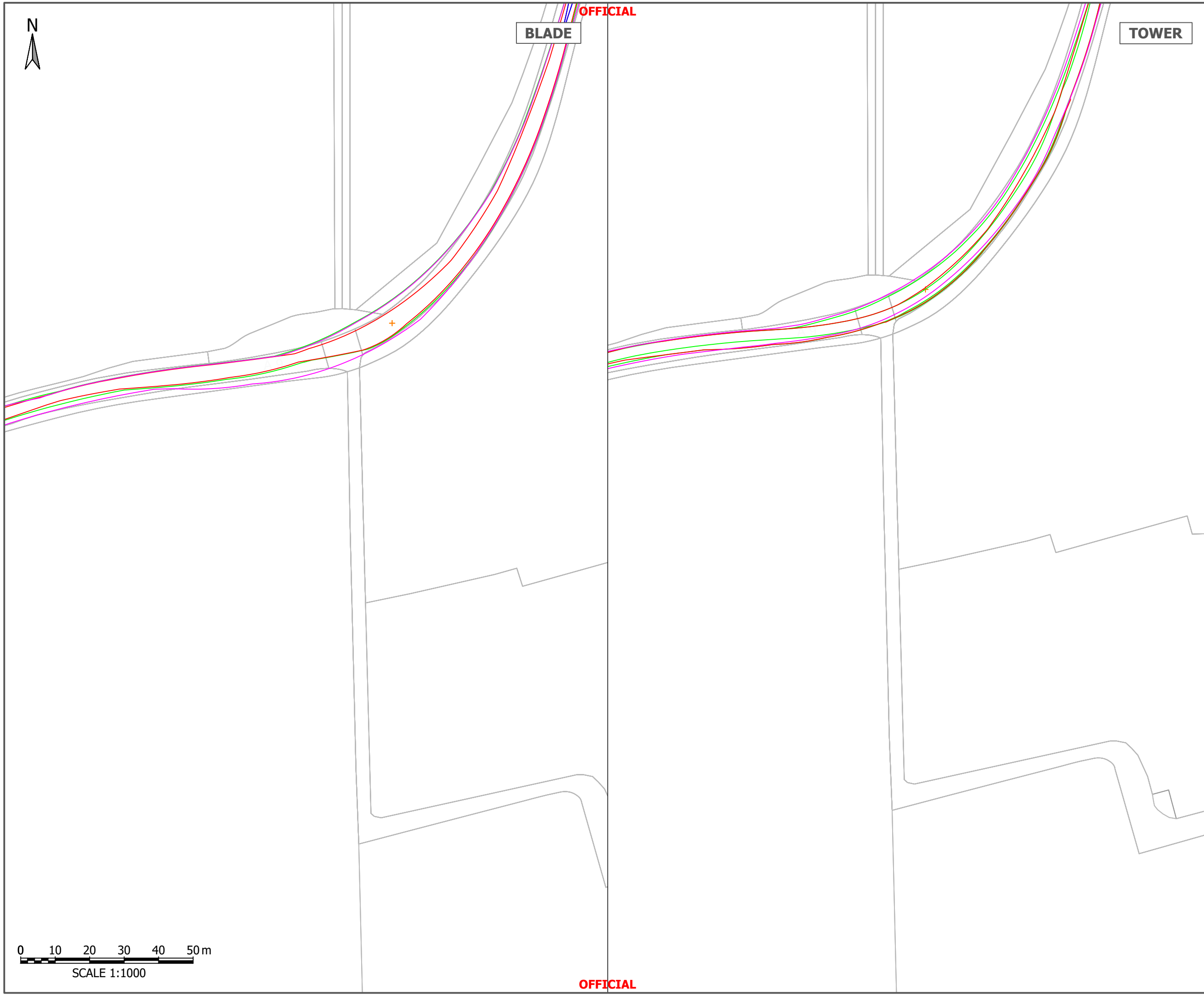


BLADE

OFFICIAL

TOWER

- Key:**
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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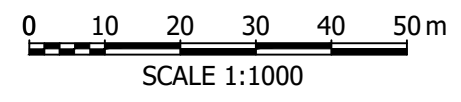
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
12 A9 LEFT BEND NORTH OF CAMBUSAVIE

Model Reference		DDP IDP Reference		LOD/LOI				
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 007	P01	



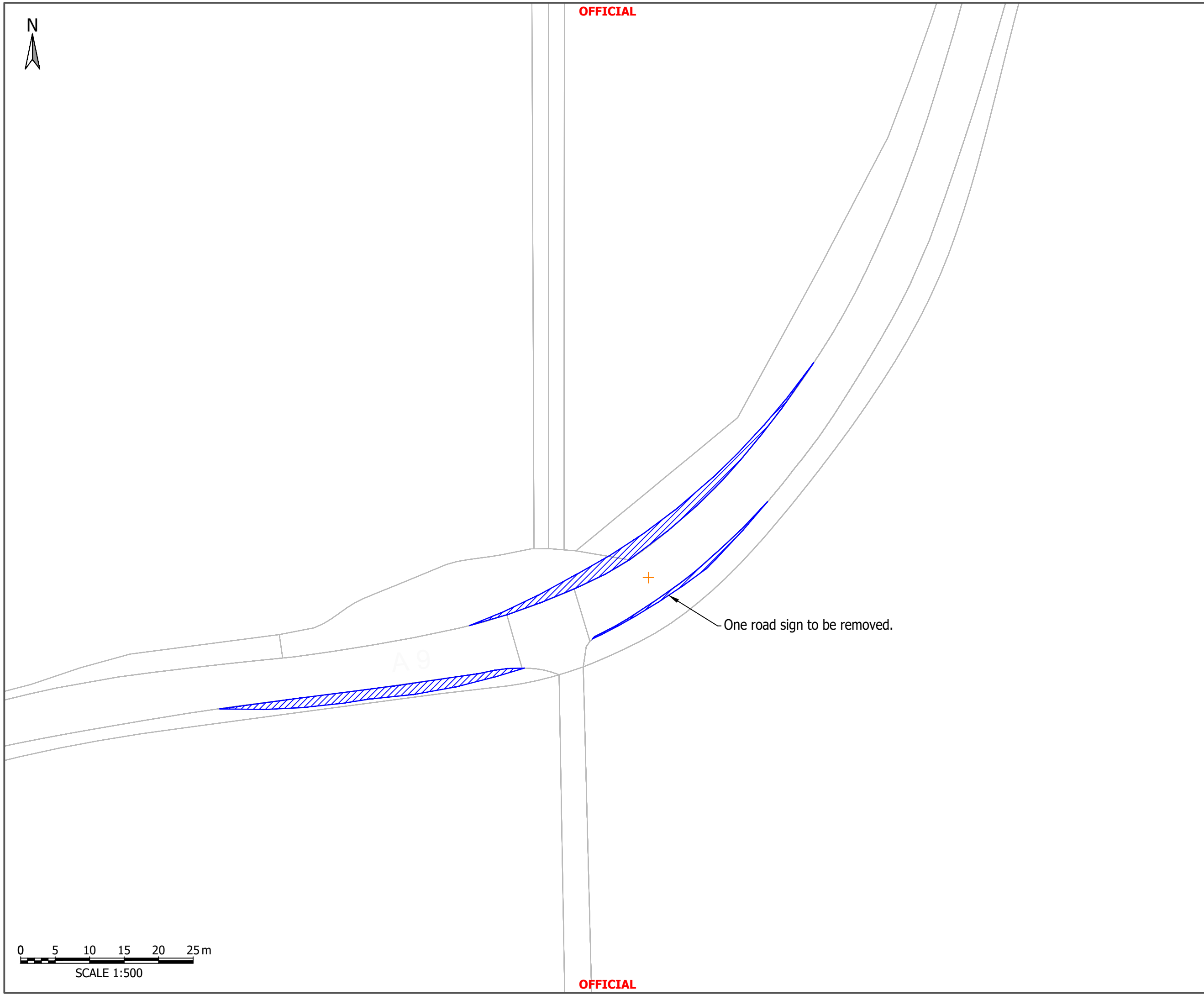
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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING



One road sign to be removed.

A9

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Rev	Description	Date	Drn / CDR / App	LJ	MG	JD
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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

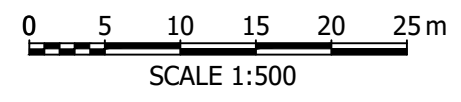
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: 12 A9 LEFT BEND NORTH OF CAMBUSAVIE

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	007-2	P01



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BLADE

TOWER

OFFICIAL

OFFICIAL

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING

5.8m

5.8m

Gatehouse

Gatehouse

NO MITIGATION REQUIRED

PRELIMINARY ISSUE

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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

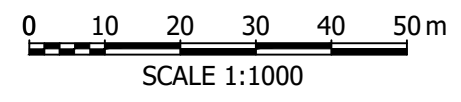
Sheet Title:
SWEEP PATH ASSESSMENT

PCN Location:
13 A9 RIGHT BEND GATEHOUSE

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 008	P01



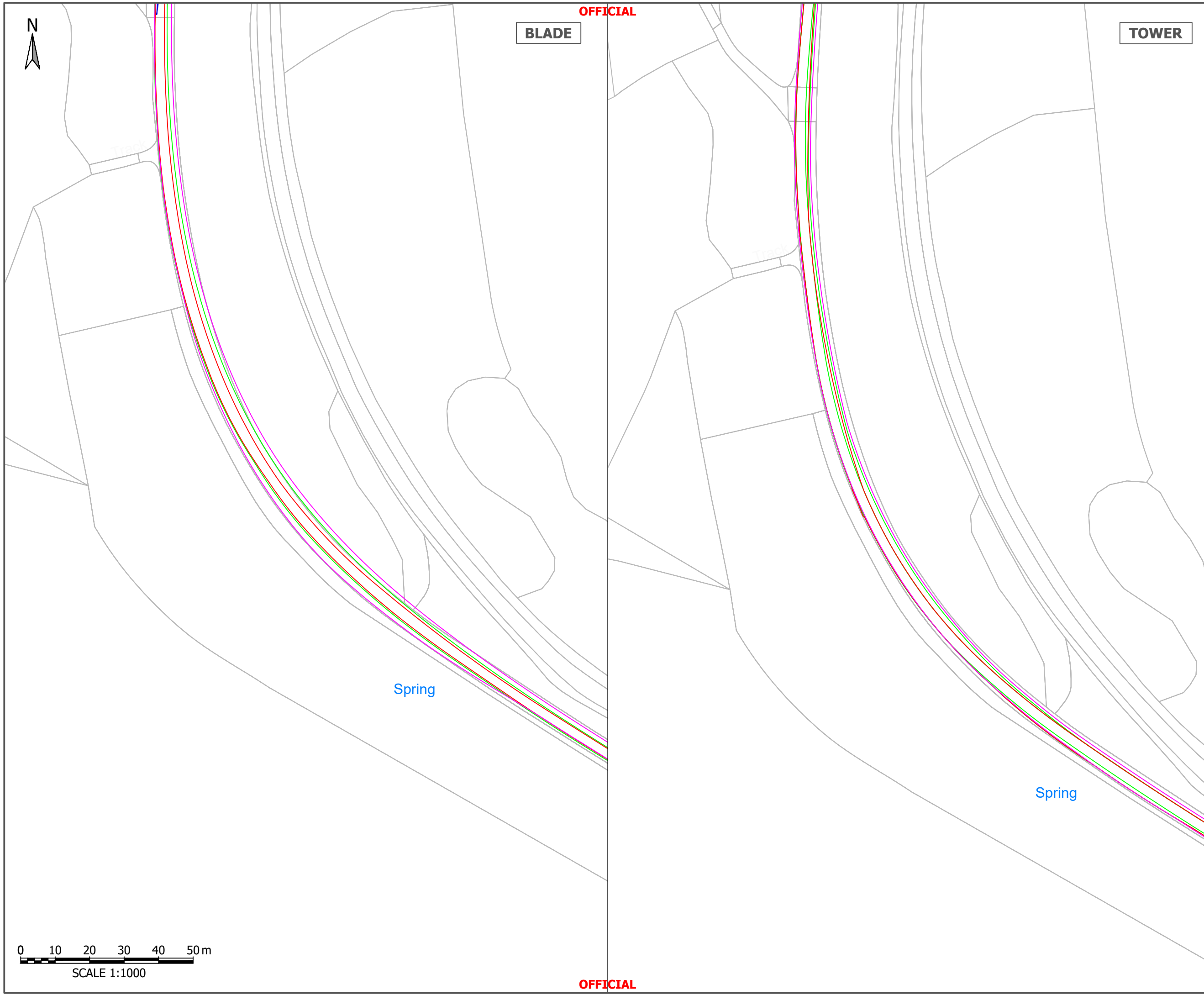


BLADE

TOWER

OFFICIAL

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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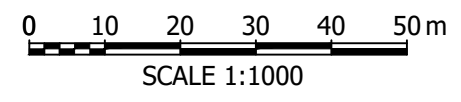
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
14 A9 RIGHT BEND SOUTH OF CAMBUSMORE LODGE

Model Reference		DDP IDP Reference		LOD/LGI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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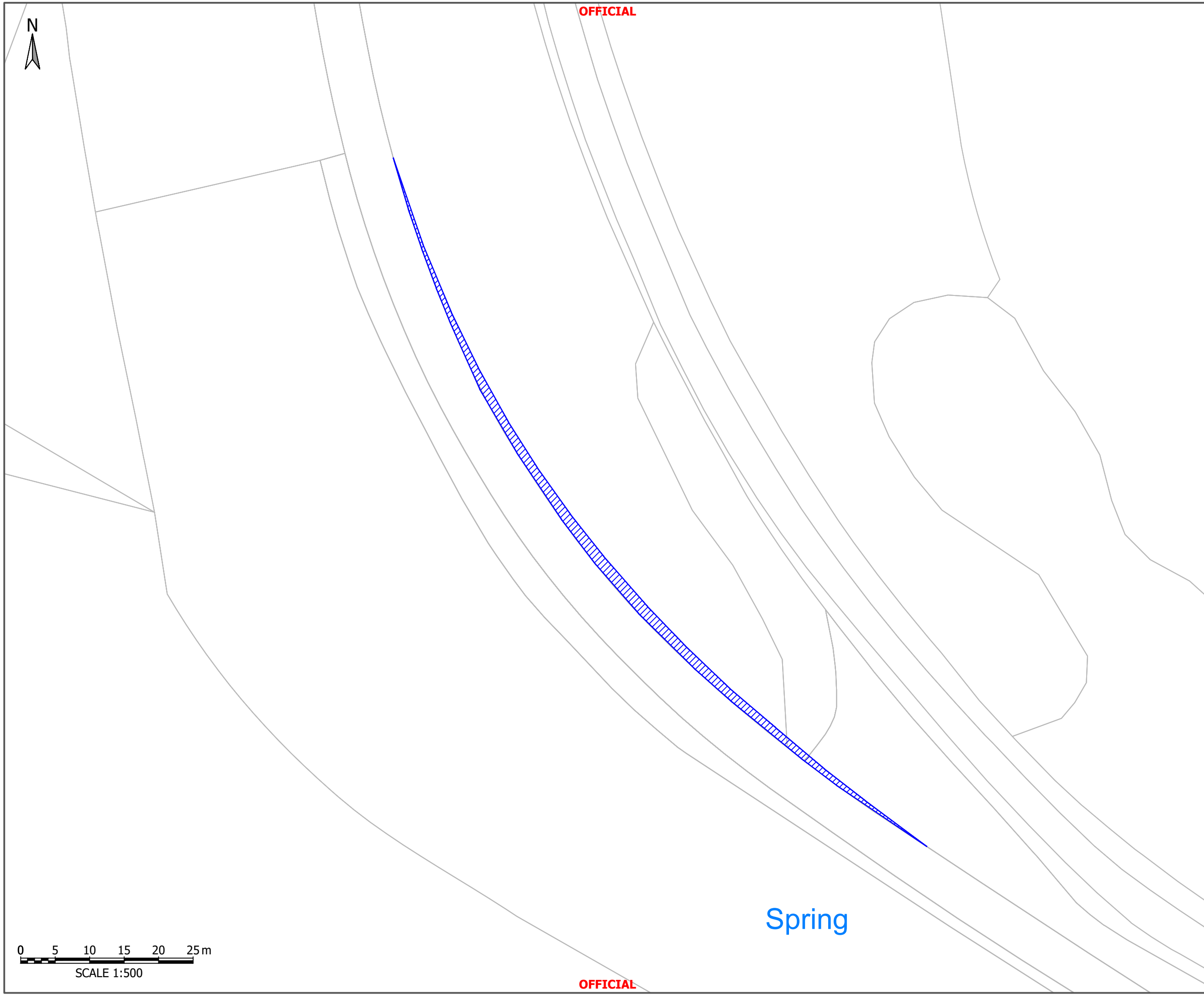
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

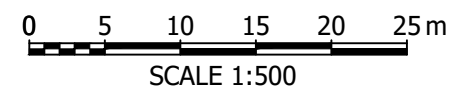
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
14 A9 RIGHT BEND SOUTH OF CAMBUSMORE LODGE

Model Reference	N/A	DDP IDP Reference	-	LOD/LOI	-
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	009-2	P01



Spring

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BLADE

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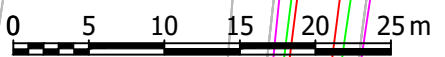
TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING

7.9m



7.9m



SCALE 1:500

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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
15 A9 RIGHT BEND CAMBUSMORE LODGE

Model Reference	DDP IDP Reference	LOD/LOI
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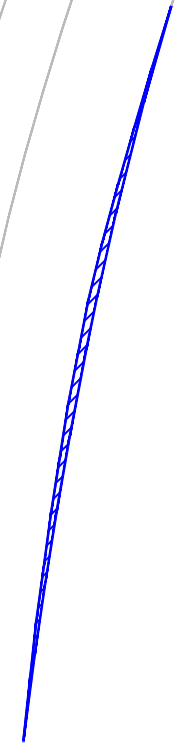
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A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	010	P01



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7.9m



Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

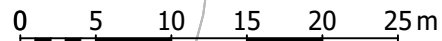
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
15 A9 RIGHT BEND CAMBUSMORE LODGE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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PRJ01	TTE	00	ZZ	DR	SPA	010-2	P01



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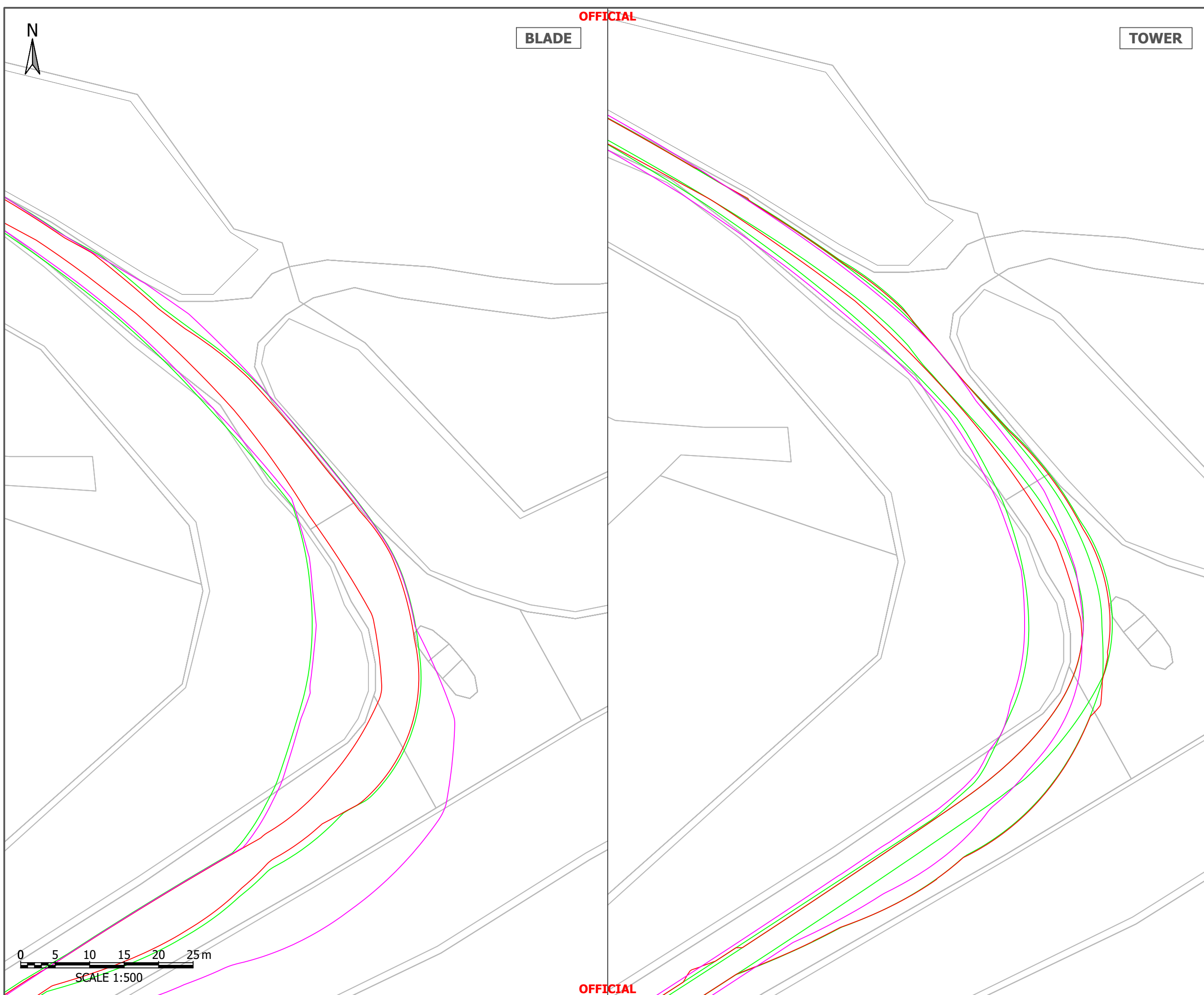


BLADE

TOWER

OFFICIAL

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

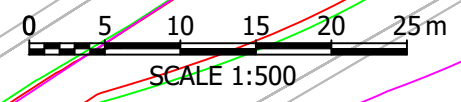
Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
16 A9 / A893 LEFT TURN, THE MOUND

Model Reference	N/A	DDP IDP Reference	-	LOD/LOI	-
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING

Tree canopy and vegetation to be trimmed back.

Vegetation to be trimmed back.

One bollard to be removed.
Trees and vegetation to be cleared.
limits of adoption to be confirmed.

One road sign to be relocated.
Limits of adoption to be confirmed.
Vegetation and tree canopy to be cut back.

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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

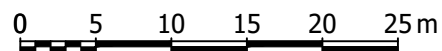
Sheet Title: REQUIRED REMEDIAL WORKS

PCN Location: 16 A9 / A893 LEFT TURN, THE MOUND

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	011-2	P01



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BLADE

TOWER

Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



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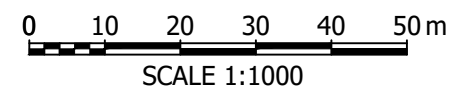
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
17 A839 PITTENTRAIL

Model Reference		DSD IDP Reference		LOD/LOI			
N/A		-		-			
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	012	P01



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Load bearing surface to be laid in over-run area.
Proximity to one lighting column and one sign to be confirmed.

Load bearing surface to be laid in over-run area.




Section of guard-rail to be removed.
Parking to be prohibited.

Vegetation to be trimmed.

TCB

Caberfeidh

Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

PRELIMINARY ISSUE

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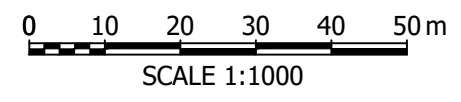
Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM
 Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

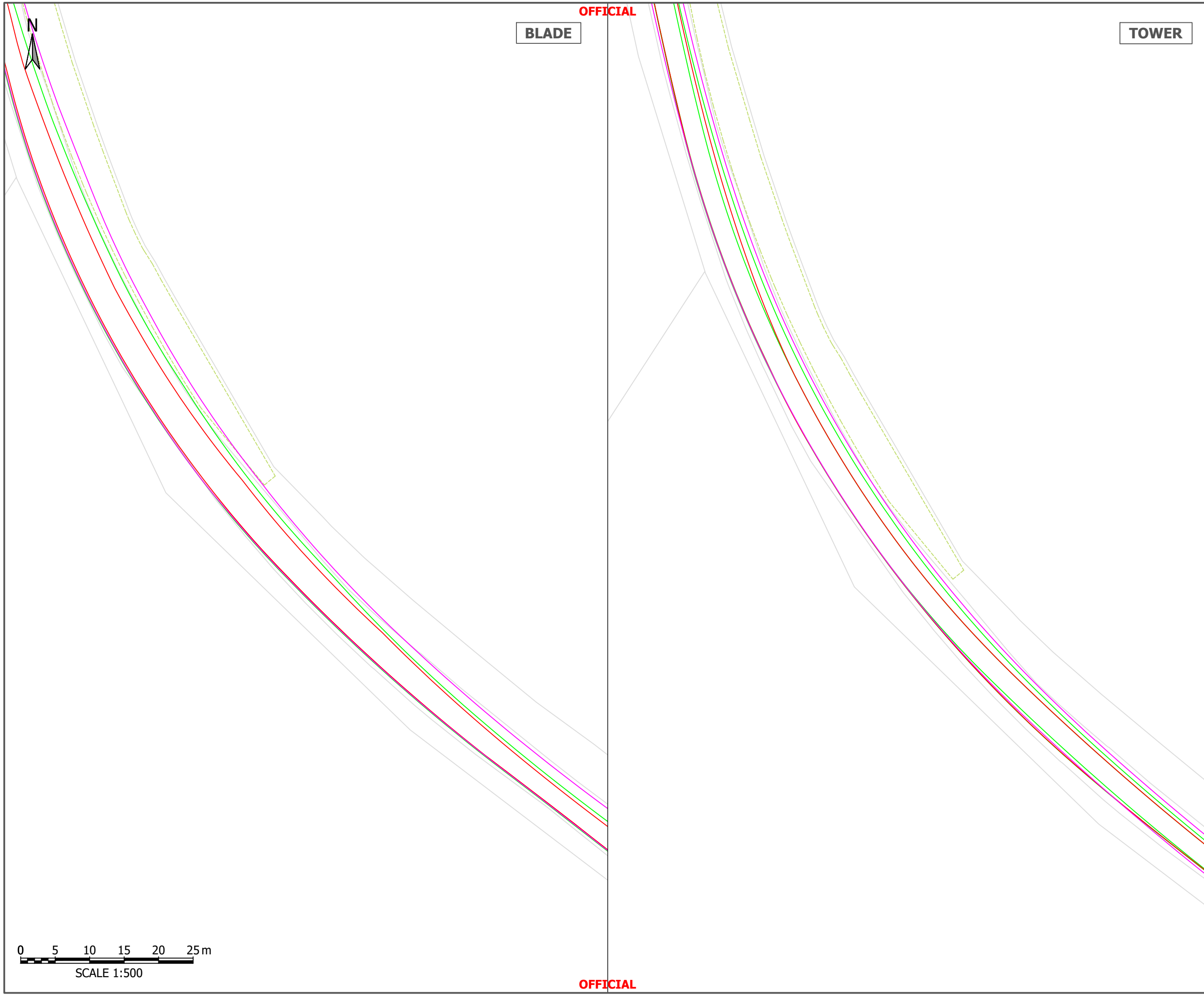
Sheet Title: REQUIRED REMEDIAL WORKS

POI 17 A839 PITTENTRAIL

Model Reference	DSD IDP Reference		LOD/LOI
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TTE Project Number	Drawn By	Date	Checked By
A117008	LJ	Feb '21	MG
Client Project Number	Originator	Volume/System	Level/Location
PRJ01	TTE	00	ZZ
Approved By	Date	Scale	Stability
JD	Feb '21	As Shown	S0
Role	Number	Revision	
DR	SPA	012-2	P01



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BLADE

TOWER

OFFICIAL

OFFICIAL

- Key:**
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI	Location
18	A839 WEST OF PITTENTRAIL

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-




TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

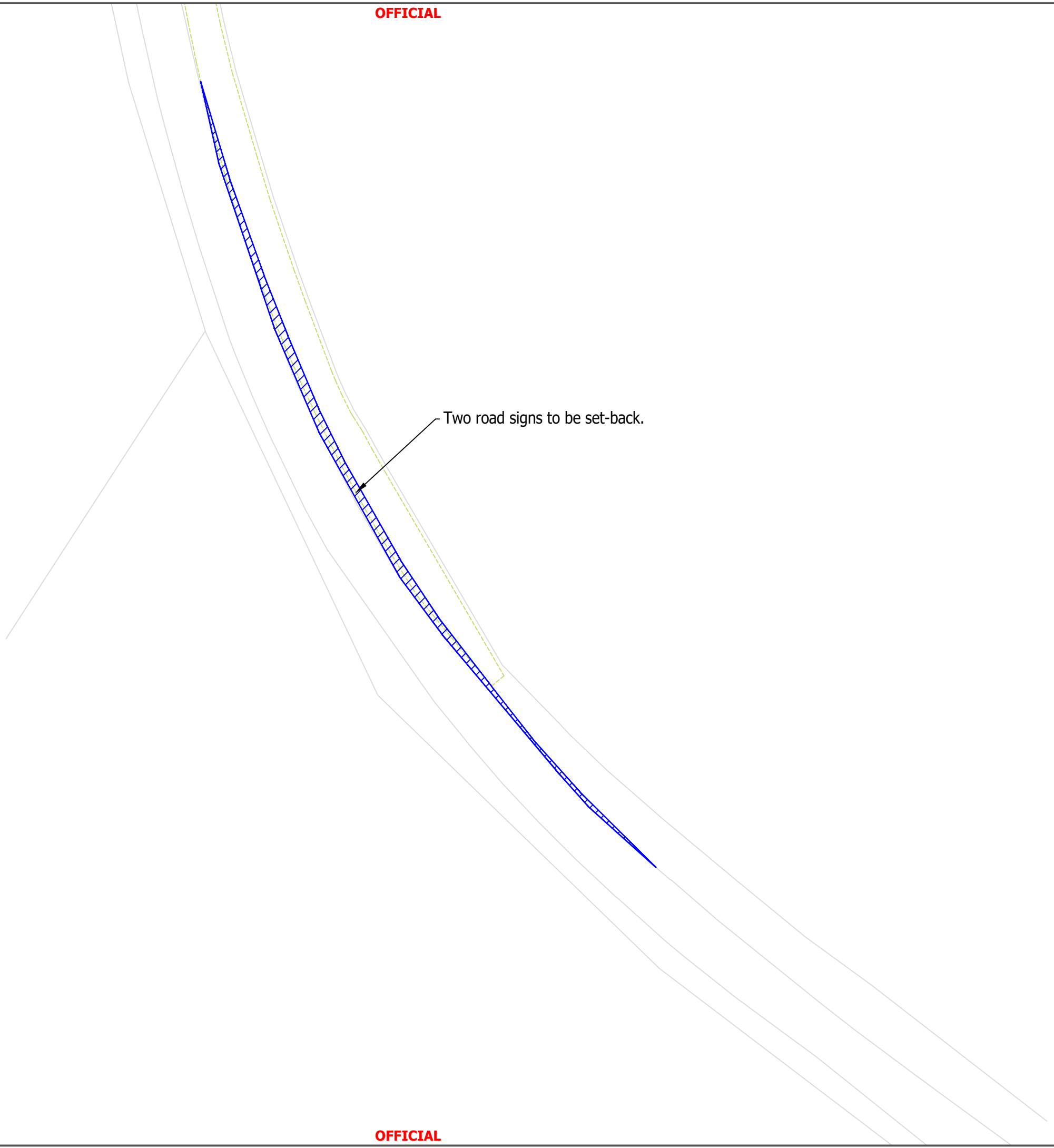
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PRJ01	TTE	00	ZZ	DR	SPA	013	P01



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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



Two road signs to be set-back.

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

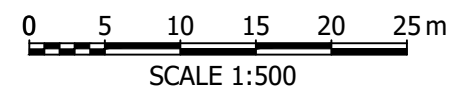
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
18 A839 WEST OF PITTENTRAIL

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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BLADE

TOWER

Key:

- LOAD SWEPT PATH
- VEHICLE SWEPT PATH
- WHEEL SWEPT PATH
- ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

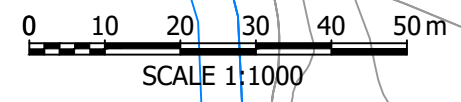
Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
19 A839 LEFT BEND AT ROVIE LODGE

Model Reference	N/A	DDP IDP Reference	-	LOD/LOI	-
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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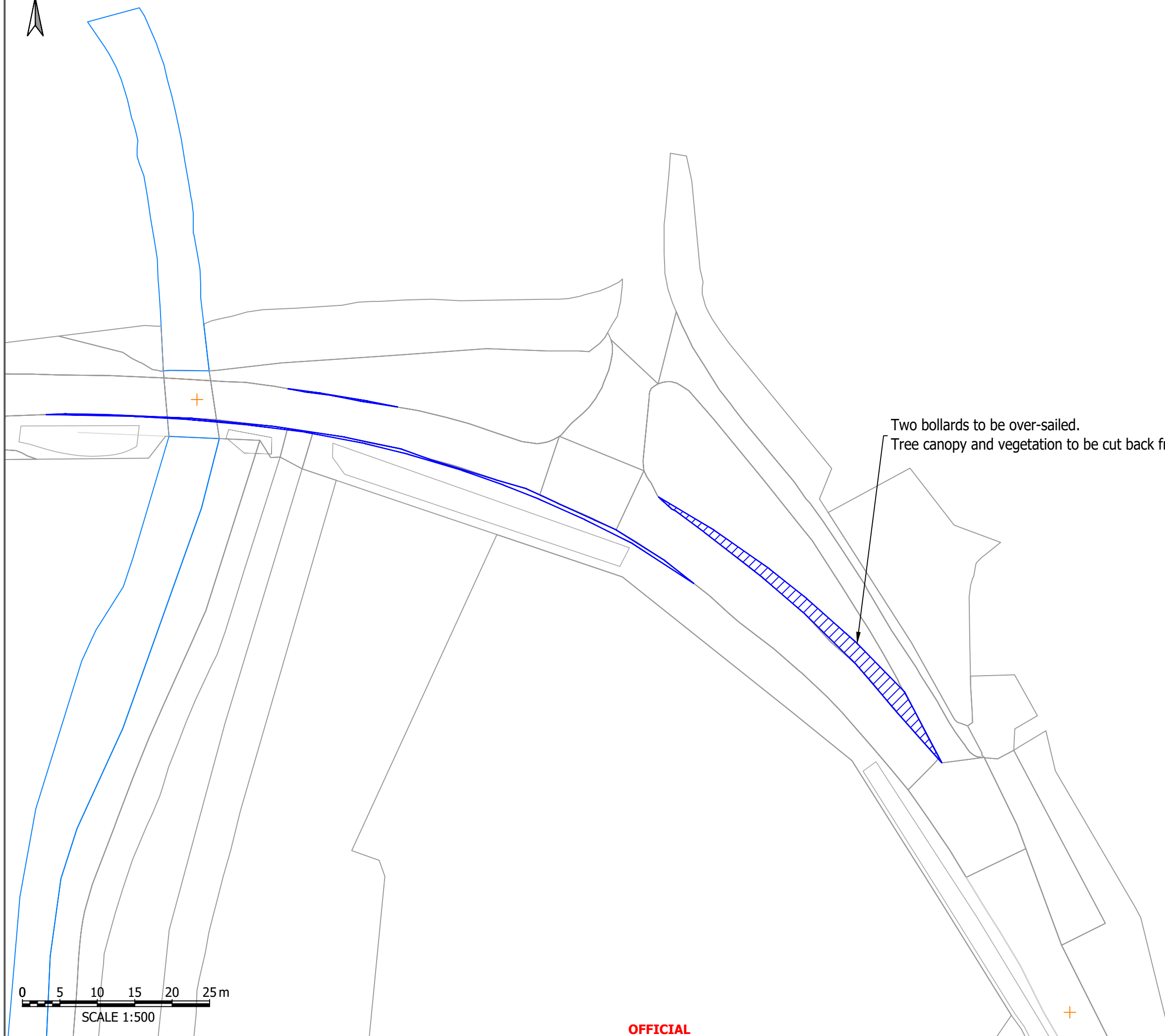
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING



Two bollards to be over-sailed.
Tree canopy and vegetation to be cut back from over-sail area.

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
19 A839 LEFT BEND AT ROVIE LODGE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 014-2	P01



BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

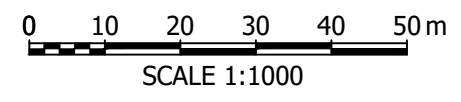
Sheet Title:
SWEPT PATH ASSESSMENT

POI: **20 A839 RIGHT BEND AT TORBRECK**

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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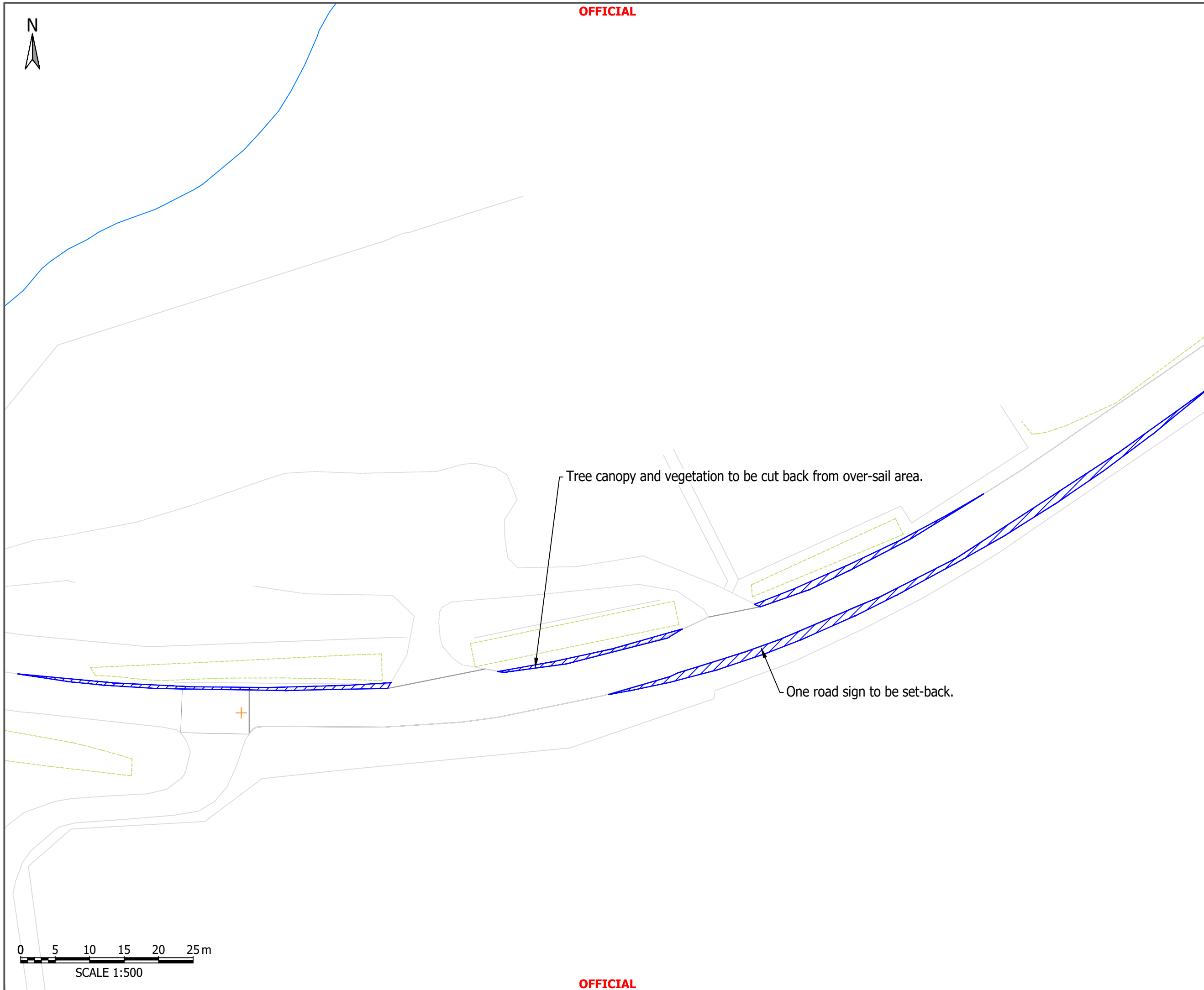
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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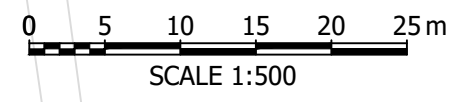
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
20 A839 RIGHT BEND AT TORBRECK

Model Reference		DDP IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

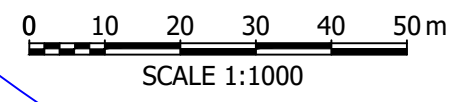
Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
21 A839 LEFT BEND TRESSADY

Model Reference	DDO IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Key:

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-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

Blarich Bridge

Tree canopy and vegetation to be cut back from over-sail area.

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

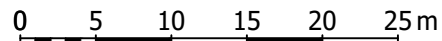
Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
21 A839 LEFT BEND TRESSADY

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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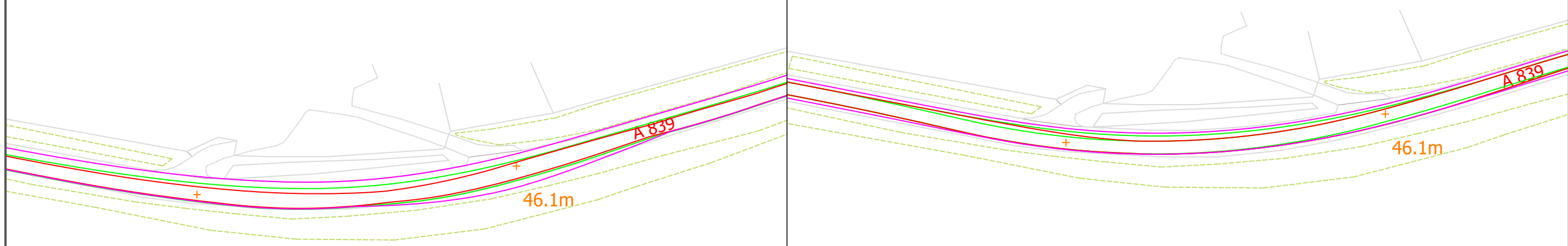


BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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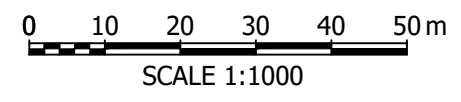
Project Name: **ACHANY EXT WIND FARM**

Components: **VESTAS V136 BLADE AND VESTAS V136 MID TOWER**

Sheet Title: **SWEEP PATH ASSESSMENT**

POI: **22 A839 RIGHT BEND BLARICH SCHOOLHOUSE**

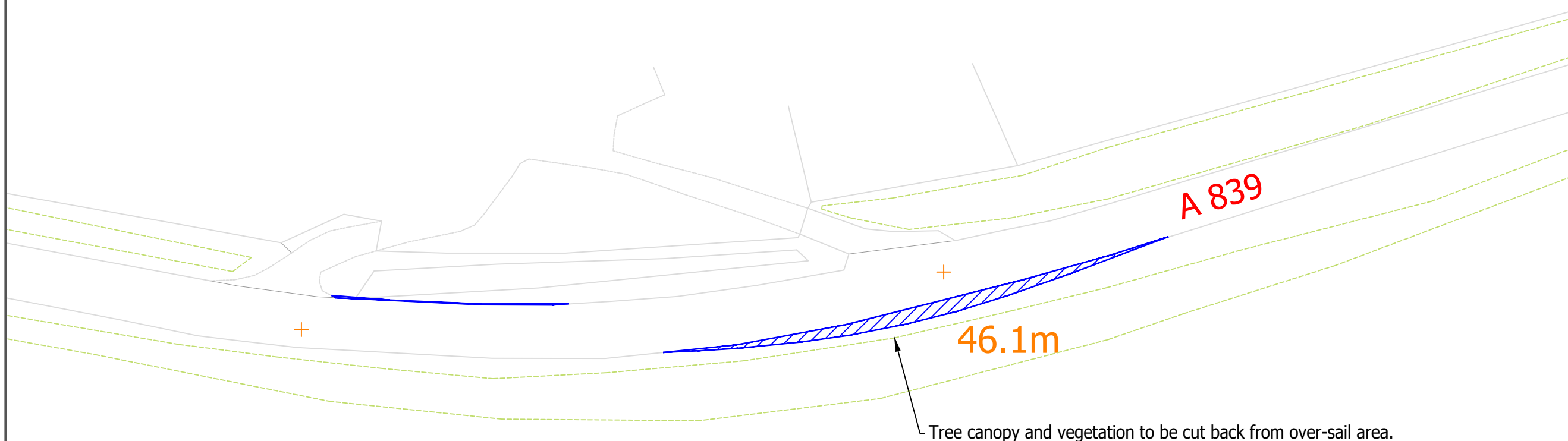
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

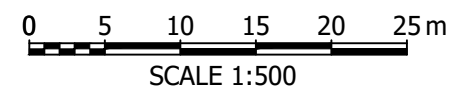
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
22 A839 RIGHT BEND BLARICH SCHOOLHOUSE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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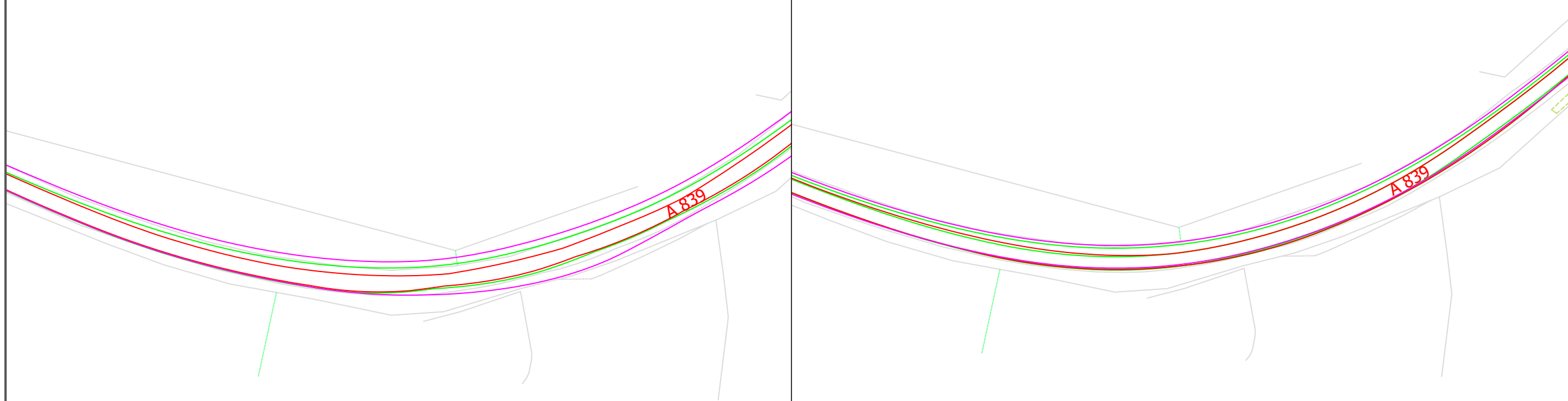


BLADE

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TOWER

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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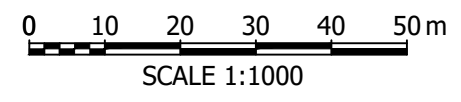
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
24 A839 RIGHT BEND AT MILTON




Model Reference		DSD IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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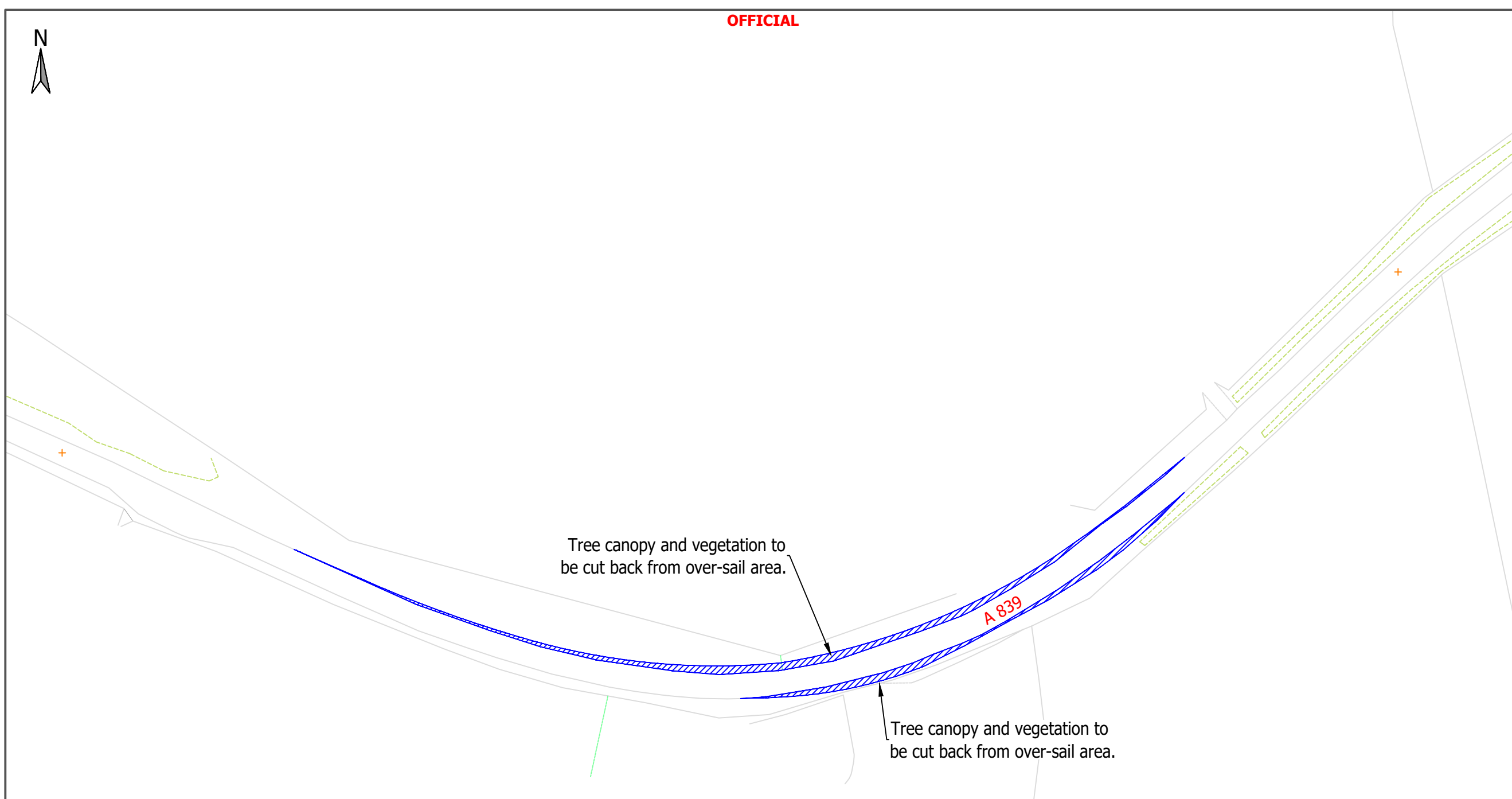


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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

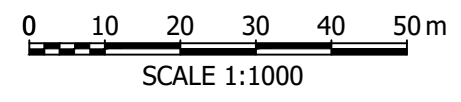
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
24 A839 RIGHT BEND AT MILTON

Model Reference	DDP IDP Reference	LOD/LOI
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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BLADE

TOWER

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Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING
- INDICATIVE ROAD EDGE

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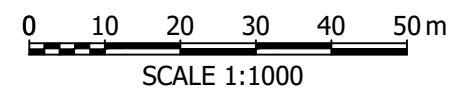
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
26 A839 DOUBLE BEND APPROACHING RHAOINE

Model Reference		DDP IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 019	P01	





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Vegetation to be cut back from over-sail area.

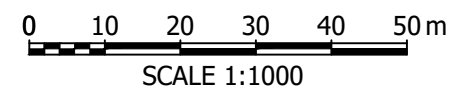
Tree canopy and vegetation to be cut back from over-sail area.

Tree canopy and vegetation to be cut back from over-sail area.

Vegetation to be cut back from over-sail area.

Tree canopy and vegetation to be cut back from over-sail area.

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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING
- INDICATIVE ROAD EDGE

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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: **26 A839 DOUBLE BEND APPROACHING RHAOINE**

Model Reference: N/A | DID IDP Reference: - | LOD/LGI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale	@ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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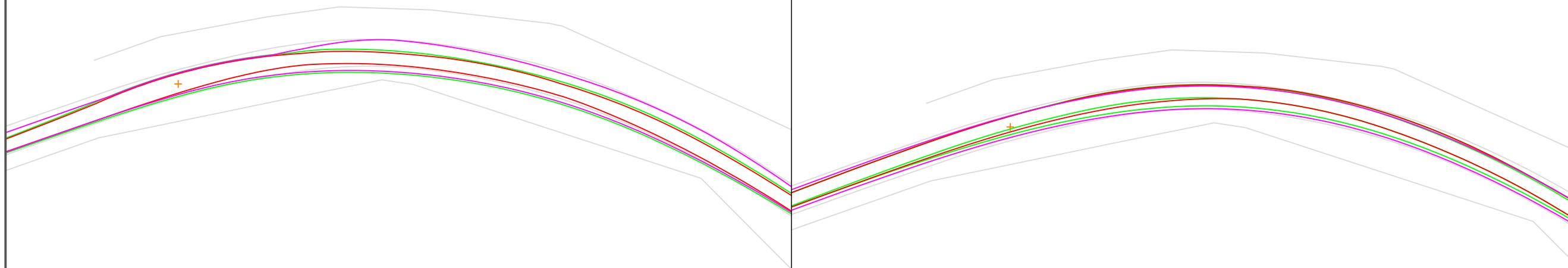
BLADE

TOWER

OFFICIAL

Key:

- LOAD SWEPT PATH
- VEHICLE SWEPT PATH
- WHEEL SWEPT PATH
- ORDNANCE SURVEY MAPPING



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Client: **SSE RENEWABLES**

Project Name: **ACHANY EXT WIND FARM**

Components: **VESTAS V136 BLADE AND VESTAS V136 MID TOWER**

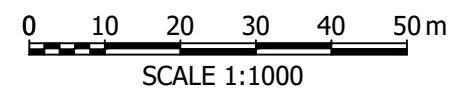
Sheet Title: **SWEPT PATH ASSESSMENT**

POI: **27 A839 LEFT BEND NEAR RHAOINE**

Model Reference: N/A | DSD IDP Reference: - | LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0




Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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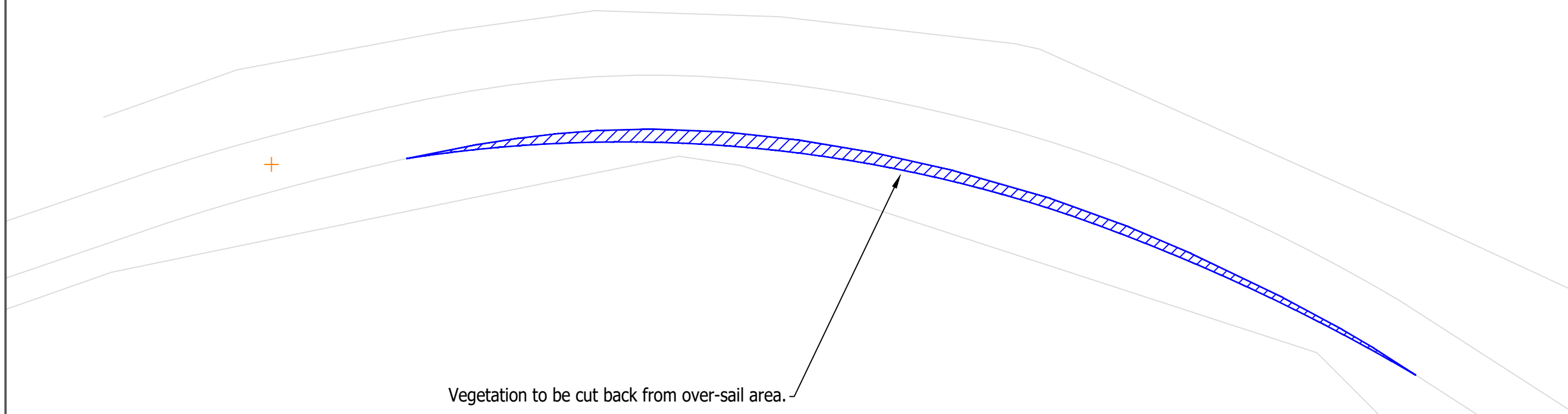


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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



Vegetation to be cut back from over-sail area.

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

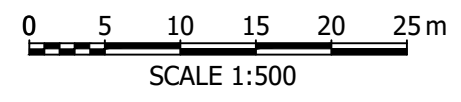
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
27 A839 LEFT BEND NEAR RHAOINE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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BLADE

TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

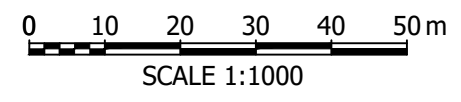
Sheet Title:
SWEEP PATH ASSESSMENT

P01 Location:
29 A839 RIGHT BEND EAST OF LAIRG

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-




TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	021	P01



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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING

Vegetation and tree canopy to be cut back from over-sail area.
Test-run or topographical survey recommended to ensure suitable clearances can be maintained from embankment rock face.

Vegetation and tree canopy to be cut back from over-sail area.
Test-run or topographical survey recommended to ensure suitable clearances can be maintained from tree line.

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Rev	Description	Date	Drn / Cdr / App	LJ	MG	JD
P01	PRELIMINARY FIRST ISSUE	10.02.2021				

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

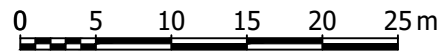
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
29 A839 RIGHT BEND EAST OF LAIRG

Model Reference	DDI IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	021-2	P01



SCALE 1:500



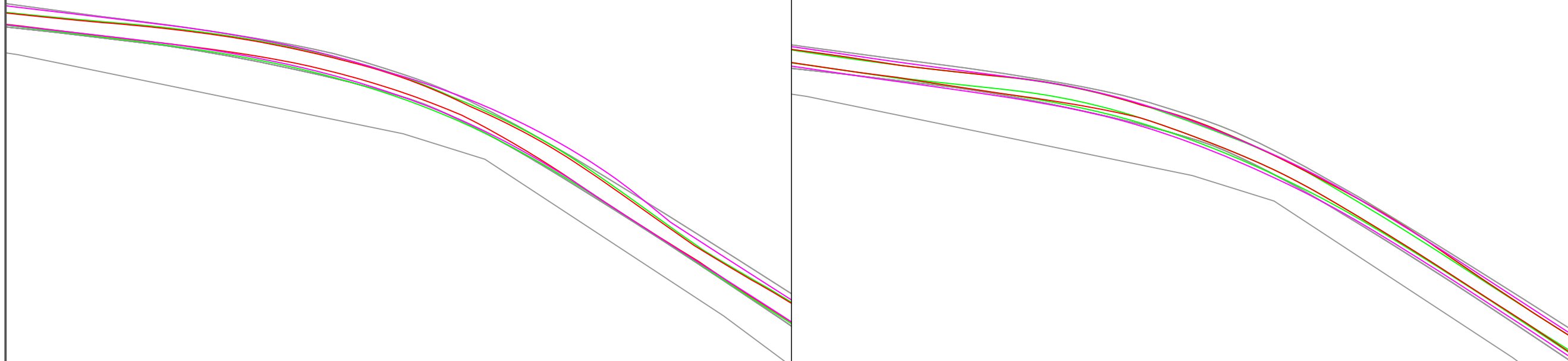
BLADE

TOWER

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Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

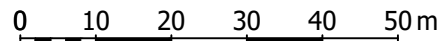
Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
30 A839 LEFT BEND BEFORE LAIRG

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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SCALE 1:1000

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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

Tree canopy and vegetation to be cut back from over-sail area.
 Tree boughs over-hanging the adopted boundary may need to be removed.
 Test-run recommended to ensure suitable clearances to tree line.

Tree canopy and vegetation to be cut back from over-sail area.

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

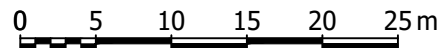
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
30 A839 LEFT BEND BEFORE LAIRG

Model Reference: N/A
 DID IDP Reference: -
 LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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PRJ01	TTE	00	ZZ	DR	SPA	022-2	P01



SCALE 1:500

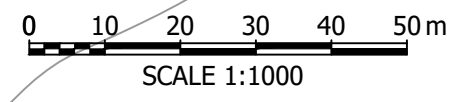
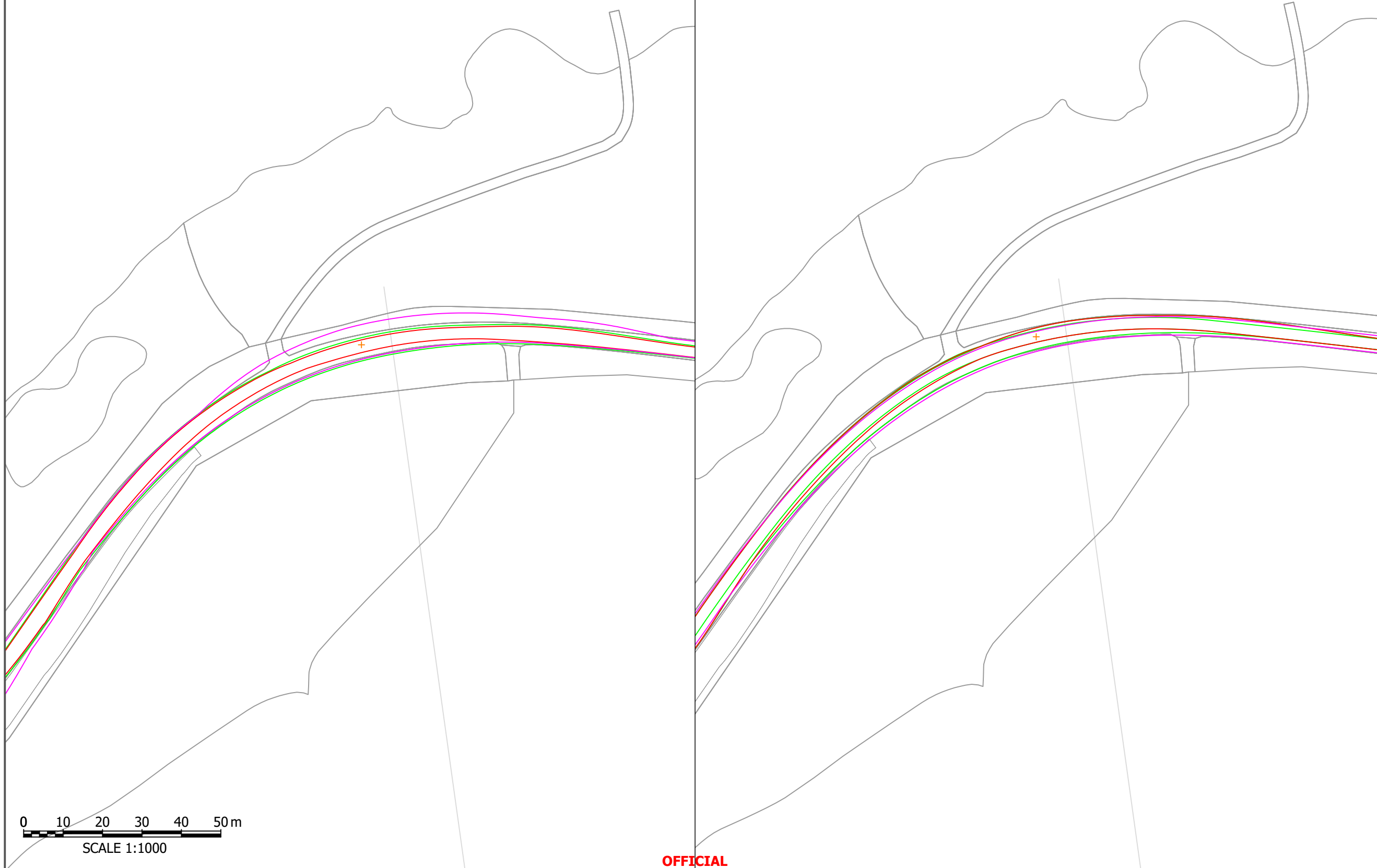


BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
31 A839 LEFT BEND BEFORE LAIRG 2

Model Reference: N/A DSD IDP Reference: - LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

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PRJ01	TTE	00	ZZ	DR	SPA	023	P01

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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

Tree canopy and vegetation to be cut back from over-sail area.

Tree canopy and vegetation to be cut back from over-sail area.

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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

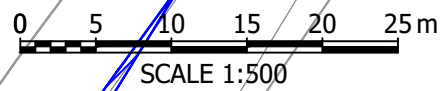
Sheet Title:
REQUIRED REMEDIAL WORKS

P01 Location:
31 A839 LEFT BEND BEFORE LAIRG 2

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	023-2	P01



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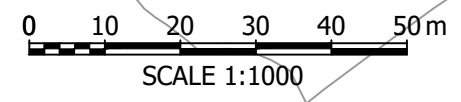
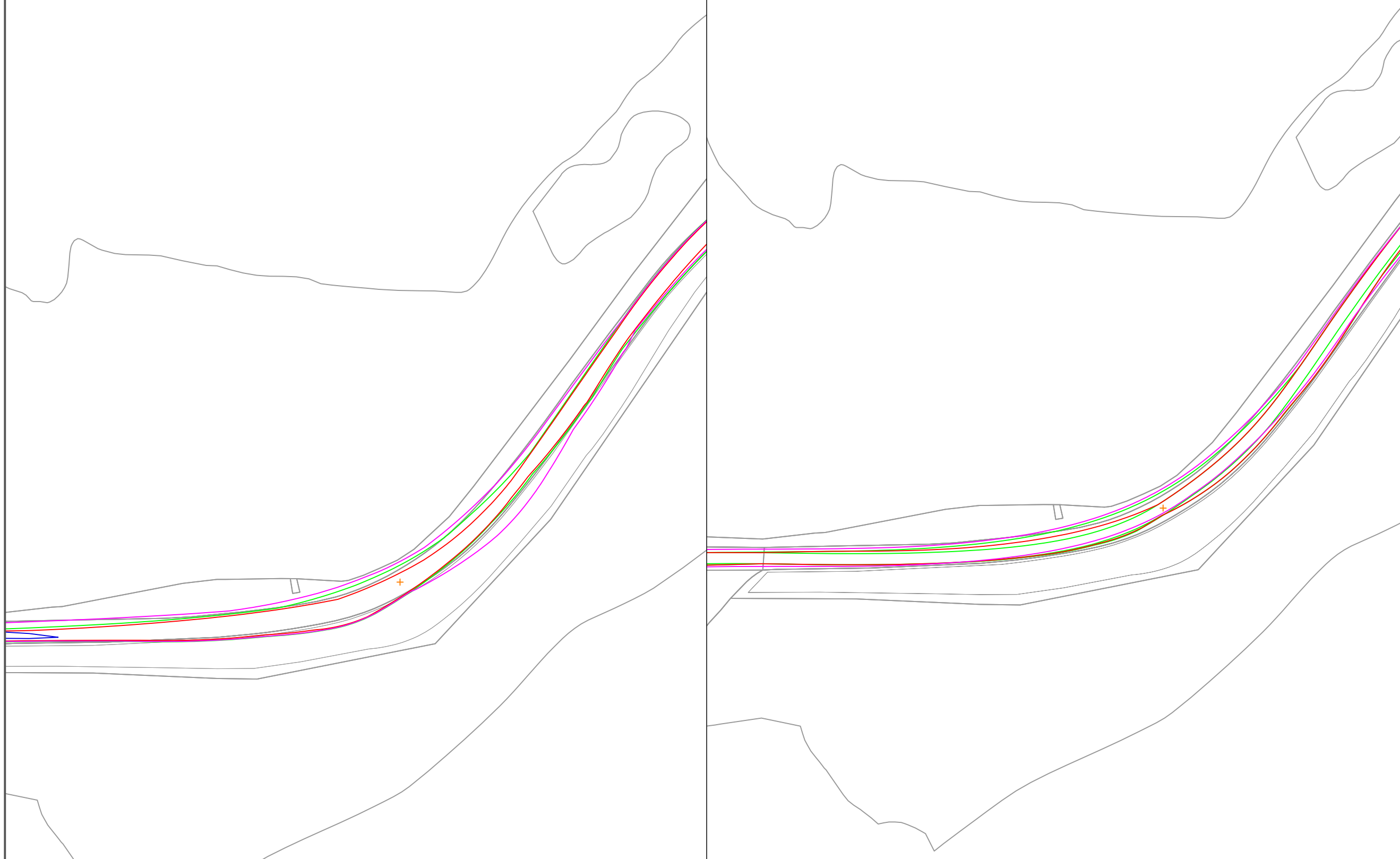


BLADE

TOWER

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- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
32 A839 RIGHT BEND ONTO LAIRG MAIN STREET

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	024	P01

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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING

Vegetation to be cleared.
Proximity to fenceline to be confirmed through test-run or topographical survey.

Load bearing surface to be laid in over-run area.
Ditch to be culverted.
Vegetation to be cleared.
Limits of adoption to be confirmed.

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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

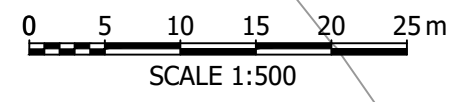
Sheet Title: REQUIRED REMEDIAL WORKS

PCN Location: 32 A839 RIGHT BEND ONTO LAIRG MAIN STREET

Model Reference: N/A; DSD IDP Reference: -; LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number Originator Volume/System Level/Location Type/Code Role Number Revision
PRJ01 - TTE - 00 - ZZ - DR - SPA - 024-2 P01



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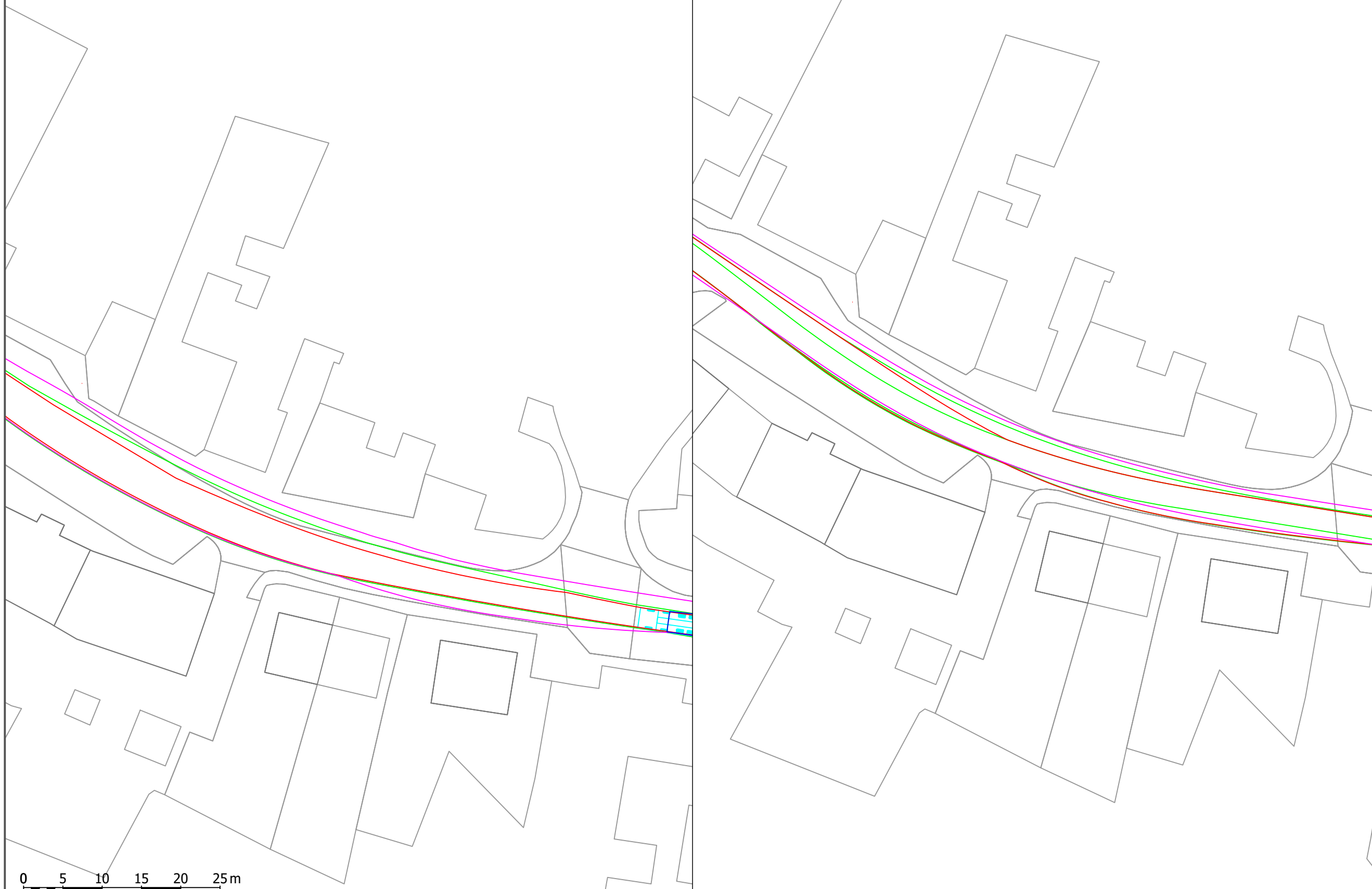
TOWER

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Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



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Client: **SSE RENEWABLES**

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

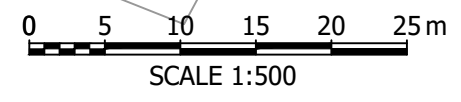
Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
33 A839 LAIRG MAIN STREET

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0




Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	025	P01

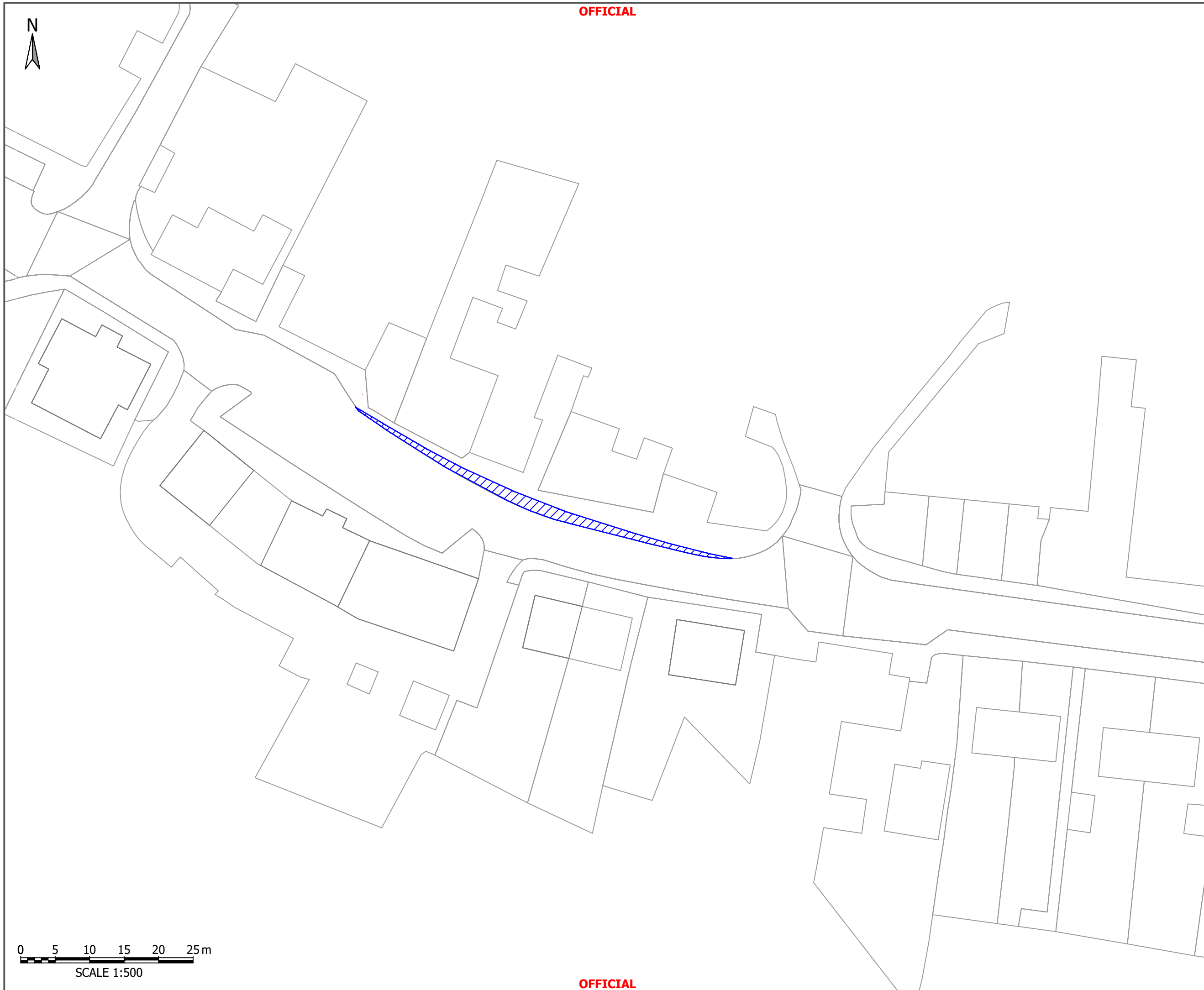


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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

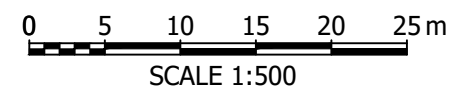
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
33 A839 LAIRG MAIN STREET

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

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BLADE

TOWER

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Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



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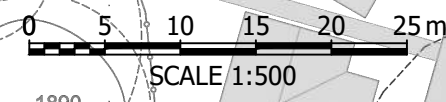
Project Name:
ACHANLY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
34A A839 / A836 LAIRG LEFT TURN

Model Reference	N/A	DID IDP Reference		LOD/LOI					
TTE Project Number		Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008		LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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PRJ01	TTE	00	ZZ	DR	SPA	026	P01		






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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING

Load bearing surface to be laid in over-run area.
Utilities to be protected.

0.25m clearance

0.27m clearance

0.39m clearance

MAIN STREET

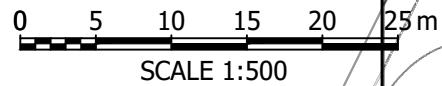
Car

Load bearing surface to be laid in over-run area.
Embankment re-profiling to carriageway level required.
Two lighting columns, three road signs, two public signs and sections of stone wall to be removed.
Multiple utilities to be protected.
Stone bench to be removed.
Trees and vegetation to be removed.

etty

Strathaird

Cnocgrianac



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

Project Location:
34A A839 / A836 LAIRG LEFT TURN

Model Reference	DSD IDP Reference		LOD/LOI					
N/A								
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
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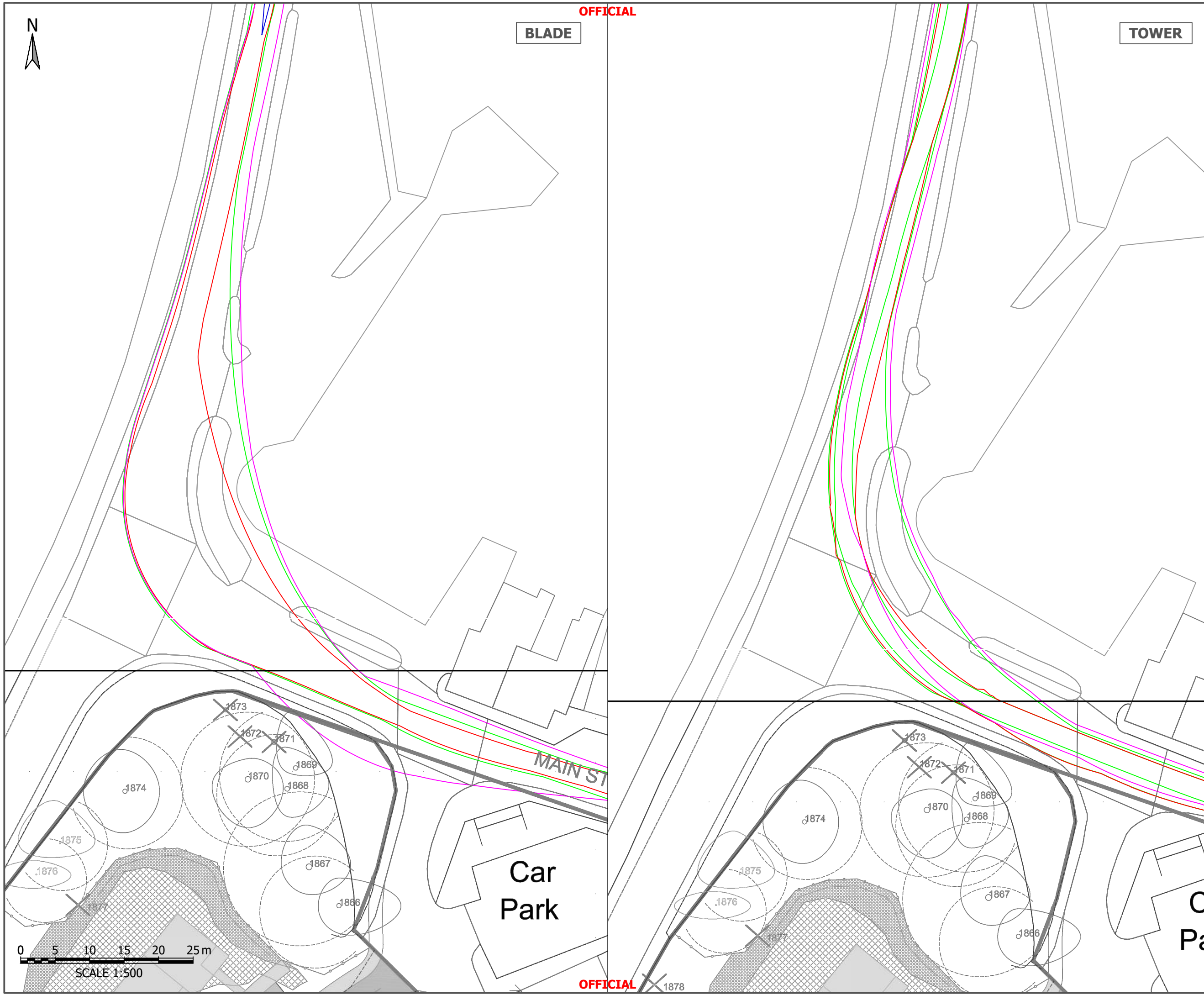


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BLADE

TOWER

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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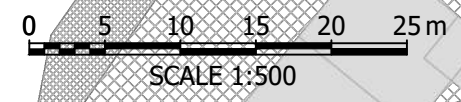
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

Plot Location:
34B/A839 / A836 LAIRG RIGHT TURN

Model Reference	DSD IDP Reference		LOD/LOT					
N/A								
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 026-3	P01	



Car Park

MAIN ST

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Load bearing surface to be laid in over-run area.

Load bearing surface to be laid in over-run area.
Two lighting columns and one post to be removed.
Stone wall and garden to be confirmed suitable for load over-sail.
Decorative planters to be removed.
Utilities to be protected.

One road sign and one local sign to be removed.
Tree canopy to be trimmed back and vegetation to be removed.

Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

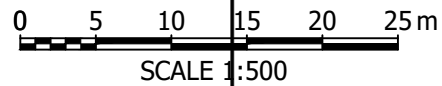
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
34B A839 / A836 LAIRG RIGHT TURN

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	026-4	P01



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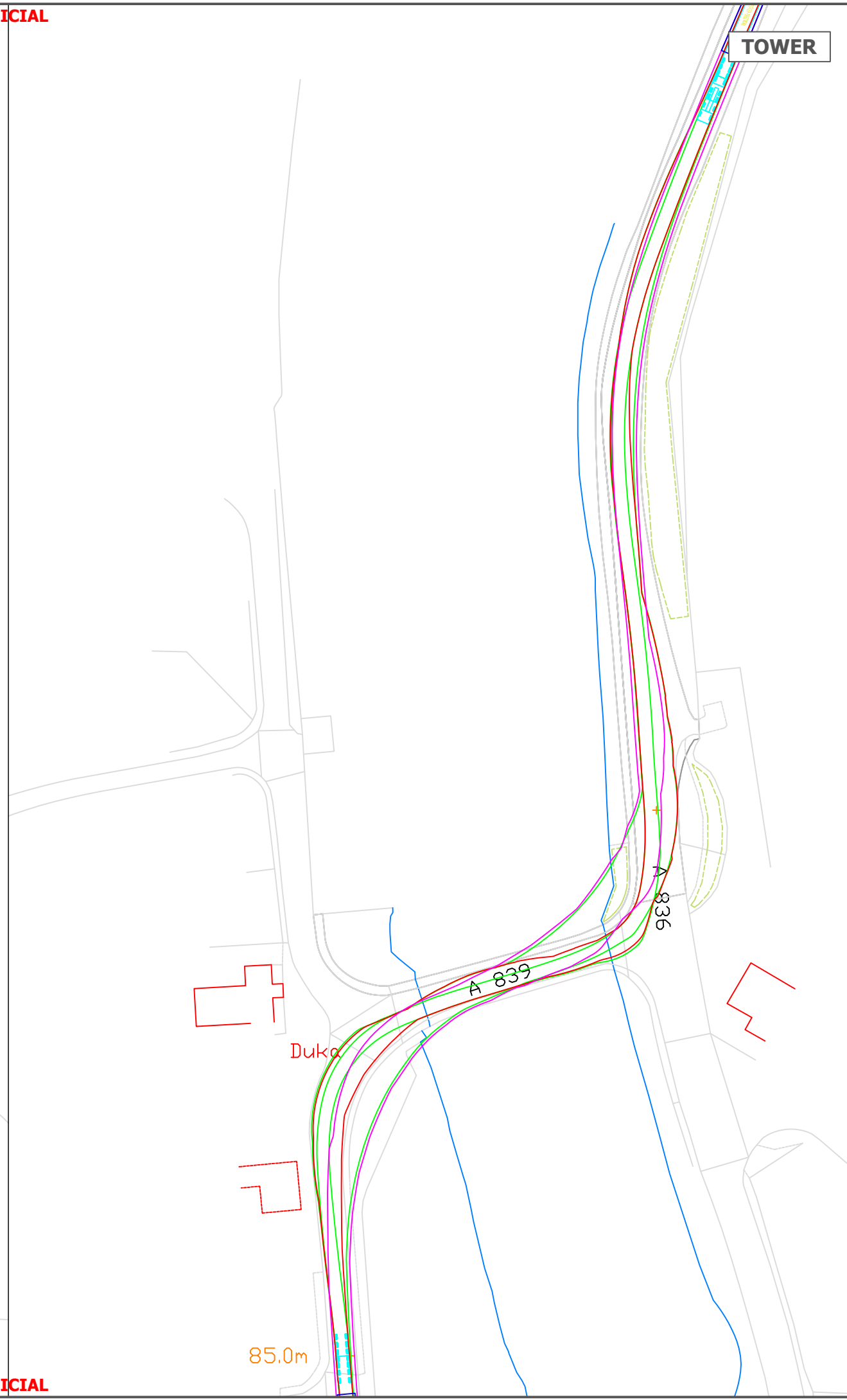
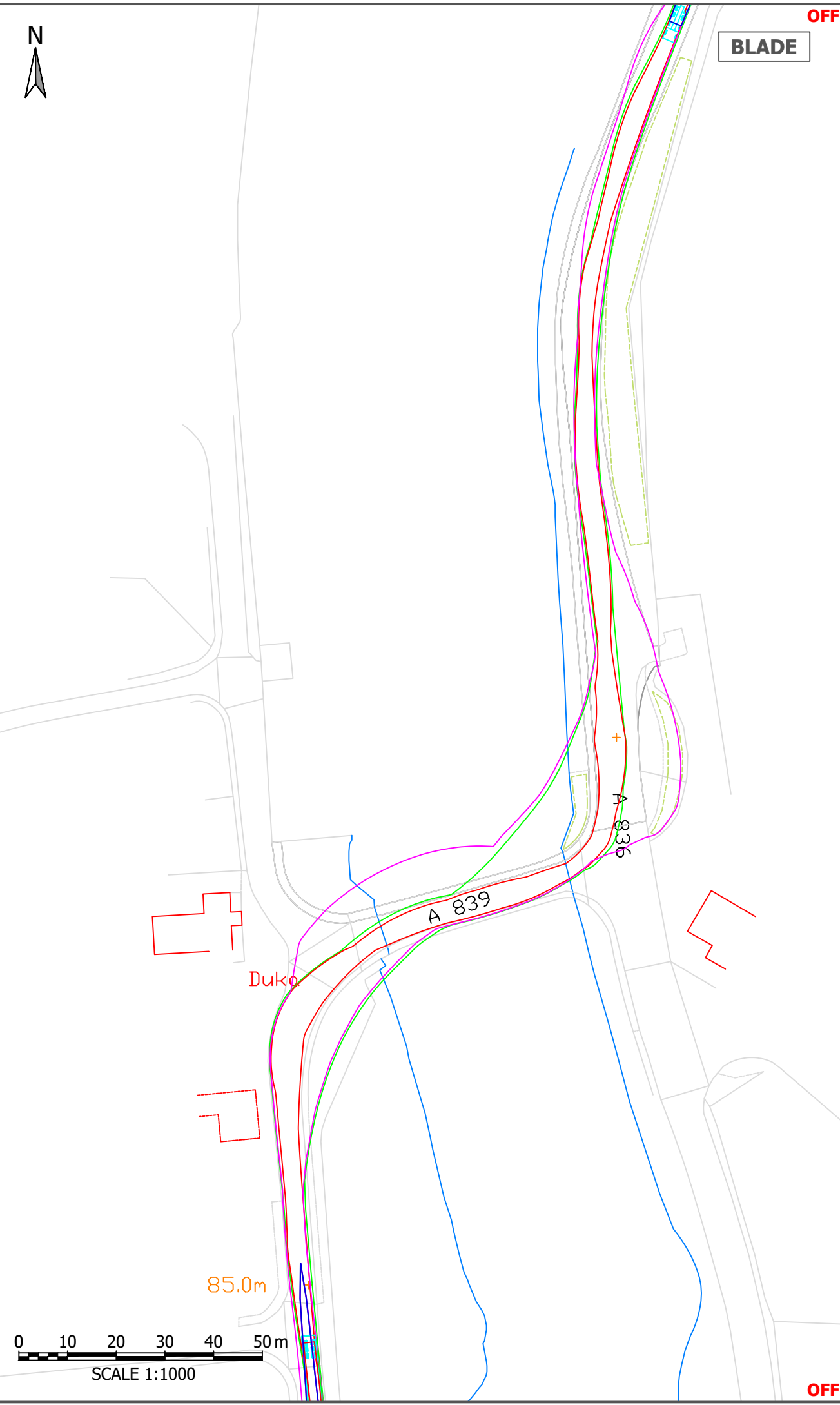


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BLADE

TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT - OPTION A




POI Location:
35 A836 / A839 BLACK BRIDGE, LAIRG

Model Reference	DSD IDP Reference		LOD/LOI
N/A	-		-
TTE Project Number	Drawn By	Checked By	Approved By
A117008	LJ	MG	JD
Client Project Number	Originator	Volume/System Level/Location	Type/Code
PRJ01	- TTE	- 00 - ZZ	- DR - SPA - 027
			Revision
			P01



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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

Three lighting columns and two road signs to be removed.
 Bridge guard-rail height to be confirmed suitable for load over-sail and safe clearances to be confirmed to OH pylon and stay wire.
 Armco barrier to be over-sailed.
 Vegetation to be removed.

One lighting column and two road signs to be removed.
 Embankment height to be confirmed suitable for blade tip over-sail.
 Sections of fence may require removal to increase clearances to blade tip.
 Trees and vegetation to be removed.

One telegraph pole, two lighting columns, two road signs and section of fence to be removed.
 Proximity to one OH electricity pylon to be confirmed through test-run or topographical survey, removal may be required.
 Bridge guard-rail height to be confirmed suitable for load over-sail.
 Armco barrier to be over-sailed.
 Trees and vegetation to be removed.

Duka

A 836

A 839

85.0m

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Rev	Description	Date	Drn / Ck	MG	JD
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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

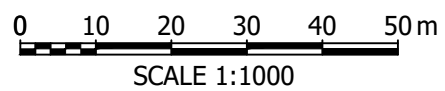
Sheet Title: REQUIRED REMEDIAL WORKS - OPTION A

PCN Location: 35 A836 / A839 BLACK BRIDGE, LAIRG

Model Reference: N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 027-2 P01



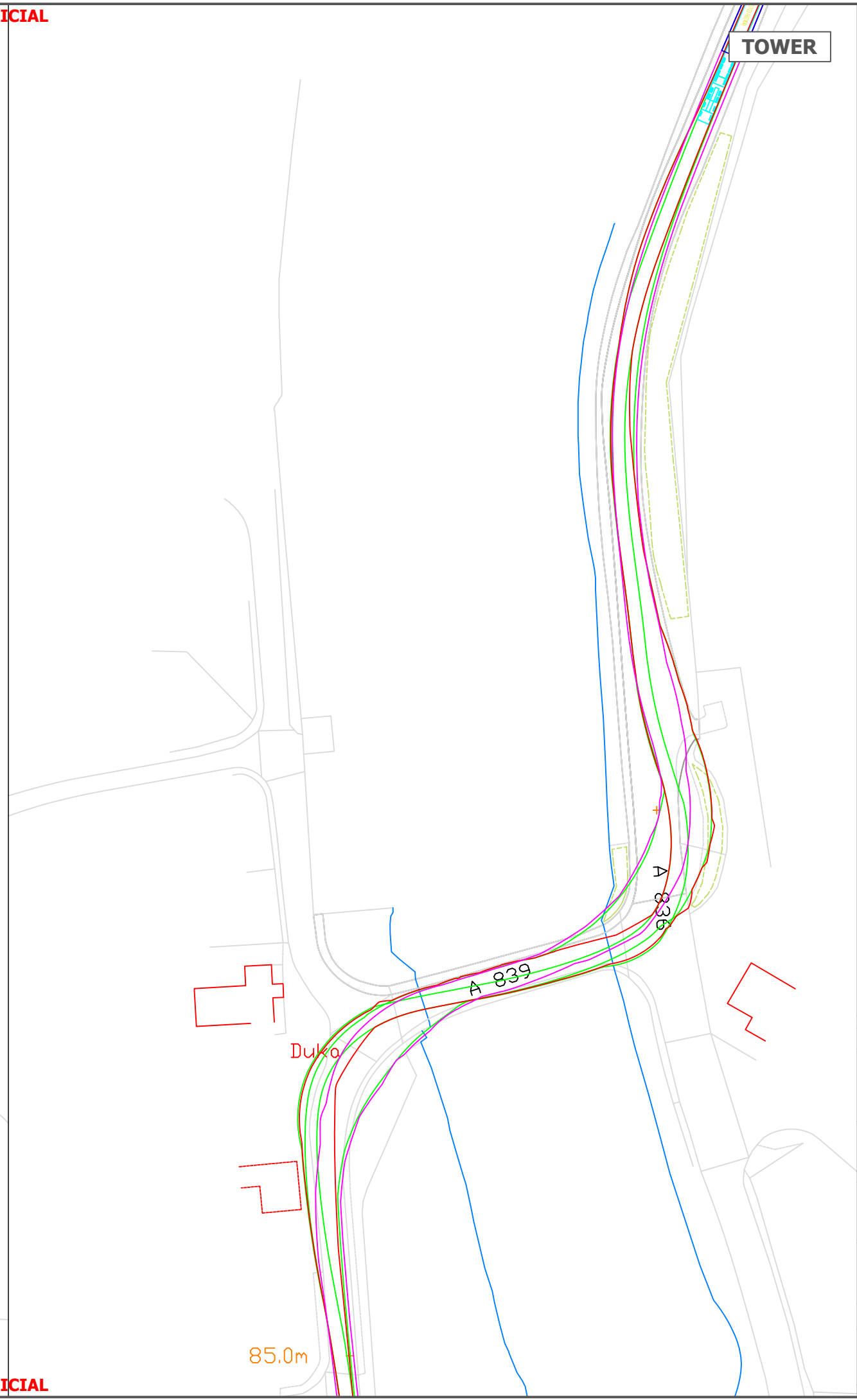
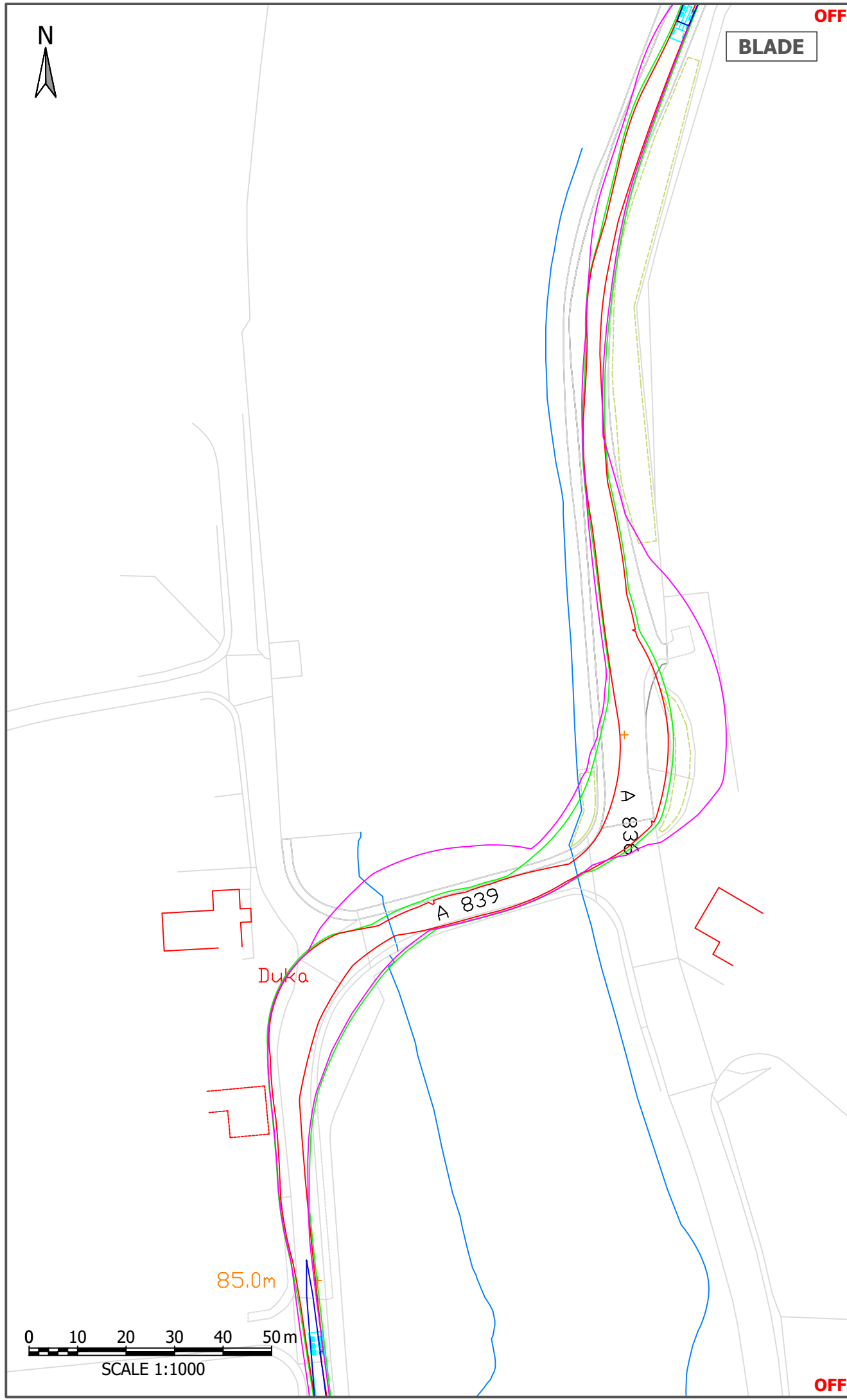


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BLADE

TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT - OPTION B

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

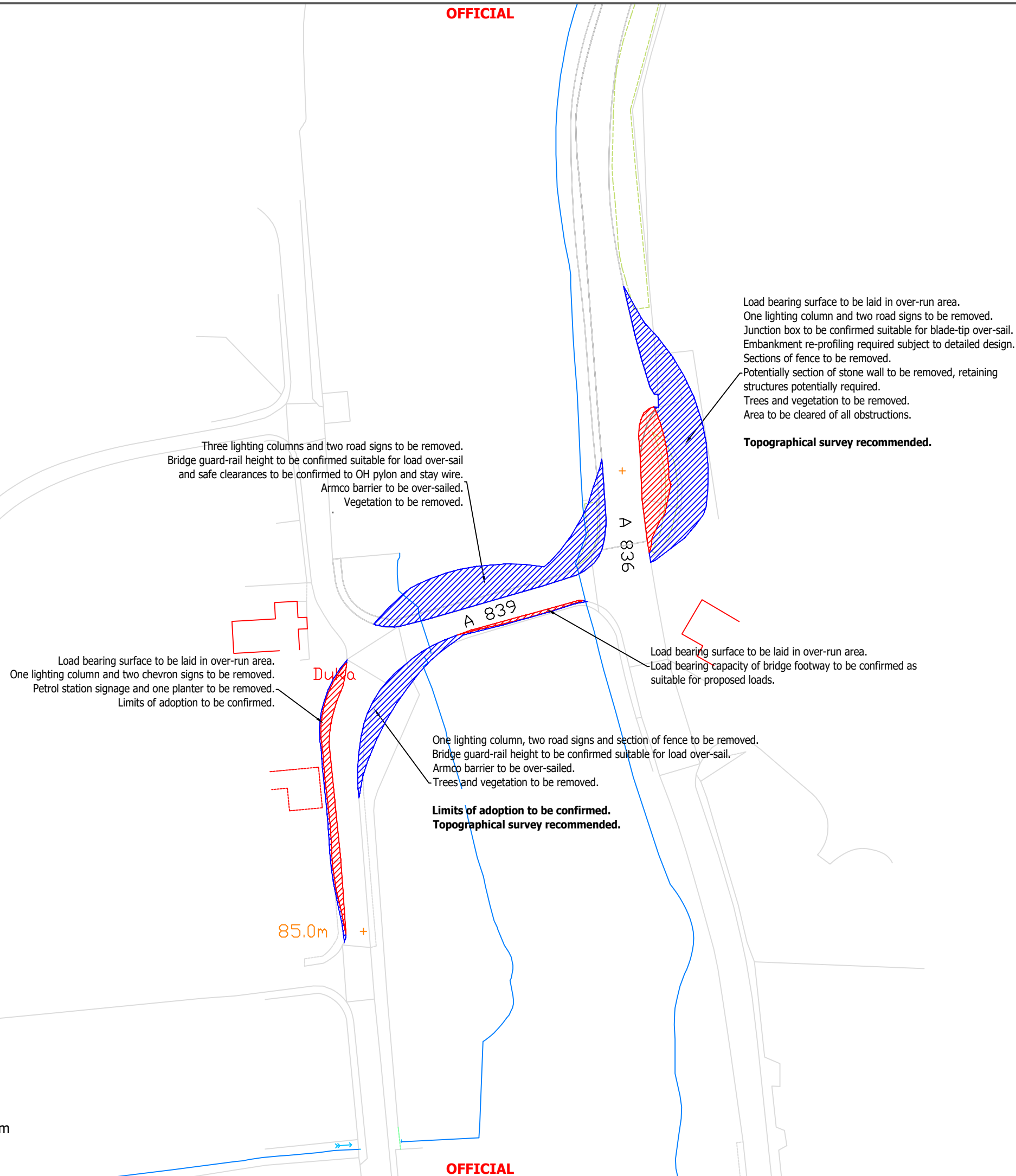
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0



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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING



Three lighting columns and two road signs to be removed.
 Bridge guard-rail height to be confirmed suitable for load over-sail
 and safe clearances to be confirmed to OH pylon and stay wire.
 Armco barrier to be over-sailed.
 Vegetation to be removed.

Load bearing surface to be laid in over-run area.
 One lighting column and two road signs to be removed.
 Junction box to be confirmed suitable for blade-tip over-sail.
 Embankment re-profiling required subject to detailed design.
 Sections of fence to be removed.
 Potentially section of stone wall to be removed, retaining
 structures potentially required.
 Trees and vegetation to be removed.
 Area to be cleared of all obstructions.

Topographical survey recommended.

Load bearing surface to be laid in over-run area.
 One lighting column and two chevron signs to be removed.
 Petrol station signage and one planter to be removed.
 Limits of adoption to be confirmed.

Load bearing surface to be laid in over-run area.
 Load bearing capacity of bridge footway to be confirmed as
 suitable for proposed loads.

One lighting column, two road signs and section of fence to be removed.
 Bridge guard-rail height to be confirmed suitable for load over-sail.
 Armco barrier to be over-sailed.
 Trees and vegetation to be removed.

**Limits of adoption to be confirmed.
Topographical survey recommended.**

85.0m +

A 836 +

A 839

Dukka

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: **REQUIRED REMEDIAL WORKS - OPTION B**

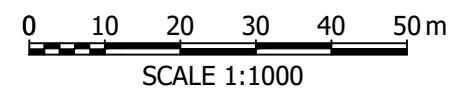
PC1 Location:
35 A836 / A839 BLACK BRIDGE, LAIRG

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	027B-2	P01

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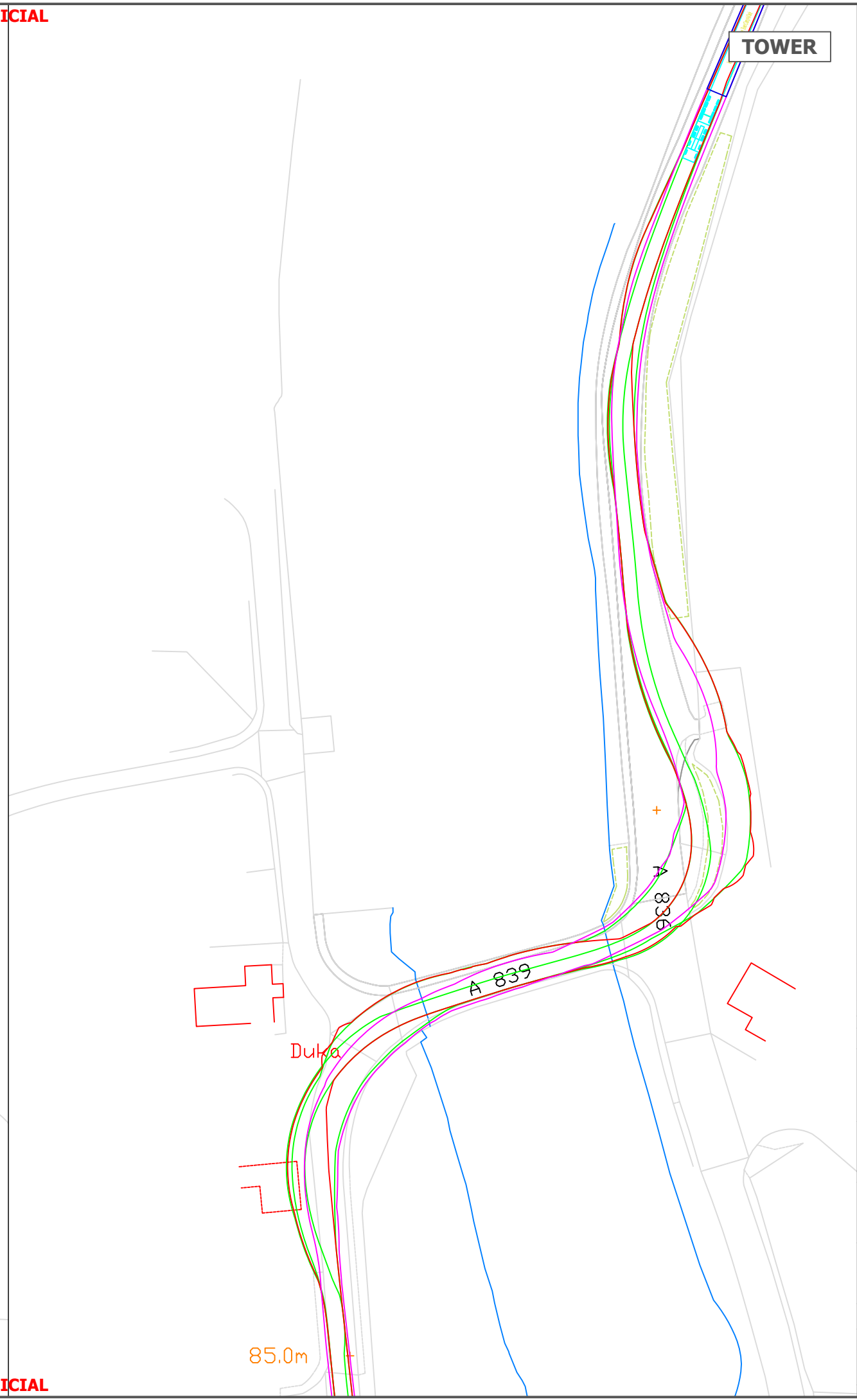
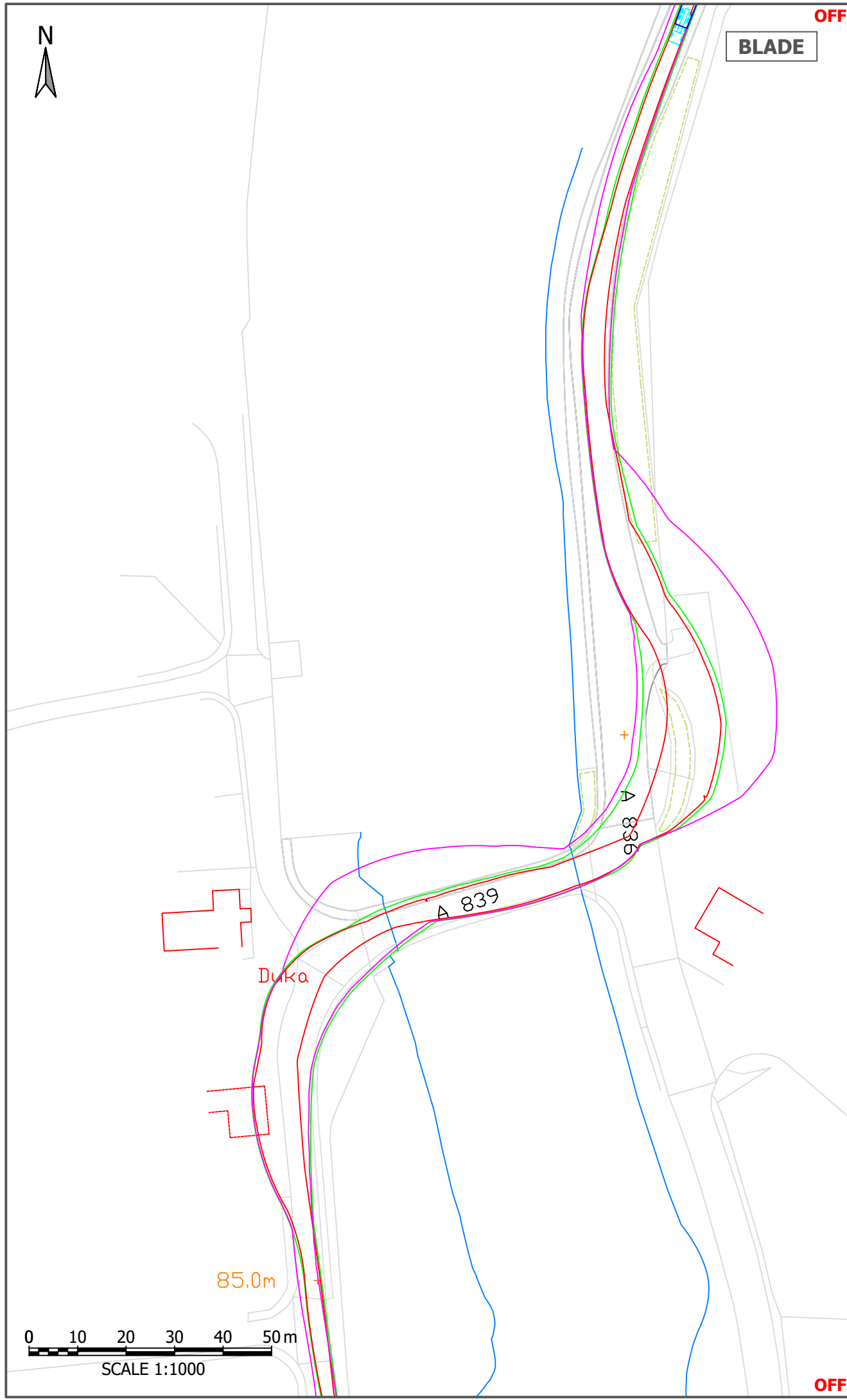


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BLADE

TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT - OPTION C

POI Location:
35 A836 / A839 BLACK BRIDGE, LAIRG

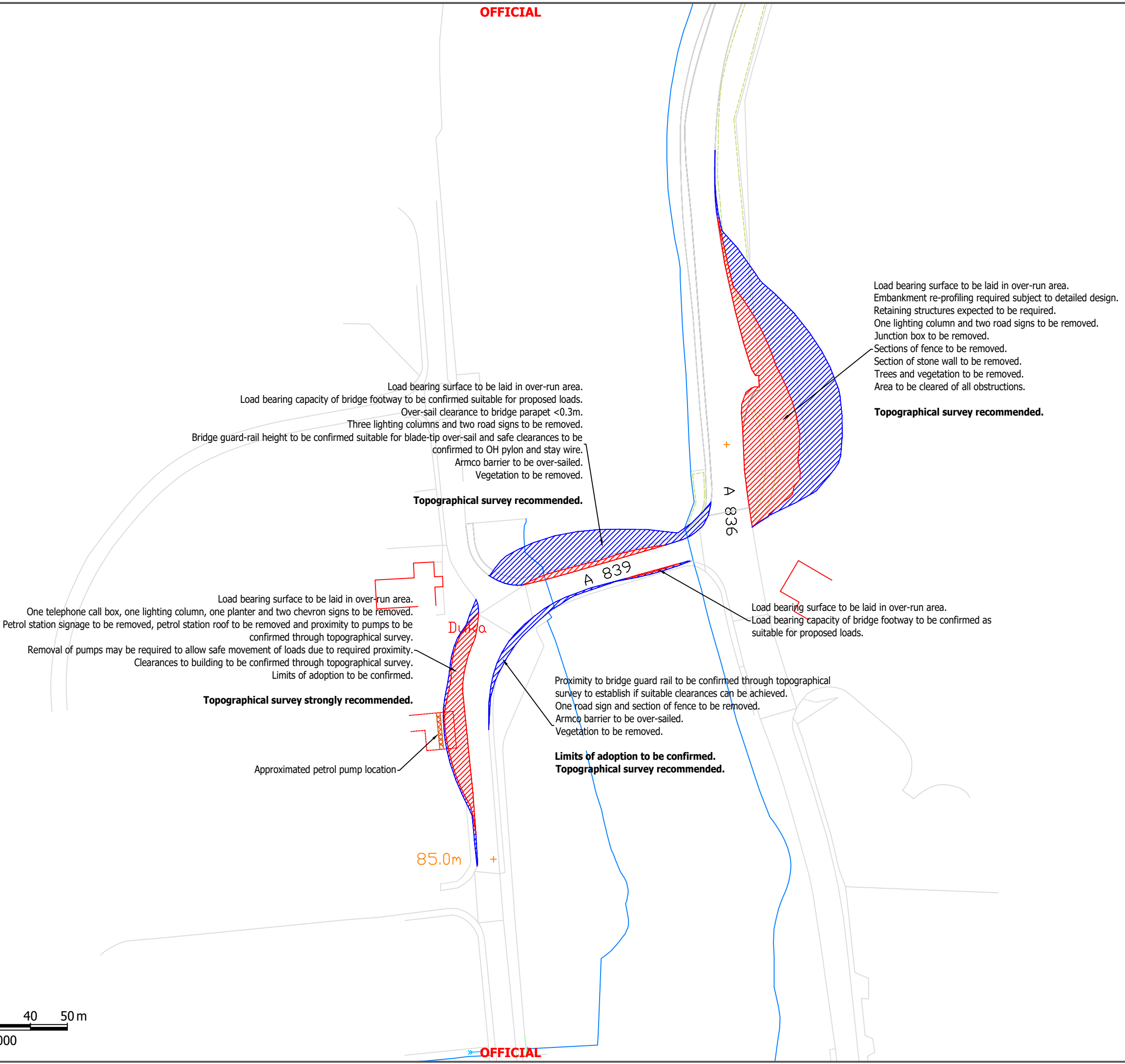
Model Reference	DSD IDP Reference		LOD/LOI
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TTE Project Number	Drawn By	Checked By	Approved By
A117008	LJ	MG	JD
Client Project Number	Originator	Volume/System Level/Location	Type/Code
PRJ01	- TTE	- 00 - ZZ	- DR - SPA - 027C
Scale @ A3	Stability	Number	Revision
As Shown	S0		P01



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Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING



Load bearing surface to be laid in over-run area.
 Embankment re-profiling required subject to detailed design.
 Retaining structures expected to be required.
 One lighting column and two road signs to be removed.
 Junction box to be removed.
 Sections of fence to be removed.
 Section of stone wall to be removed.
 Trees and vegetation to be removed.
 Area to be cleared of all obstructions.

Topographical survey recommended.

Load bearing surface to be laid in over-run area.
 Load bearing capacity of bridge footway to be confirmed suitable for proposed loads.
 Over-sail clearance to bridge parapet <0.3m.
 Three lighting columns and two road signs to be removed.
 Bridge guard-rail height to be confirmed suitable for blade-tip over-sail and safe clearances to be confirmed to OH pylon and stay wire.
 Armco barrier to be over-sailed.
 Vegetation to be removed.

Topographical survey recommended.

Load bearing surface to be laid in over-run area.
 One telephone call box, one lighting column, one planter and two chevron signs to be removed.
 Petrol station signage to be removed, petrol station roof to be removed and proximity to pumps to be confirmed through topographical survey.
 Removal of pumps may be required to allow safe movement of loads due to required proximity.
 Clearances to building to be confirmed through topographical survey.
 Limits of adoption to be confirmed.

Topographical survey strongly recommended.

Proximity to bridge guard rail to be confirmed through topographical survey to establish if suitable clearances can be achieved.
 One road sign and section of fence to be removed.
 Armco barrier to be over-sailed.
 Vegetation to be removed.

Limits of adoption to be confirmed. Topographical survey recommended.

Load bearing surface to be laid in over-run area.
 Load bearing capacity of bridge footway to be confirmed as suitable for proposed loads.

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P01	PRELIMINARY FIRST ISSUE	10.02.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS - OPTION C

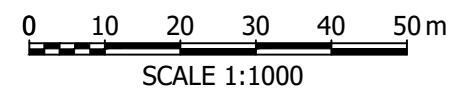
PCN Location:
35 A836 / A839 BLACK BRIDGE, LAIRG

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	027C-2	P01

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BLADE

TOWER

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING

A 839

A 839

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Client: SSE RENEWABLES

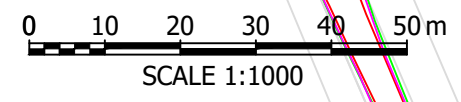
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
36 A839 - LAIRG FREE CHURCH

Model Reference		DSD IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	00	ZZ	DR	SPA	028	P01	






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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

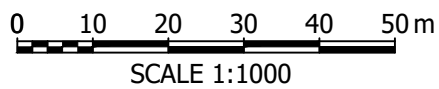
Two road signs to be set-back or socketed.
Tree canopy to be trimmed back and vegetation cleared.

One road sign to be set-back or socketed.
Tree canopy to be trimmed back and vegetation cleared.
Utilities within verge to be protected.

Tree canopy to be trimmed back and vegetation cleared.
Limits of adoption to be confirmed.

Tree canopy to be trimmed back and vegetation cleared.
Limits of adoption to be confirmed.

A 839



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
36 | A839 - LAIRG FREE CHURCH

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	028-2	P01



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BLADE

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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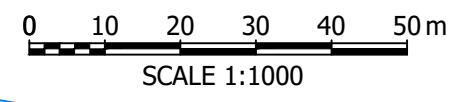
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
37 A839 / B864, LAIRG

Model Reference		DSD IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 029	P01	

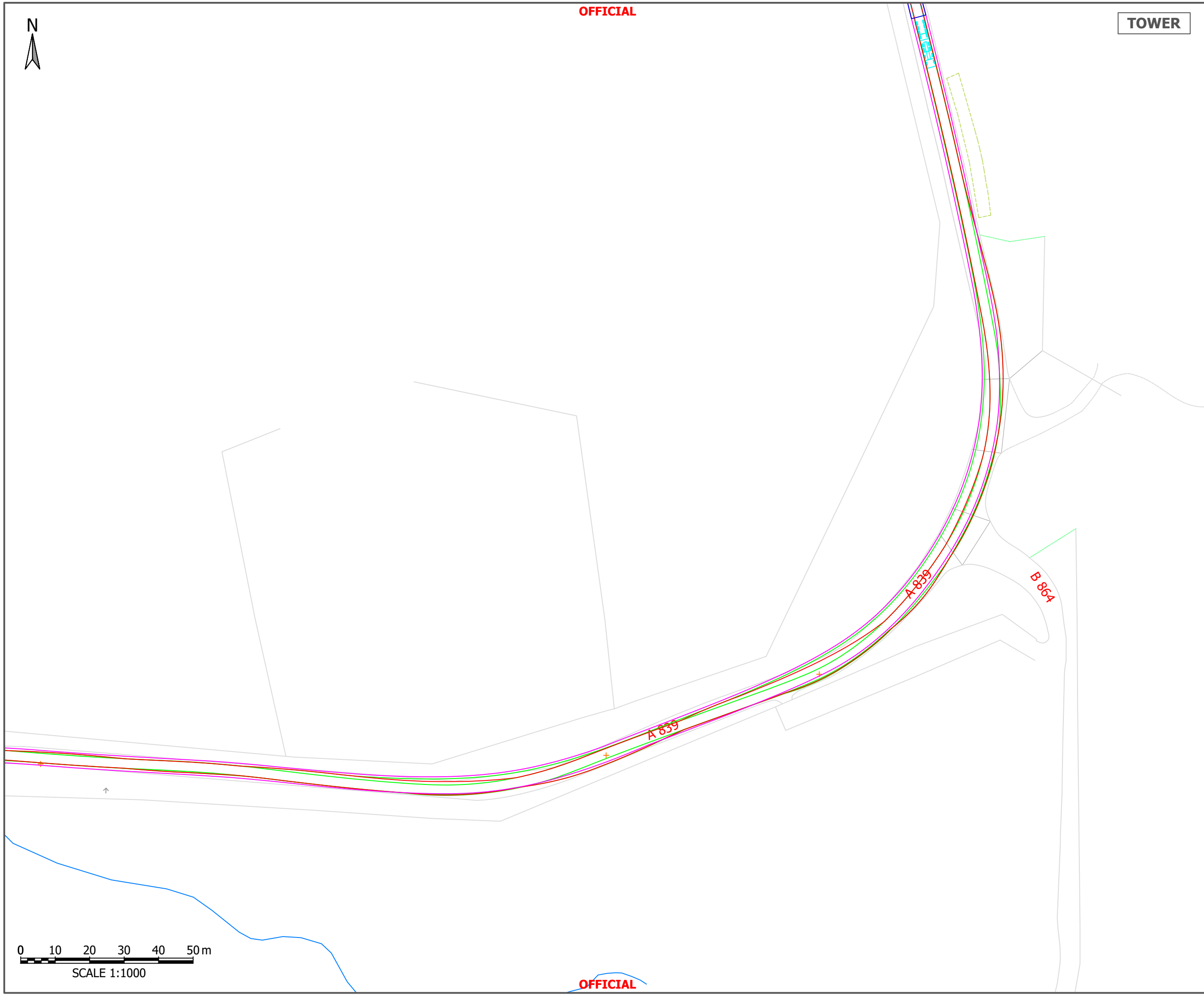


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TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Project Name:
ACHANY EXT WIND FARM

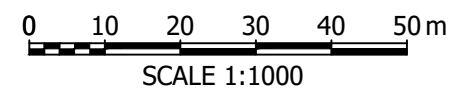
Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
37 A839 / B864, LAIRG




Model Reference				DSD IDP Reference		LOD/LOI		
N/A				-		-		
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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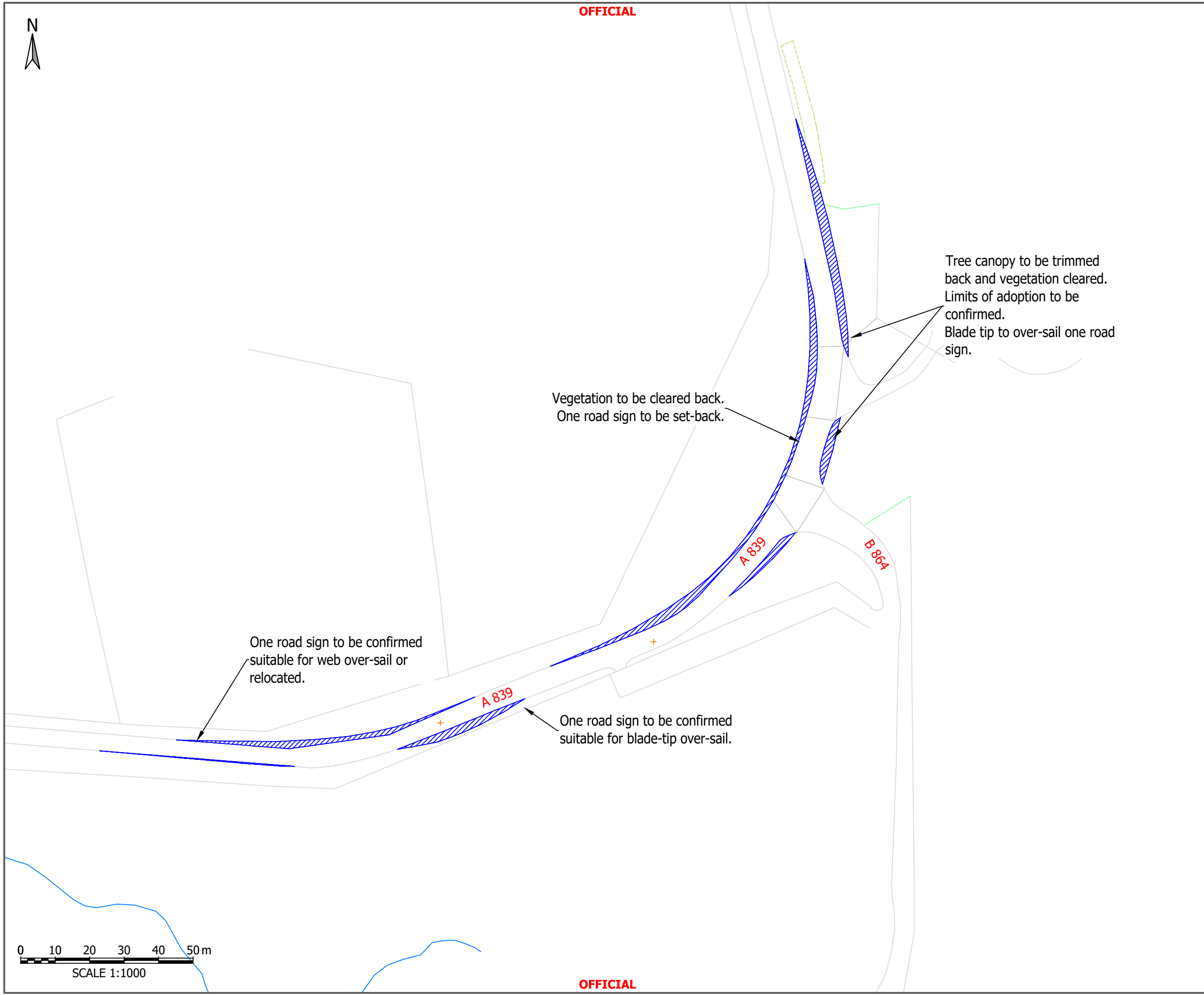
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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
 ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

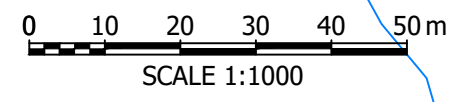
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
37 A839 / B864, LAIRG

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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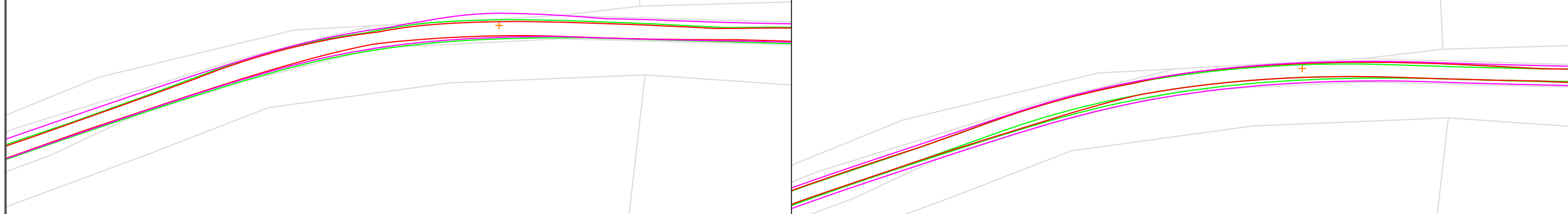


BLADE

TOWER

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: **SSE RENEWABLES**

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

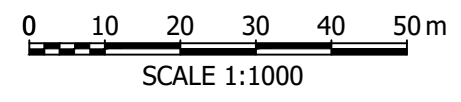
Sheet Title:
SWEEP PATH ASSESSMENT

POI: **38** Location: **A839, MINOR LEFT BEND WEST OF B864**

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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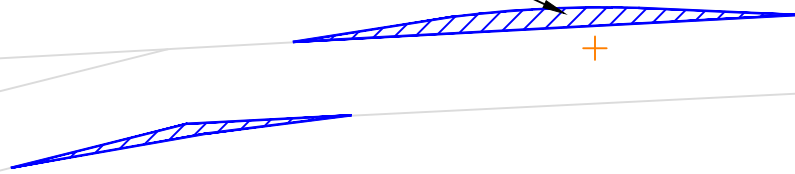
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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING

Mapping alignment differs from on-site observations.
Over-sail expected to remain within adopted boundary.
Test-run recommended.



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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

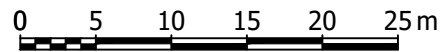
Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
38 A839, MINOR LEFT BEND WEST OF B864

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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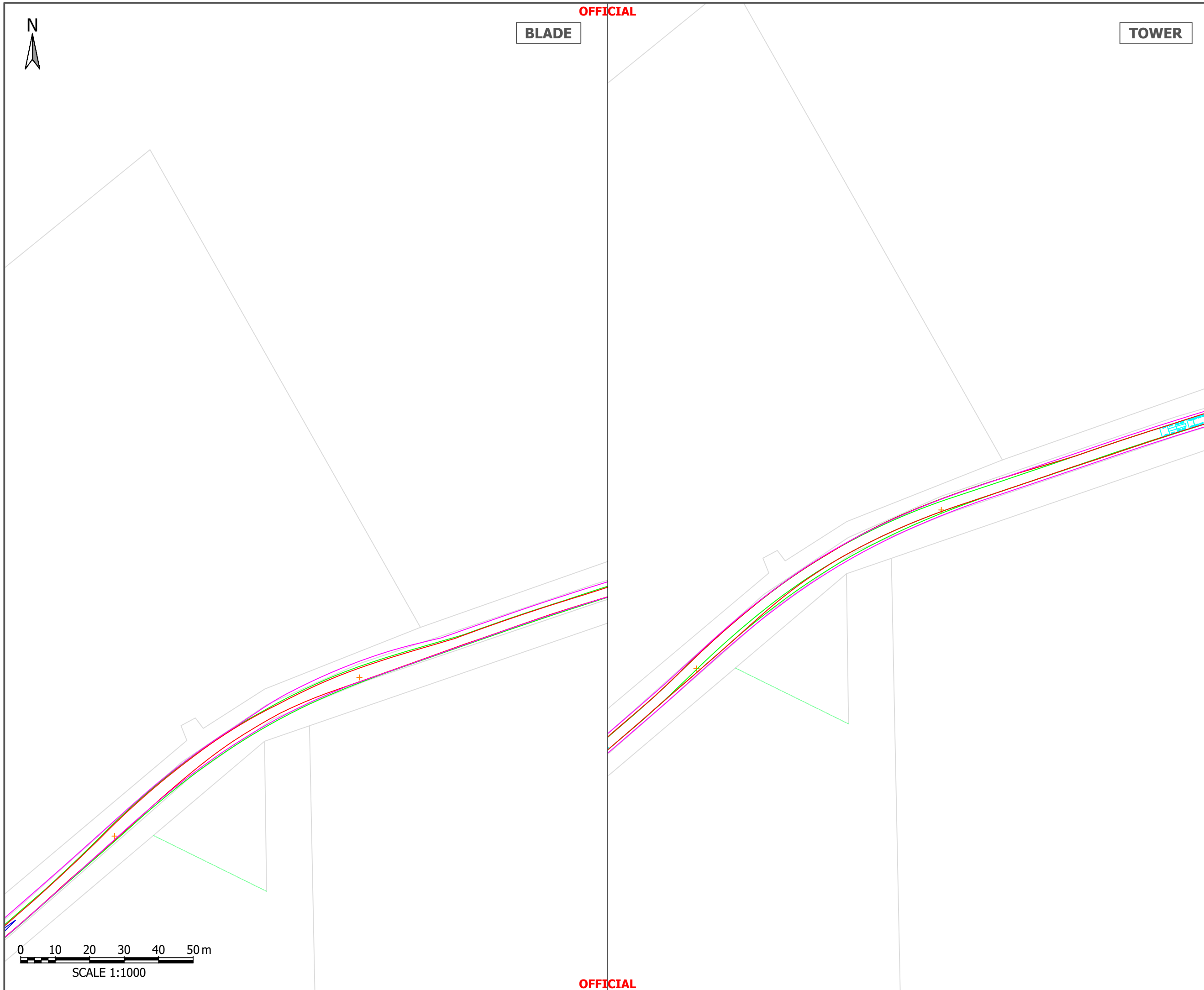


BLADE

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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

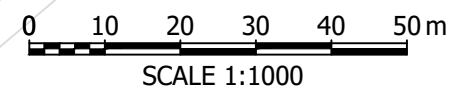
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
39 A839 LEFT BEND APPROACHING CLAONEL

Model Reference		DDP IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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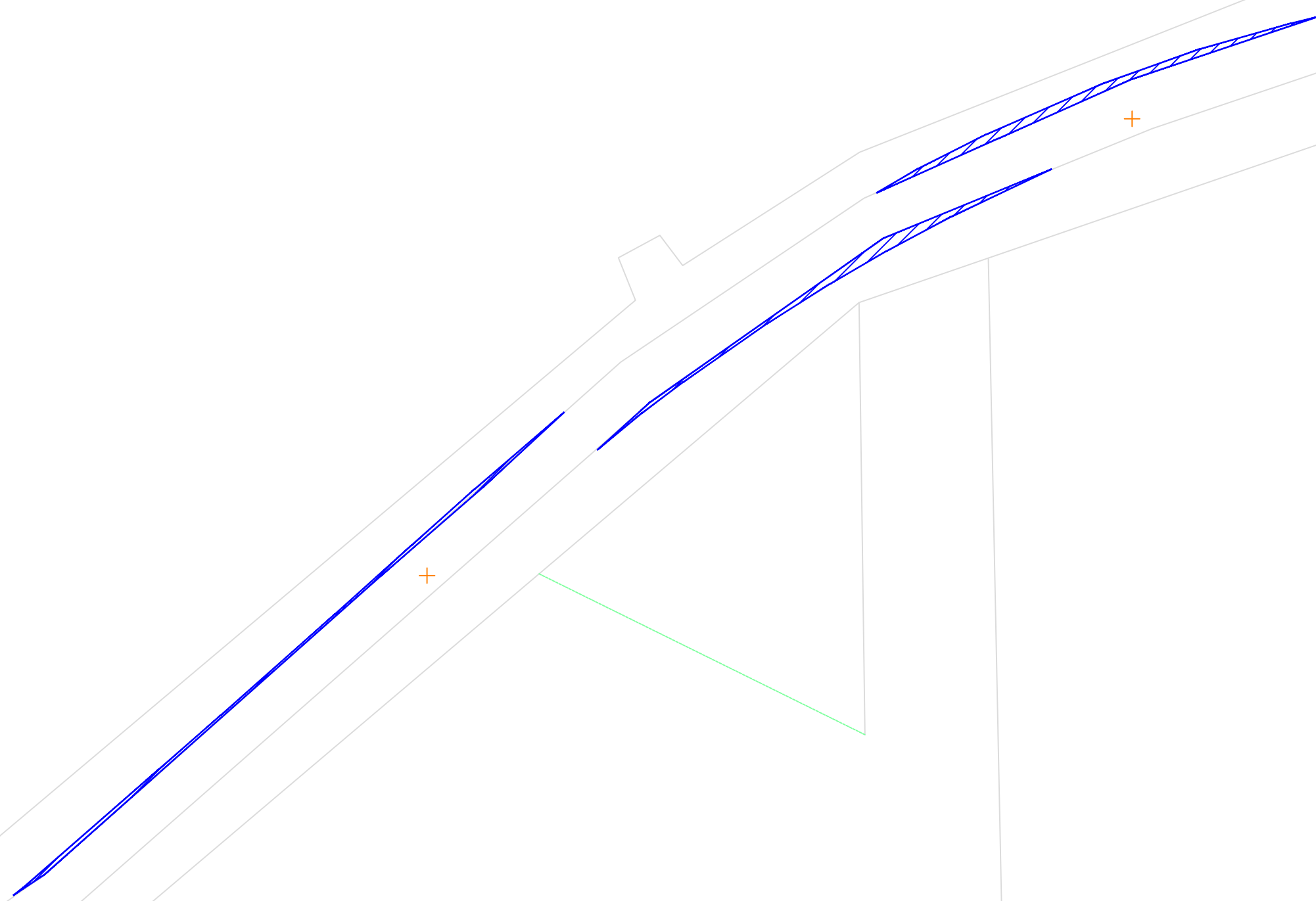
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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P01	PRELIMINARY FIRST ISSUE	10.02.2021		LJ	MG	JD

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Client:
SSE RENEWABLES

Project Name:
 ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

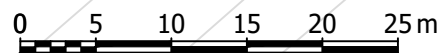
Sheet Title:
 REQUIRED REMEDIAL WORKS

POI Location:
39 A839 LEFT BEND APPROACHING CLAONEL

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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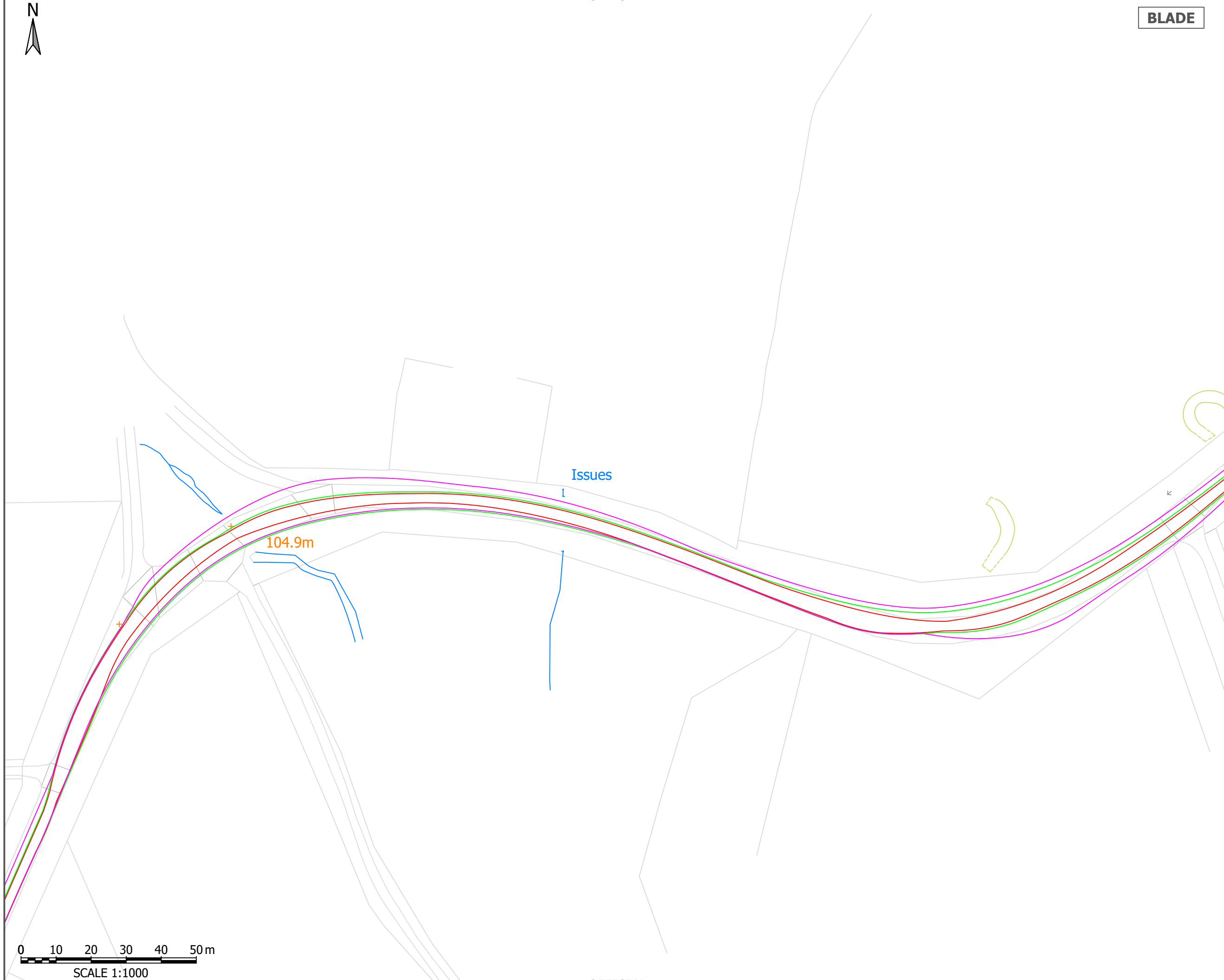
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BLADE

Key:

- LOAD SWEPT PATH
- VEHICLE SWEPT PATH
- WHEEL SWEPT PATH
- ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

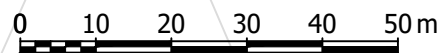
Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
40 A839 SERIES OF BENDS, CLAONEL

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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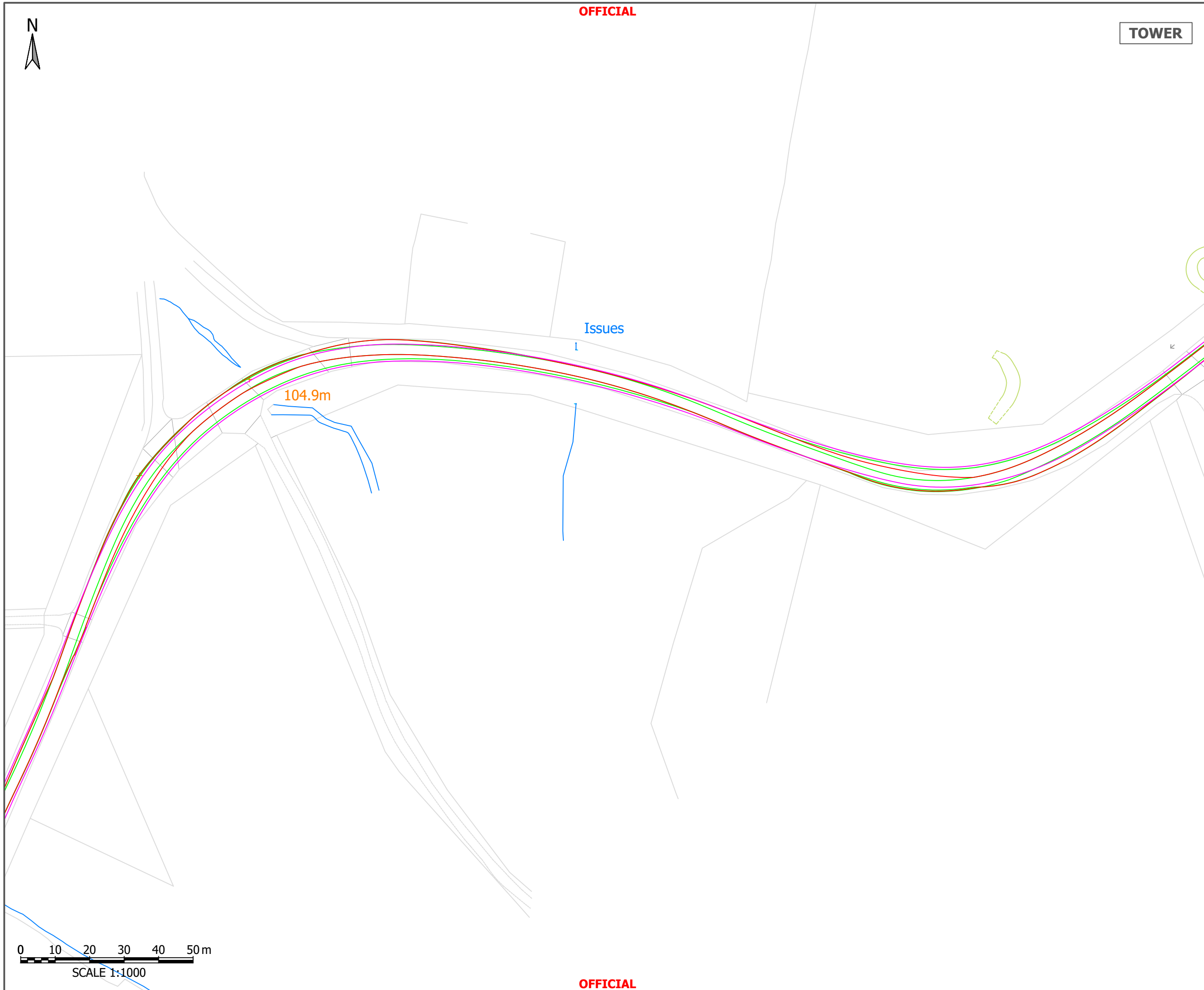
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TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



Issues

104.9m

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SSE RENEWABLES

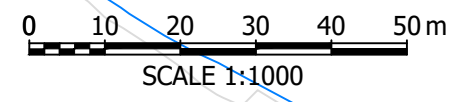
Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
40 A839 SERIES OF BENDS, CLAONEL

Model Reference		DDP IDP Reference		LOD/LOI				
N/A		-		-				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0
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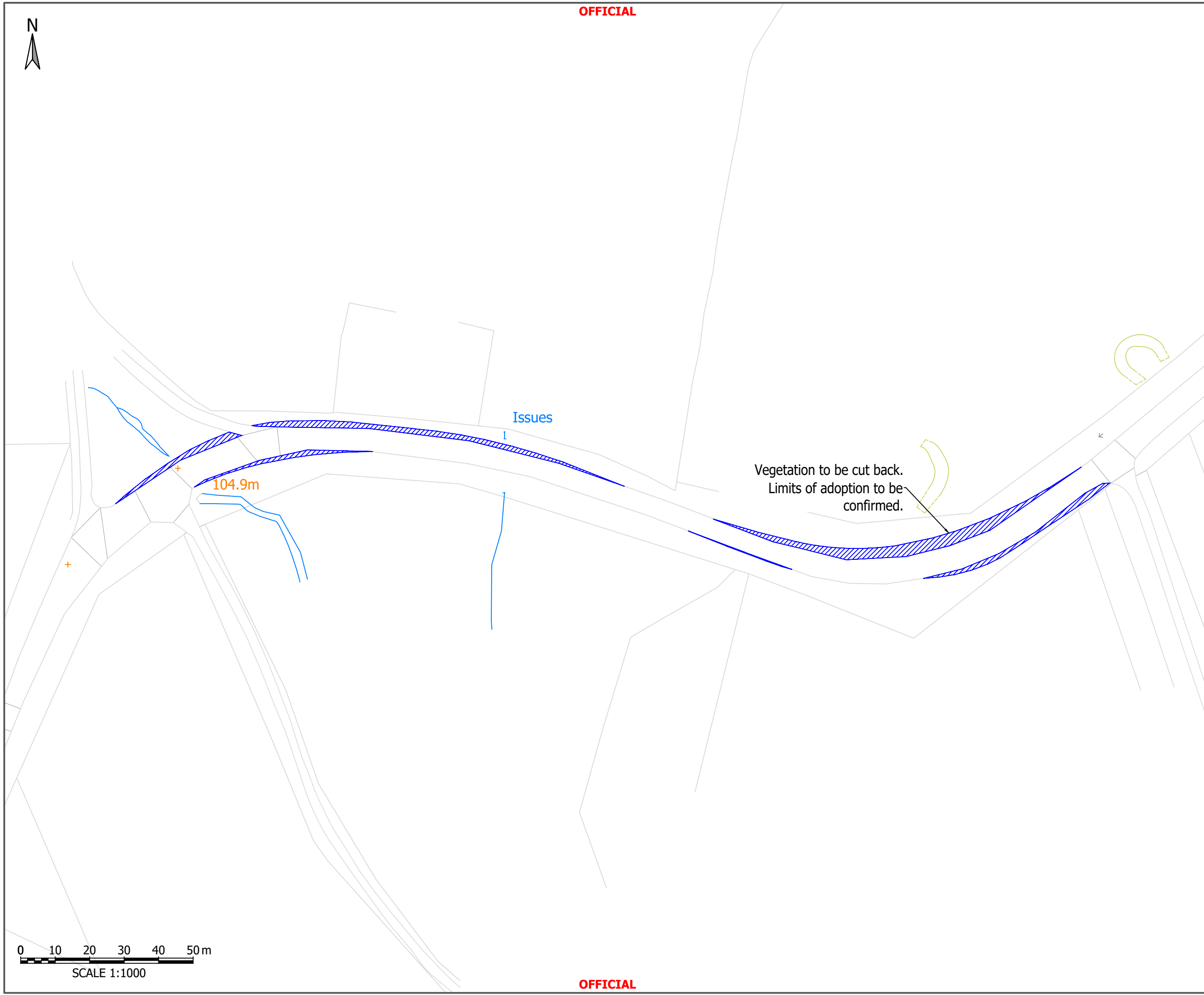
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

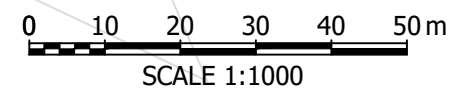
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
40 A839 SERIES OF BENDS, CLAONEL

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	032-3	P01



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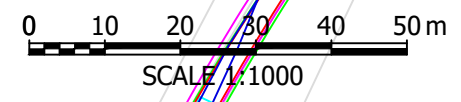
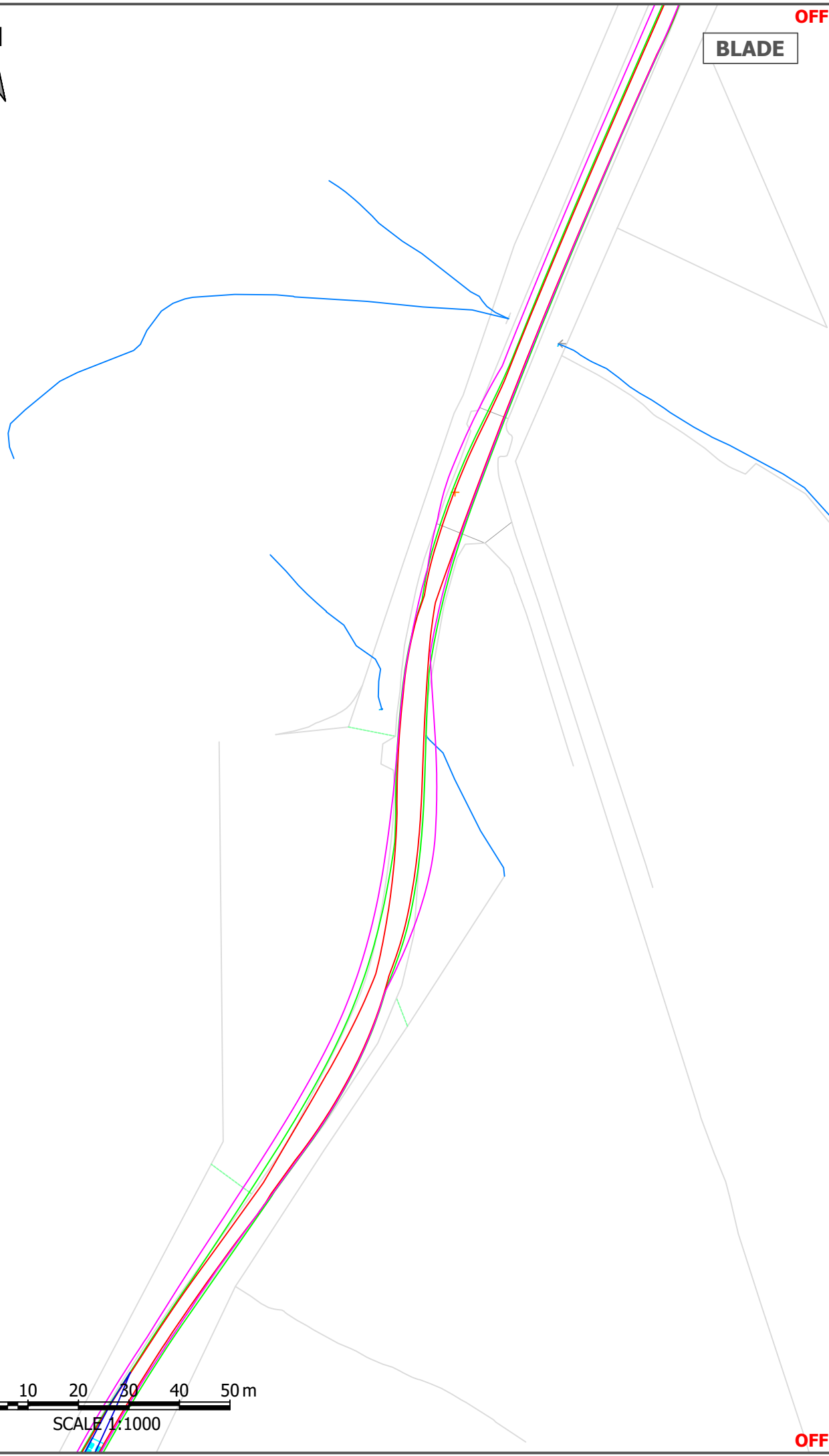


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BLADE

TOWER

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: SWEPT PATH ASSESSMENT

POI Location: 41 A839 SERIES OF BENDS, SOUTH OF CLAONEL

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0




Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	033	P01



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Vegetation to be cleared.
One road sign to be relocated.

Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

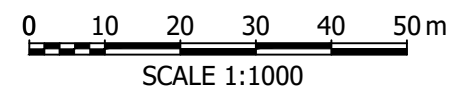
Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
41 A839 SERIES OF BENDS, SOUTH OF CLAONEL

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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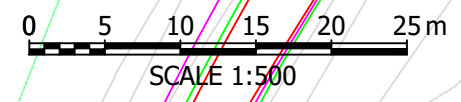
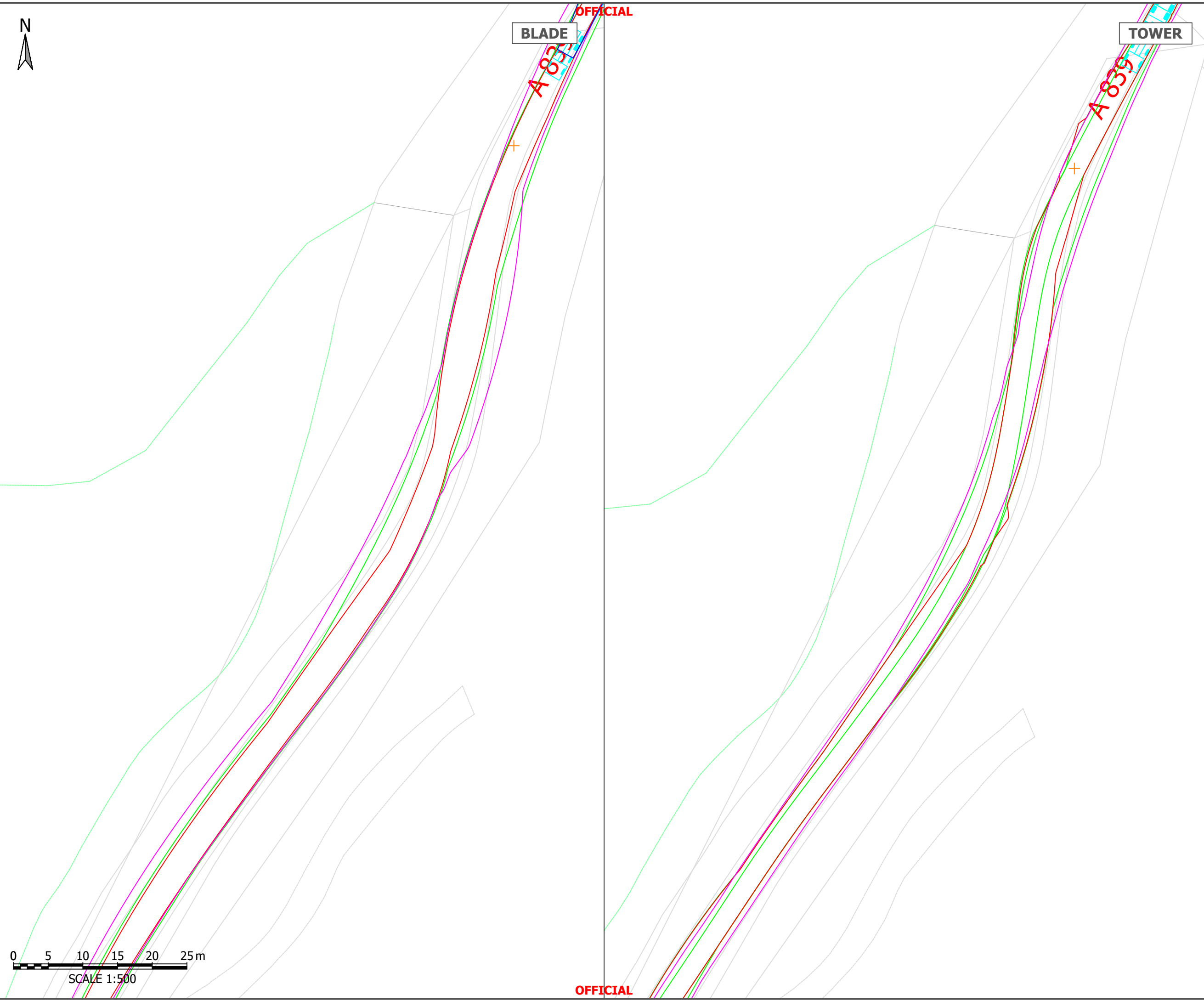
BLADE

TOWER

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- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
42 A839 SERIES OF BENDS ENTERING RAEMORE WOOD

Model Reference: N/A
DDP IDP Reference: LOD/LGI

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	034	P01



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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING

0.74m clearance to overhead utility pole.

A 839

Load bearing surface to be laid in over-run area subject to strength testing of verge.
 Carriageway width to be confirmed to meet manufacturers minimum width standards throughout.
 A test-run is recommended.

Vegetation to be cleared.
 One road sign to be relocated or socketed.
 Blade web to over-sail embankment.

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Client: SSE RENEWABLES

Project Name:
 ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

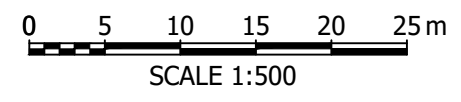
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
42 A839 SERIES OF BENDS ENTERING RAEMORE WOOD

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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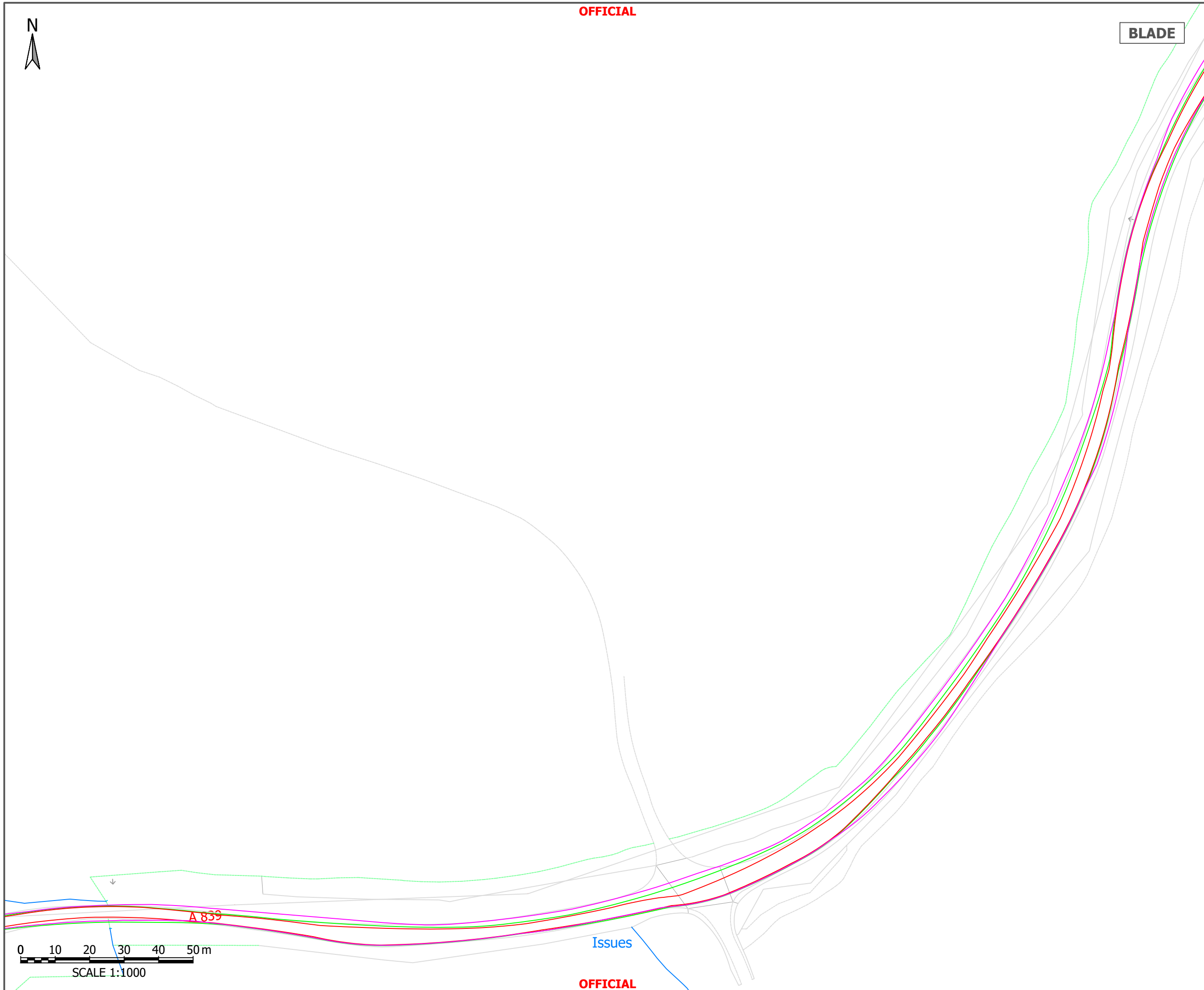
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BLADE

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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Client:
SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

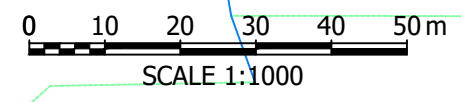
Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
43 A839 SERIES OF BENDS, RAEMORE WOOD

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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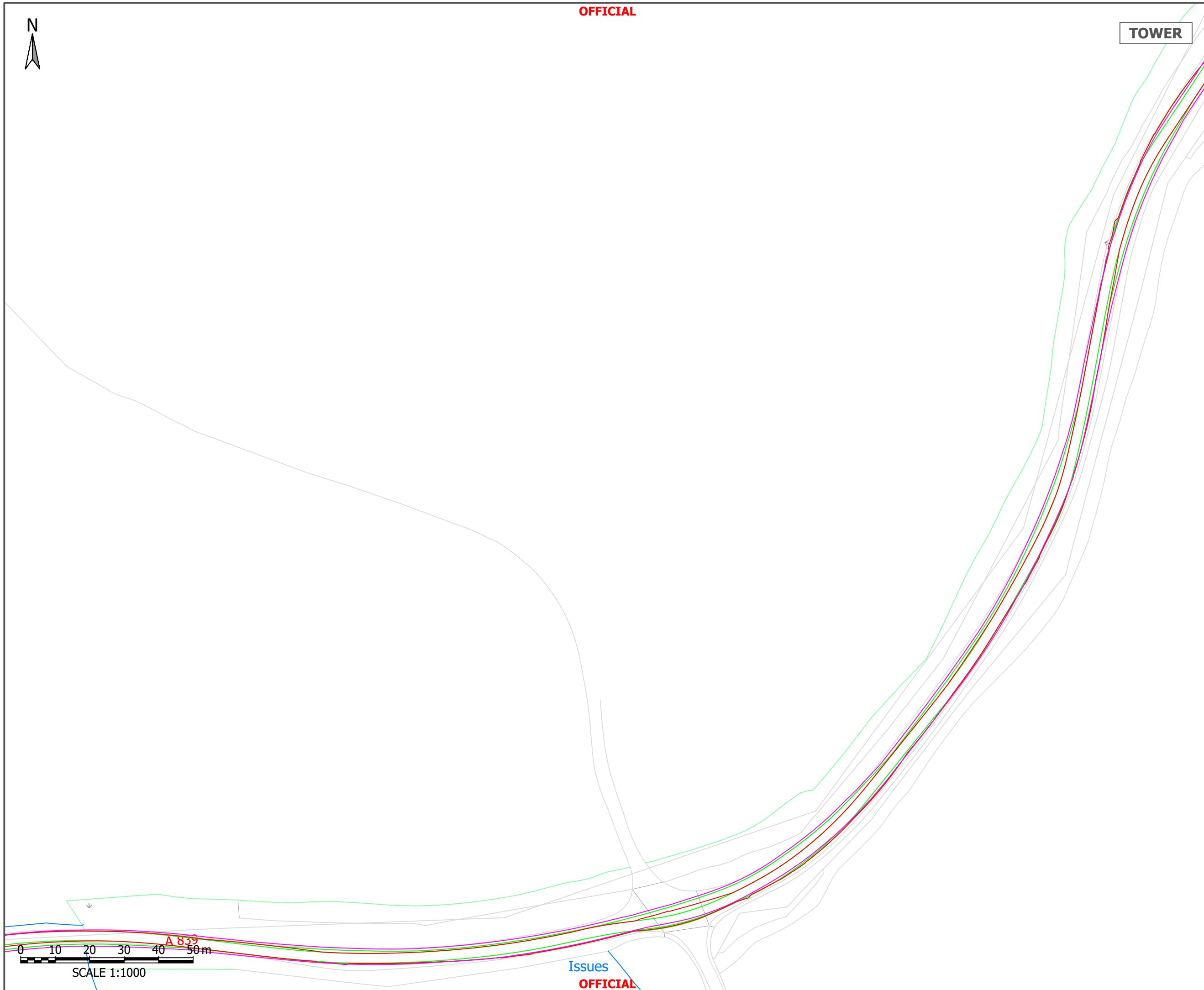
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TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

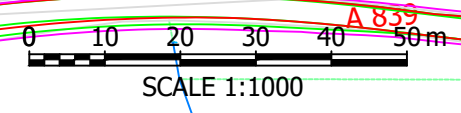
Sheet Title: SWEEP PATH ASSESSMENT

POI Location:
43 A839 SERIES OF BENDS, RAEMORE WOOD

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Key:

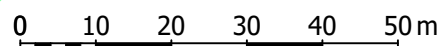
- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING

Clearances to telegraph stay wire to be confirmed during test-run.

Clearances to telegraph stay wire to be confirmed during test-run.

Issues

A 8.39



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
43 A839 SERIES OF BENDS, RAEMORE WOOD

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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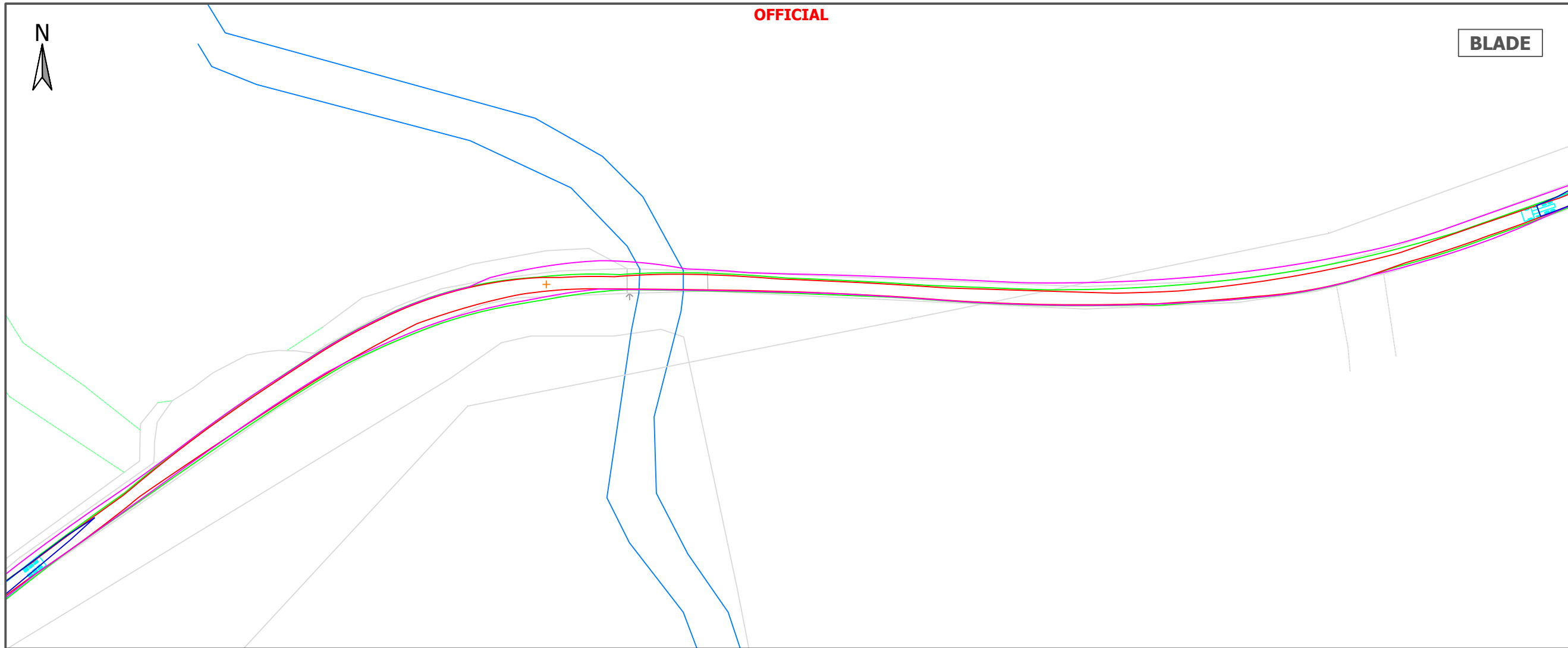
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BLADE

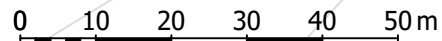
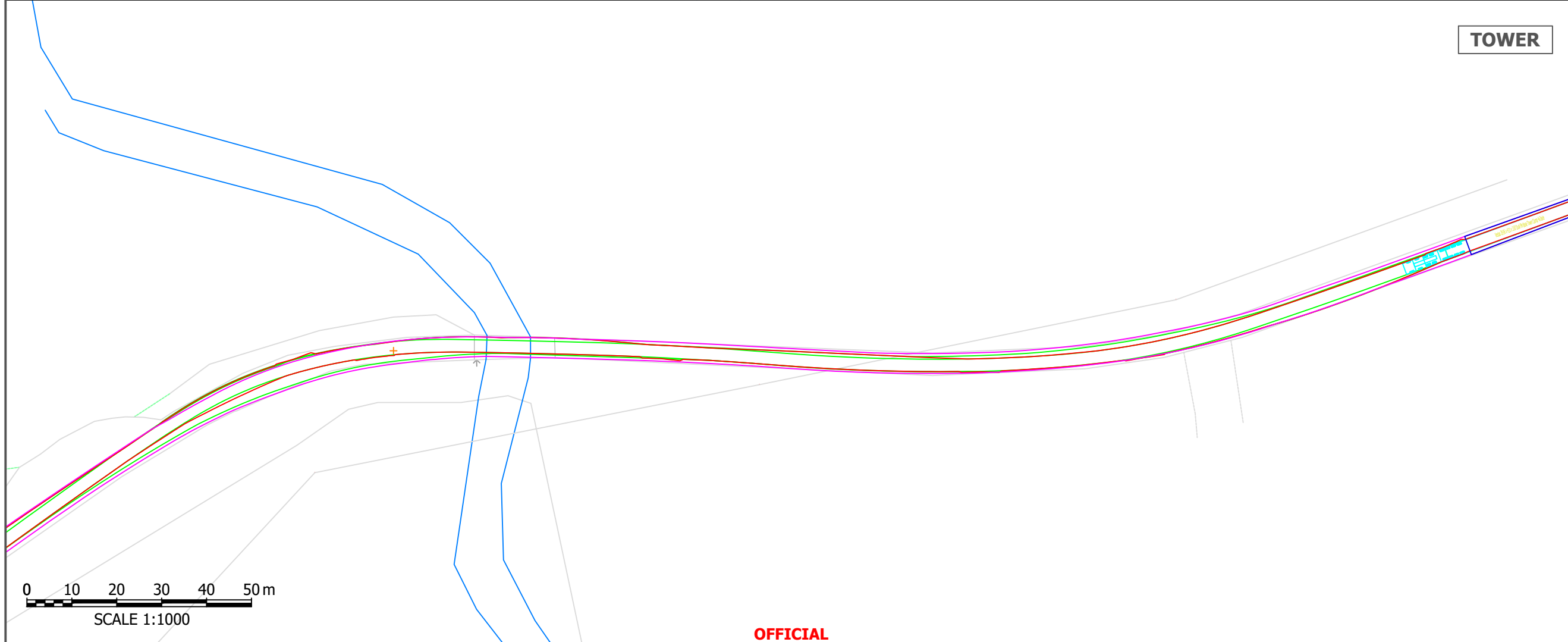
Key:

- LOAD SWEEP PATH
- VEHICLE SWEEP PATH
- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



TOWER

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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
44 A839 CROSSING GRUDIE BURN

Model Reference: N/A
 DID IDP Reference: -
 LOD/LGI: -




TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

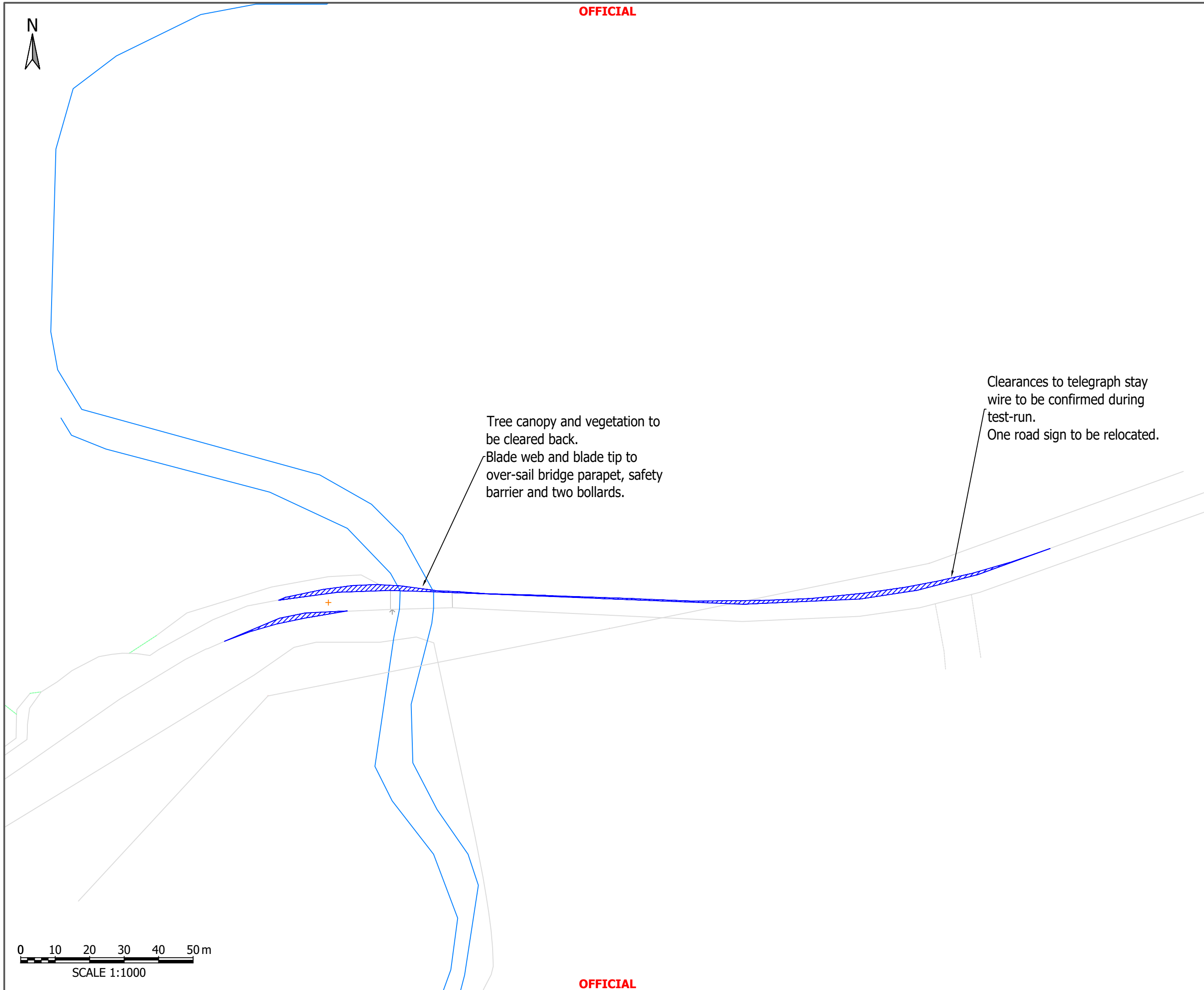
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



Tree canopy and vegetation to be cleared back.
Blade web and blade tip to over-sail bridge parapet, safety barrier and two bollards.

Clearances to telegraph stay wire to be confirmed during test-run.
One road sign to be relocated.

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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

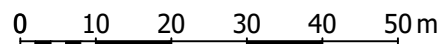
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REQUIRED REMEDIAL WORKS

PCN Location:
44 AB39 CROSSING GRUDIE BURN

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	036-2	P01



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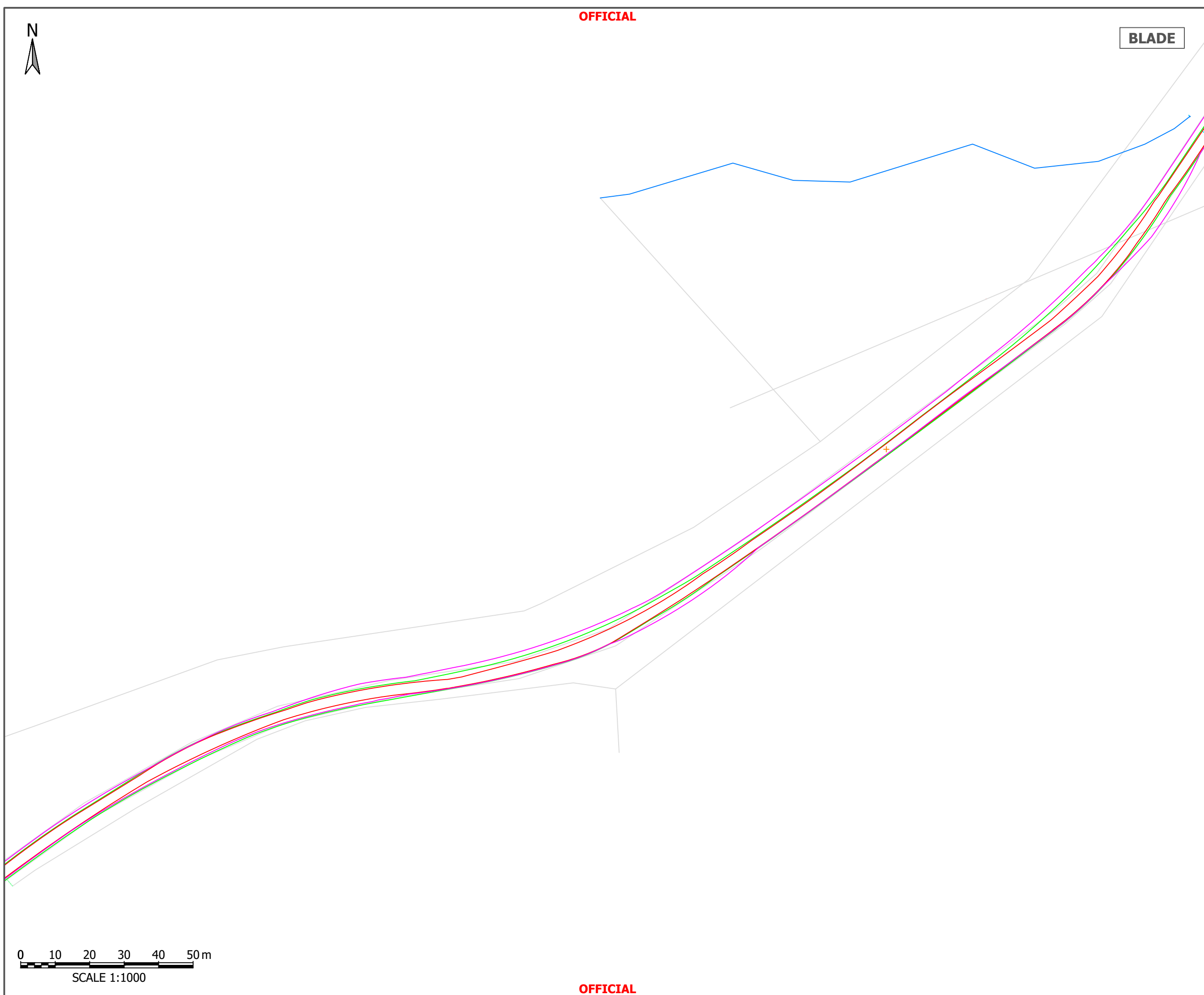
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BLADE

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

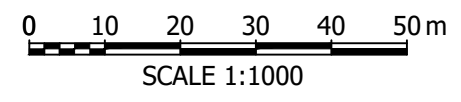
Sheet Title: SWEEP PATH ASSESSMENT

PC# 45 Location: A839 WEST OF BRAEMORE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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PRJ01	TTE	00	ZZ	DR	SPA	037	P01



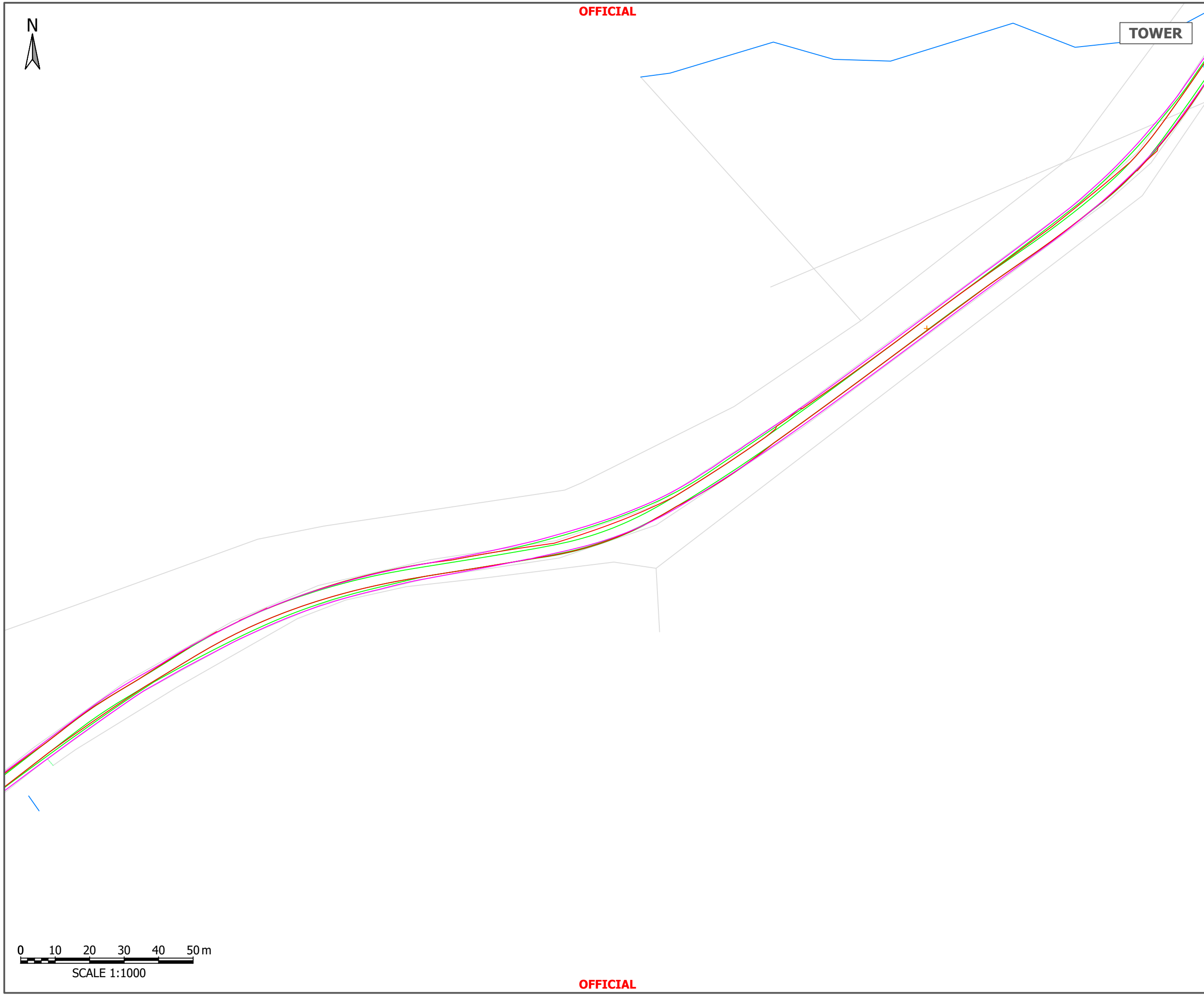
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TOWER

- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
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 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

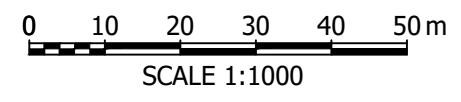
Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
45 A839 WEST OF BRAEMORE

Model Reference	DDP IDP Reference	LOD/LGI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	037-2	P01






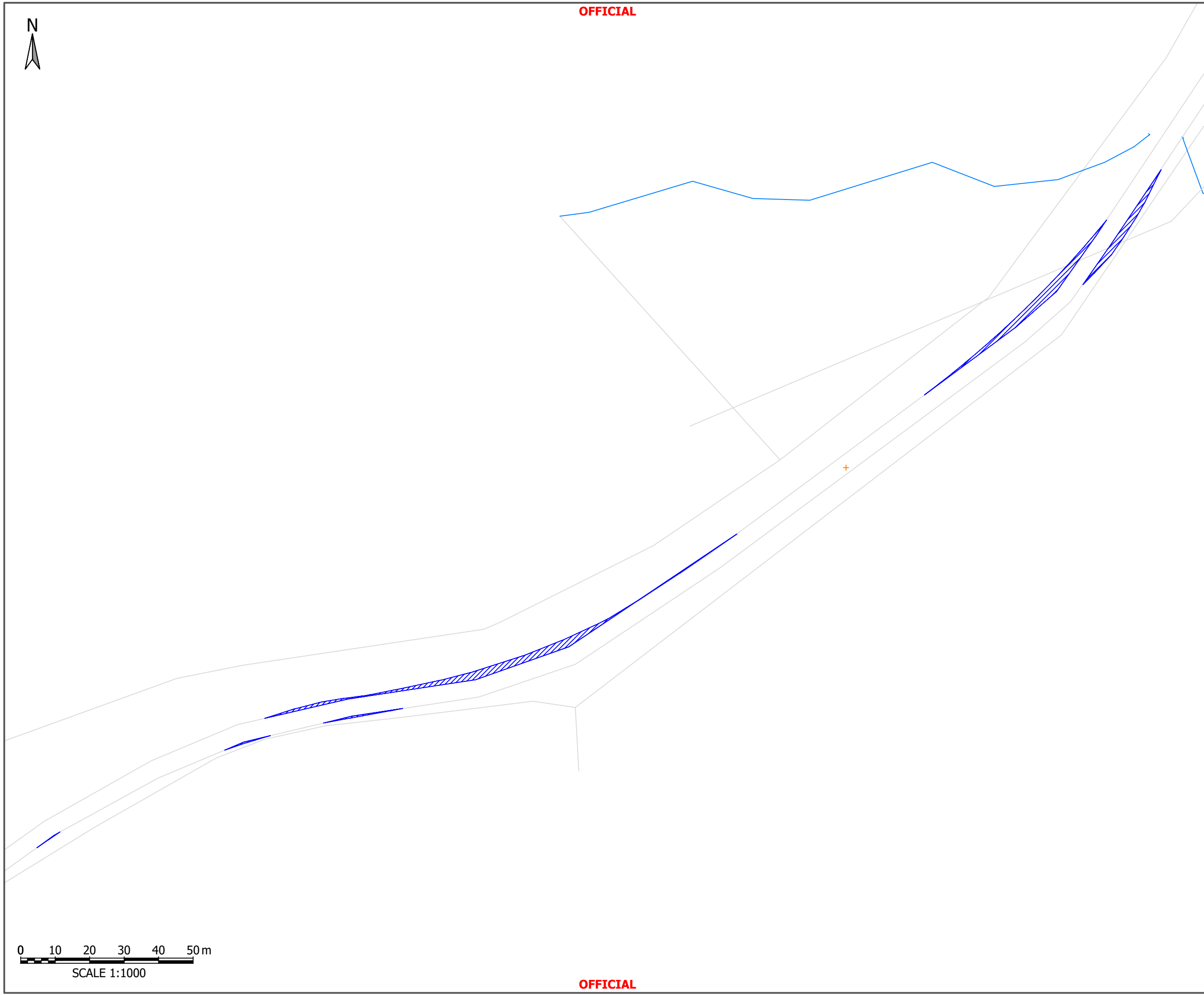
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Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

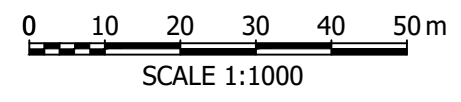
Sheet Title: REQUIRED REMEDIAL WORKS

PCN Location:
45 A839 WEST OF BRAEMORE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	037-3	P01



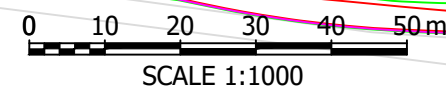
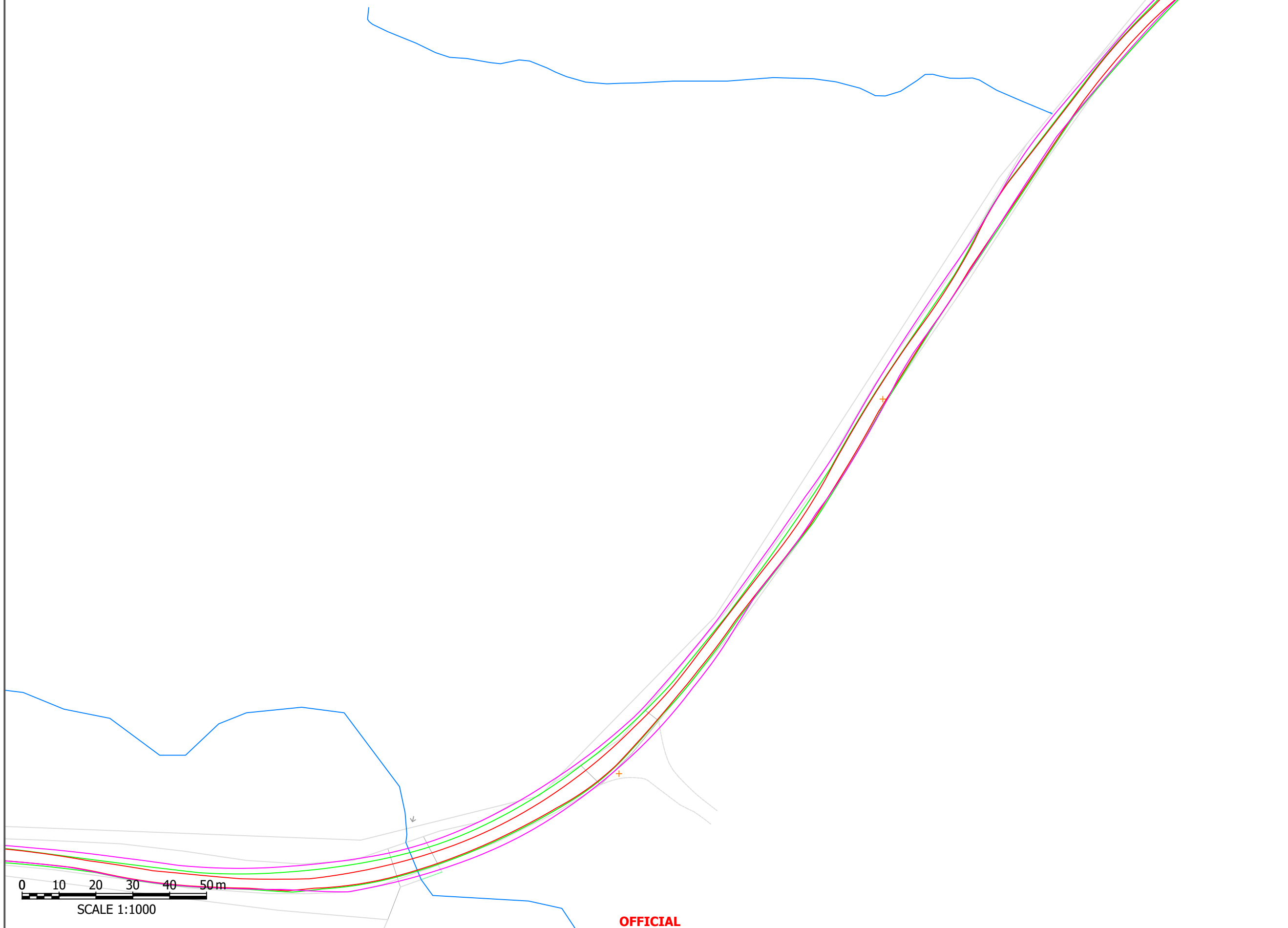
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BLADE

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
46 AB39 RIGHT BEND APPROACHING SITE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

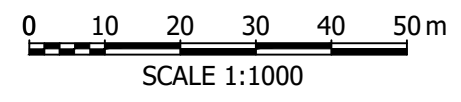
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	038	P01



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TOWER

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: SWEPT PATH ASSESSMENT

POI: 46 A839 RIGHT BEND APPROACHING SITE

Model Reference: N/A IDP Reference: LOD/LOT




TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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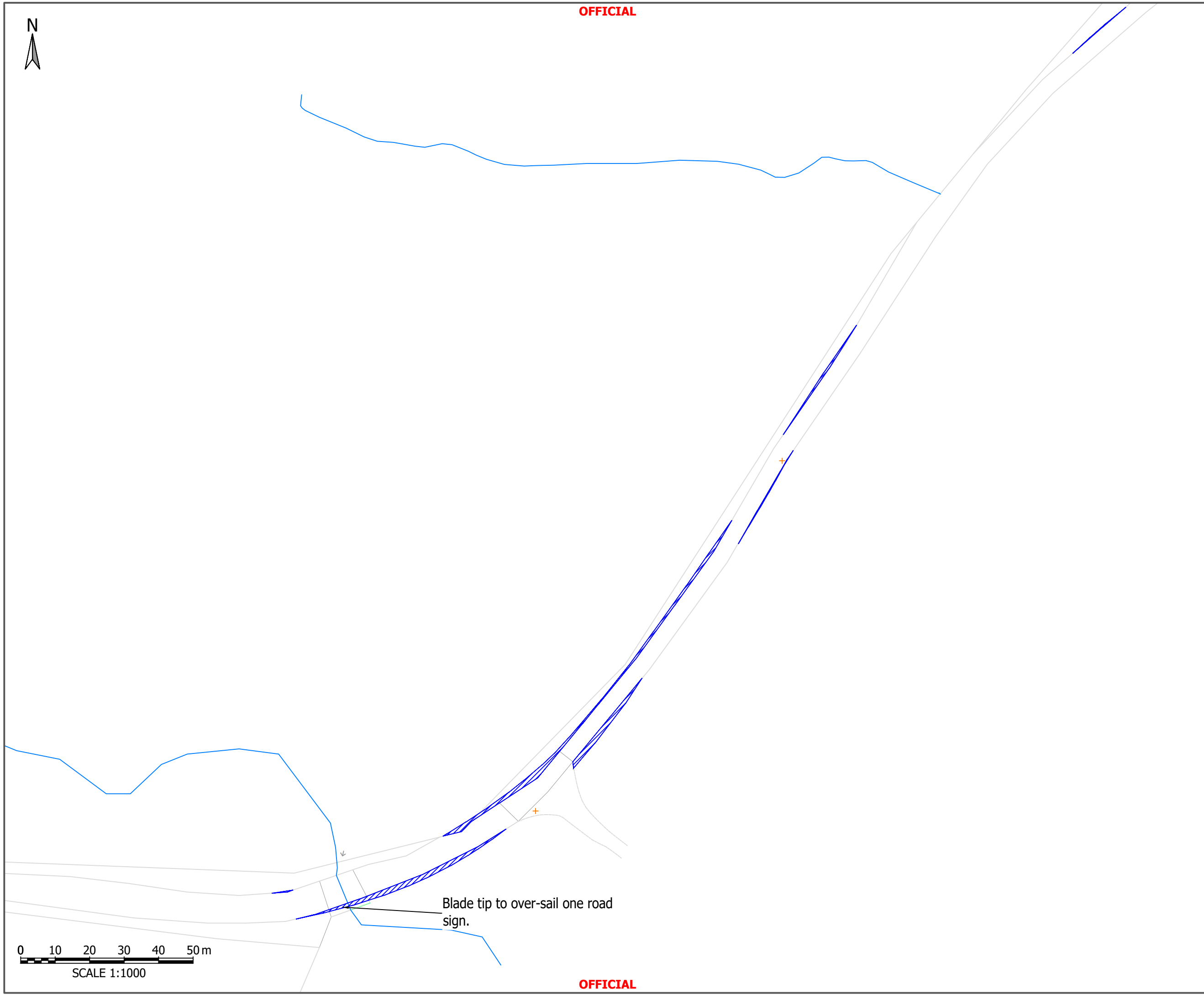
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PRJ01	TTE	00	ZZ	DR	SPA	038-2	P01

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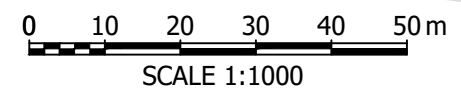


Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



Blade tip to over-sail one road sign.



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Client: SSE RENEWABLES

Project Name:
 ACHANY EXT WIND FARM

Components:
 VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PC1 Location:
46 A839 RIGHT BEND APPROACHING SITE

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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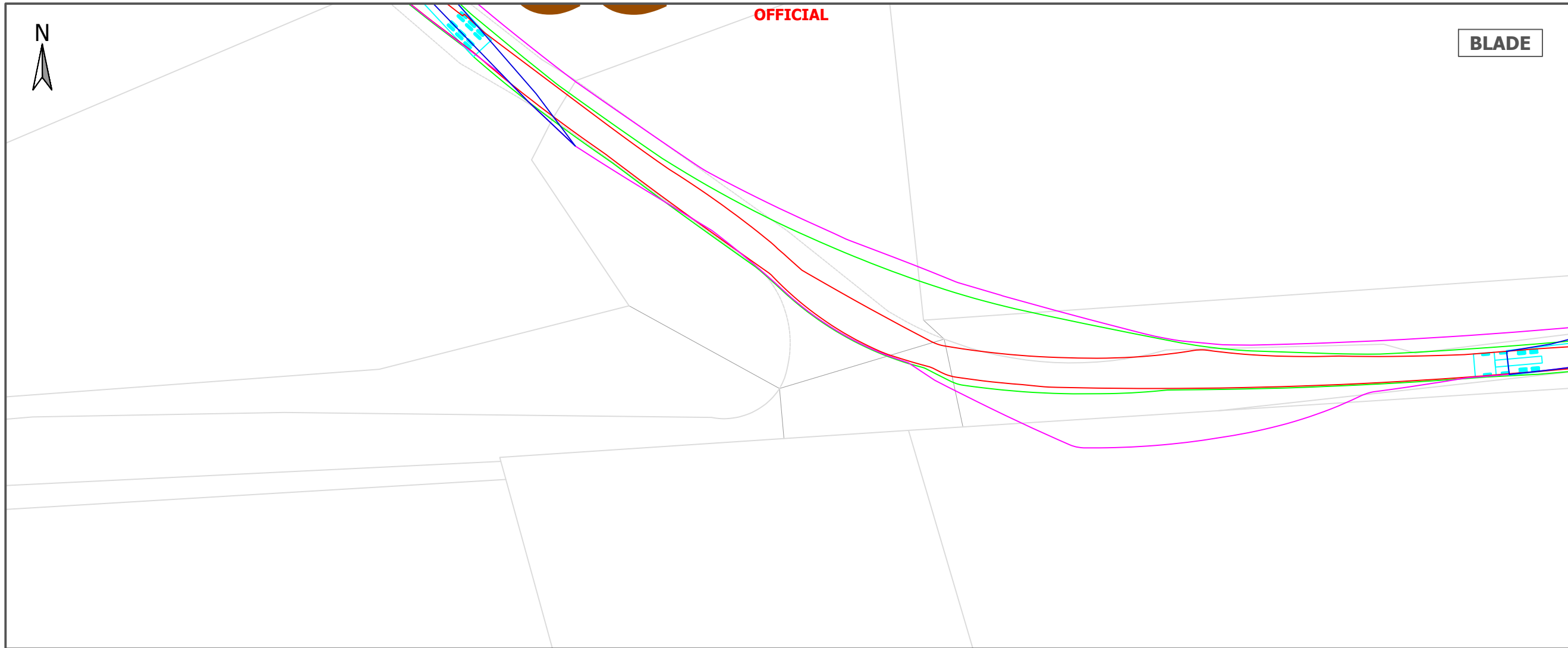


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BLADE

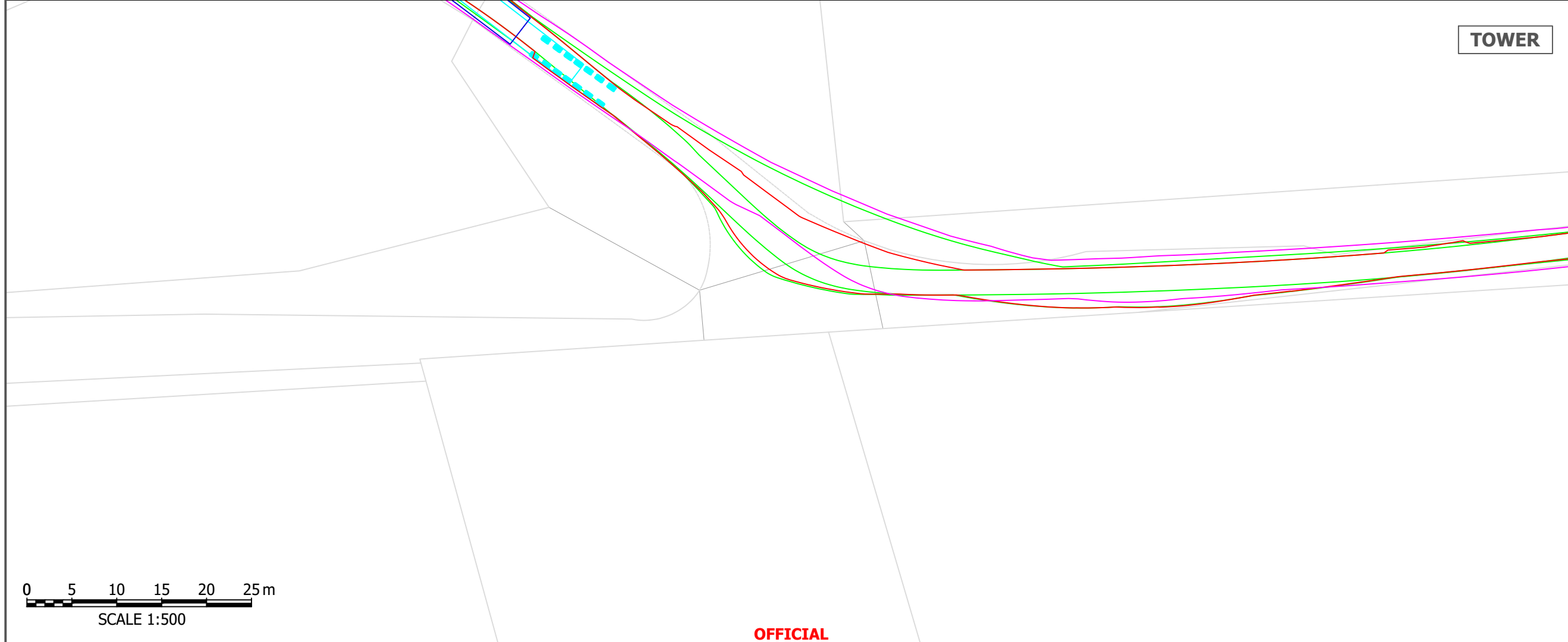
Key:

- LOAD SWEPT PATH
- VEHICLE SWEPT PATH
- WHEEL SWEPT PATH
- ORDNANCE SURVEY MAPPING



TOWER

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SSE RENEWABLES

Project Name:
ACHANY EXT WIND FARM

Components:
VESTAS V136 BLADE AND VESTAS V136 MID TOWER

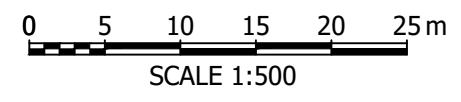
Sheet Title:
SWEPT PATH ASSESSMENT

POI Location:
47 A839 / SITE ACCESS

Model Reference: N/A
 DID IDP Reference: -
 LOD/LOI: -

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	039	P01






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CG

Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING

Loads to over-sail fences.

Blade tip to potentially over-sail fence.

3.39m

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Client: SSE RENEWABLES

Project Name: ACHANY EXT WIND FARM

Components: VESTAS V136 BLADE AND VESTAS V136 MID TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

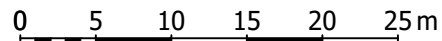
PC: 47 Location: A839 / SITE ACCESS

Model Reference	DDP IDP Reference	LOD/LOI
N/A	-	-

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Feb '21	MG	Feb '21	JD	Feb '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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