

Appendix 12.2 Route Survey Report

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Bhlaraidh Wind Farm Extension

Route Survey Report

SiemensGamesa SG 6.0-155



SSER

01-04-2021

**Prepared on Behalf of Tetra Tech Group Limited. Registered in
England number: 6595608**

Bhlaraidh Wind Farm Extension



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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 Bhlaraidh Wind Farm Extension (the site). This report reviews the constraints associated with the transportation of wind turbine components from Kyleakin slipway to the proposed site located on the A887 west of Invermoriston, Highlands.
- 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 proposed SiemensGamesa SG155 turbine components. 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:

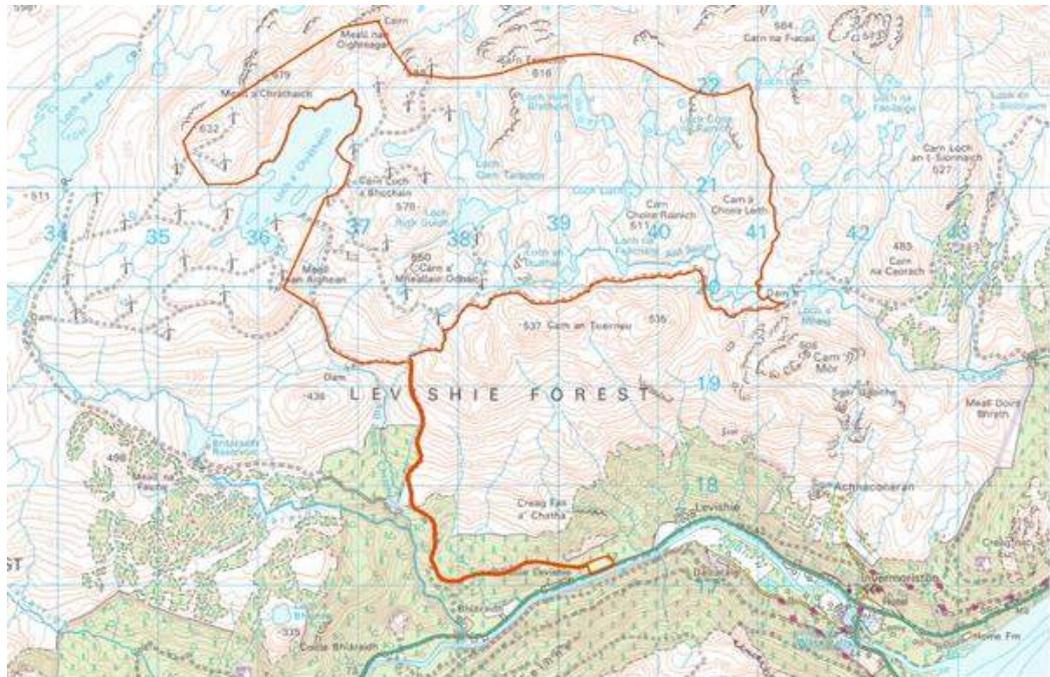
- **Chapter Two** describes the location of the proposed wind farm development and the proposed candidate turbine transport strategy;
- **Chapter Three** describes the PoE options considered for delivery of turbine components and their suitability in terms of storage;
- **Chapter Four** describes the route options reviewed on the site visit along with areas of potential significant constraints;
- **Chapter Five** details a Framework Traffic Management Plan; and
- **Chapter Six** provides a summary of the report and an outline of suggested further works, actions and recommendations for consideration.

2. PROPOSED SITE AND TRANSPORT STRATEGY

Site Description and Location

- 2.1 The proposed Bhlaraidh Ext Wind Farm is located to the West of Invermoriston, Highland. The site is being developed by SSER. The site location development boundary is illustrated below in Figure 2-1.

Figure 2-1: Site Location



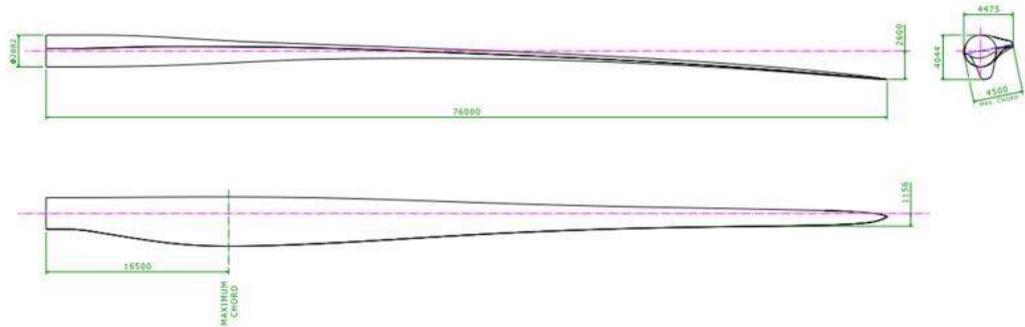
Candidate Turbine and Transport Equipment Options

- 2.2 SSER have indicated they are considering the SiemensGamesa SG 6.0-155 turbine as the potential component for the proposed site extension.
- 2.3 Tetra Tech has assumed the worst case loads of the proposed turbines to be the 76m blade carried in a Super Wing Carrier type trailer and the Mid Upper Tower (Section 3).

Blade Transport Equipment Delivery Option

- 2.4 After extensive discussions with hauliers, Tetra Tech has established that the SG 6.0-155 blade at 76m can be transported on the standard Super wing carrier typically used for loads of this type. The schematics for this blade are illustrated in Photo 2-1 below:

Photo 2-1: SiemensGamesa SG 6.0-155 Blade Details



2.5 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. Photo 2-1 illustrates similar components being delivered.

Photo 2-2: Indicative Blade in Super Wing Trailer



Tower Transport Equipment Delivery Options

2.6 The SG 6.0-155 turbine has 4 tower sections with the most onerous tower section for transport being the Upper Mid Tower section (section 3) if carried in standard clamp and clamp configuration. The tower dimensions are detailed in Table 2-2 below:

Table 2-2 - SG 6.0-155 Tower Dimensions

Tower hub height 102.5m IIA. Tapered tubular steel tower

	Section 1	Section 2	Section 3	Section 4
Ext Dia. upper flange (m)	4,443	4,427	3,557	3,574
Ext Dia. lower flange (m)	4,700	4,433	4,427	3,557
Section's height (m)	16,464	22,680	27,160	33,610
Total weight (T)	79,3	76,6	68,6	66,9
Volume (CBM)	364	446	533	426

2.7 Two potential transport delivery options have been identified for tower section 3 (mid) on account of pivotal horizontal constraints at the Drumnadrochit A82 / A831 left bend assuming transport of tower components from the Port of Inverness. Through discussions with UK hauliers the following transport configurations for tower section 3 (mid) are feasible options:

- Configuration A - Transport in Clamp trailer – (worst case component tower section 3)
- Configuration B - Transport in a Step Frame trailer – (worst case component tower section 4)

2.8 While tower section 3 (mid) represents the most onerous component when transported in the standard Clamp and Clamp trailer (Configuration A), if tower section 3 (mid) is transported in a Step Frame trailer to reduce horizontal mitigation, then tower section 4 (top) becomes the most onerous component due to its longer overall length. Table 2.3 illustrates indicative side profiles of each of the two potential tower transport configurations:

Table 2-3 - SG 6.0-155 Tower Configuration Options

SG155 TOWER SIDE PROFILES (INDICATIVE) - BHLARAI DH EXT

SG155 TOWER CONFIGURATION A	SG155 TOWER CONFIGURATION B
<p>SECTION 4 (TOP) - STEP FRAME</p> 	<p>SECTION 4 (TOP) - STEP FRAME</p> 
<p>SECTION 3 (MID 1) - CLAMP AND CLAMP</p> 	<p>SECTION 3 (MID 1) - STEP FRAME</p> 
<p>SECTION 2 (MID 2) - CLAMP AND CLAMP</p> 	<p>SECTION 2 (MID 2) - CLAMP AND CLAMP</p> 
<p>SECTION 1 (BASE) - CLAMP AND CLAMP</p> 	<p>SECTION 1 (BASE) - CLAMP AND CLAMP</p> 

- 2.9 Tower sections 1, 2 and 4 are expected to remain in the same standard transport delivery systems for both Configuration A and B. The specific type of transport system and load arrangement for each component should be confirmed with the chosen haulier once selected.
- 2.10 Each of the transport delivery options can provide a suitable delivery solution, however, each does have its specific mitigation requirements in terms of turning radii and 3rd party land take and in particular overall transport height. Transport of tower section 3 (mid) within a Step Frame trailer may have additional constraints with overhead utilities due to a transport height above 5.5m, all other tower loads are expected to remain within standard AIL running heights. Photo 2-3 illustrates similar components being delivered.

Photo 2-3: Indicative Tower Component Transport Configurations



- 2.11 At this point in time, no assessment of the erection crane has been undertaken.
- 2.12 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.
- 2.13 The internal design of the access track and supporting infrastructure is the responsibility of the client and any divergence from turbine manufacturer standards needs to be agreed in writing with SSER prior to deliveries occurring.
- 2.14 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.
- 2.15 The Tower, Hub and Nacelle components can be delivered on a variety of transport platforms all of which feature independent rear-wheel steering.

3. PORT ACCESS AND STORAGE OPTIONS

3.1 This section reviews the potential Port of Entry (PoE) facilities available for use for deliveries to site. Due to access constraints the blade and tower components are proposed to access the site from two different PoE; blade components from Kyleakin Slipway and tower components from the Port of Inverness. Depending on the final choice of candidate turbine, Kyle of Lochalsh Harbour may also be considered as a PoE for blade components.

Kyleakin Slipway

3.2 Due to the known constraints in exiting Kyle of Lochalsh Harbour with components of this maximum length, the use of Kyleakin slipway has been explored with Kyle Port Authority as the potential PoE.

3.3 The Kyleakin slipway option is aimed at the elimination of a Blade Lifter operation by transfer of blade components from Ship at Anchor directly onto trailers secured on a transport Ro-Ro Barge, then off loaded at Kyleakin and road hauled onto storage using standard Super-wing transport.

3.4 The Kyle Port Authority is supportive of a Barge Ro-Ro (roll-on roll-off barge type) option, noting this can eliminate the need to operate the Blade Lifter associated with Kyle of Lochalsh West Quay. There are weight restrictions on this slipway which need to be assessed and taken into consideration however, only blade components are being considered for this option and they will have a low axle loading weight.

3.5 The objective would be to use a geared vessel and Ro-Ro Barge of a size that can accommodate the larger blade sizes loaded direct onto a Super-wing or a Clamp & Dolly, with the on-road transport option being blade size dependent.

3.6 There are two slipways at Kyleakin, the target slip is the main one and runs into deeper water, this can accommodate the Ro-Ro Barge with bespoke link span (see photo 3-3 and 3-4).

3.7 This slipway is 15m wide and would comfortably accommodate the transport offload.

3.8 Should this option be progressed it is strongly recommended that a Marine survey of the slipway be carried out in conjunction with a structural survey of the slip-way jetty.

Photo 3-4: Kyleakin Slipways



Photo 3-5: Main slipway, Kyleakin



Geared Vessel and Barge Shipping

- 3.9 A geared vessel has its own crane systems, the example given here is loaded blade components ready for discharge, the onboard cranes would carry out the lift operation at anchor and transfer components onto trucks already positioned alongside on a Ro-Ro Barge, cranes would discharge to starboard side (See photo 3-5).

Photo 3-6: Indicative Geared Vessel



3.10 Photo 3-6 below provides an indicative illustration of a Ro-Ro Barge which would be the preferred solution for off-loading at Kyleakin slipway and a range of similar barge solutions can be sourced by the associated Turbine Suppliers Shipping Group. These types of barges can also be self-propelled and have large links spans that can accommodate tidal ranges at the slipway, they can also overcome any vertical alignment concerns when running off the barge. The Ro-Ro Barge solution would also be suitable for blades above circa 75m that require a "Dolly Frame" transport configuration.

Photo 3-7: Indicative Ro-Ro Barge



Kyleakin Slipway Storage – Broadford Airport

- 3.11 Due to the lack of storage at Kyleakin it is recommended any components delivered through this access route continue to use The Highland Council owned Broadford Airport as a storage location.
- 3.12 As with previous projects utilising Broadford Airport on the Isle of Skye for storage, use of the facilities for storage would again have to be agreed to facilitate the use of Kyleakin slipway as the chosen PoE for the proposed turbine components.

Port of Inverness

- 3.13 The Port of Inverness operates under the control of Inverness Harbour Trust, the main quayside allocated for turbine operations is 150m in length with a depth of 5m at low tide.
- 3.14 The Port of Inverness has been used for the discharge, storage and delivery of wind turbines to a range of wind farms across the Highlands and Grampian regions of Scotland, extensive storage areas are available covering 2 x areas at 15,000sqm and 16,000sqm, with a further 15,000sqm available on compacted grounding. See Photo 3-8.

Photo 3-8: Port of Inverness



- 3.15 Inverness was successfully used for the transport of the Towers, Hubs and Nacelles on for the existing Bhlaraidh Wind Farm project. At this time pending further area and route review, Tetra Tech has identified Inverness as the primary port of entry for non-blade components.

Kyle of Lochalsh Harbour

- 3.16 While Kyleakin Slipway has been assessed within this report as the potential POE for Blade components a final decision has not been taken and will be dependent on the final choice of turbine. Kyle of Lochalsh Harbour has previously been utilised for turbine blade delivery for a number of wind farm projects including Bhlaraidh Wind Farm. The port presents restrictions for larger blade components due to restrictions associated with the available quay length and requirement for the use of specialist Blade Lifter transport to exit the Harbour.
- 3.17 It has been established through discussions with the Harbour Master that the Kyle of Lochalsh West Quay would be the expected delivery locations for blade components (See photo 3-9).

Photo 3-9: Kyle of Lochalsh West Quay



- 3.18 The West Quay is 120m in length, with a 5m draught and it can accommodate shipping up-to 95m LOA (Length Over All). The width of the quay is due to be extended by a further 3m to a width of 30m by the removal and covering of the old timber rail line and temporary storage area, as seen on the left side of this picture. This will give an increase of the blade change operational area (See photo 3-10).

Photo 3-10: Kyle of Lochalsh West Quay



- 3.19 The overall West Quay area can accommodate a 2 x crane lift operation with a circa 15 tons per crane lift and blade transfer on to a Blade Lifter transport system for blade lengths over 58.5m.
- 3.20 The maximum available crane lift capacity for 2 x cranes is currently under review by Highland Council with an aim of increasing the crane outrigger pads which would enable an increase in crane capacity to 20tons per crane lift. This increase in capacity would facilitate lift operations for larger blades with a blade at circa 80m length weighing in the region of 35tons including the transport frames.
- 3.21 The limitations of the use of the West quay with a ship alongside and the associated transport option are:
- Standard Super Wing trailer direct loading from ship - Max Blade 58.5m; and
 - Ship alongside and with Blade Lifter operation - Max Blade 68m
- 3.22 The shipping solution required for the largest Blades identified within the candidate turbine list exceeds the LOA (Length Over All) above the current limitations of the West Quay and alternative solutions are required.
- 3.23 The most likely alternative solution for consideration would be to keep the ship at anchor in deeper water, operating a transfer on to a Barge option that can operate alongside the West Quay, this raises the possibility up to a circa 80m blade with a shore side Blade Lifter operation.

4. ROUTE REVIEW

Route Overview

- 4.1 A route review has been undertaken by video survey from both Kyleakin Slipway and the Port of Inverness through to the proposed site 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.
- 4.2 This report is informed by Tetra Tech's experience and knowledge of AIL transport movements in this area gained from consulting on recently successful AIL deliveries in the area such as the original Bhlaraidh Wind farm and prior site visits in the area.
- 4.3 While the final choice of POE for blade transport is still subject to final review, Kyleakin Slipway has been included with this assessment on the basis that this is likely to be the preferred option for the maximum blade lengths under consideration.
- 4.4 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.
- 4.5 Plans illustrating the location of the constraints and a detailed list of POIs are provided in Appendix A.

Route Description

- 4.6 It is proposed that all loads will follow the routes described below and as shown in Figure 4-1.

Route Description Figure 4-1: Proposed Access Routes



Kyleakin Slipway – Blade Components

4.7 The route from Kyleakin slipway to the Site Access (blades only) is as follows:

- Loads would enter Kyleakin via Barge Ro-Ro transport onto the slipway and progress west on Loch Dunvegan Road,
- Loads would progress west at Kyleakin Roundabout taking the second exit and continue on the A87 before turning right into the proposed storage area at the Skye Aerodrome (Broadford Airport),
- Loads would exit the Skye Aerodrome and turn left onto the A87, and
- Continue on the A87 until the A877 / A87 Junction, continue on A877 east bound towards the Site Access.

Port of Inverness – Tower Components

4.8 The route from the Port of Inverness to Site Access (all non-blade loads) is as follows:

- Loads would exit the port turning left onto Stadium Road and continuing towards the A9 and A82 roundabout,
- Loads would continue on the A82 south towards the Telford Roundabout and turn right onto the A862, Telford St,
- Loads would proceed west before turning left onto Scourgie Road,
- Continue southwest on Scourgie Road before turning right onto King Brude Road,
- Continue southbound on King Brude Road, to the General Booth Road / A82 Roundabout (under construction at time of site visit),
- Continue southbound on the A82 towards Drumnadrochit,
- Continue on A82 southbound towards Invermoriston, and
- Exit the A82 onto the A877 westbound towards the Site Access.

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

Network Constraints

- 4.10 This section outlines the potential constraint locations to the movement of the proposed turbine components and Table 4-1 details the potential constraint point locations on the route from the expected POE: The Kyleakin Slipway and the Port of Inverness, to the proposed site access.
- 4.11 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 4-2.

Table 4-1: Route Constraint Points

POI	Key Constraint	Details
1	<p>Kyleakin Slipway</p> 	<p>Loads will approach using the main slipway and proceed west on Loch Dunvegan Road.</p> <p>Loads will over-sail the fence and sea wall to the north of the slipway and to the south one lighting column and two sections of guard-rail to be socketed.</p> <p>Loads will over-run and over-sail the south of Loch Dunvegan Road where a load bearing surface should be laid in the over-run area to the left, this requires 11 x post bollards, 3 x benches, 1 x planter and 1 x art installation to be removed. Loads will also over-sail the northern footways where no physical mitigation is expected.</p> <p>A TTRO is required throughout this section for parking control during deliveries.</p> <p>Discussions should be held with the Port Authority to ensure that the required land is available, and a structural assessment of the slipway should be made at the earliest opportunity.</p> <p>Swept path drawings SPA001 are included in Appendix B.</p>

POI	Key Constraint	Details
<p>2</p>	<p>Kyleakin, Loch Dunvegen Road, Right Bend</p> 	<p>A clear run through this area of the route is achievable with limited over-sail on inside and outside of the bend, no physical mitigation is expected.</p> <p>Parking to be prohibited.</p> <p>Swept path drawings SPA002 are included in Appendix B.</p>
<p>3</p>	<p>Kyleakin, Caol Acain Road, Left Bend</p> 	<p>Blades will over-sail both sides of the carriageway. Loads will utilise a small section of over-run and over-sail outside of the bend to reduce physical mitigation and proximity to third party land on the inside, a load bearing surface is to be laid, the verge confirmed suitable for proposed loads.</p> <p>Trees and vegetation to be cleared.</p> <p>Inside of the bend one lighting column is to be set back or removed.</p> <p>Land search recommended.</p> <p>Swept path drawings SPA003 are included in Appendix B.</p>

POI	Key Constraint	Details
4	<p>Kyleakin Roundabout / A87</p> 	<p>Loads will move westbound to the storage area taking the 2nd roundabout exit and returning eastbound loads will take the 1st exit, both movements are with the flow of traffic.</p> <p>Combined mitigation for these two manoeuvres is as follows: Load bearing surfaces will be required in the northeast arm of the junction, on 1 x splitter island and 2 x areas of the central roundabout.</p> <p>4 x bollards, 4 x combined lit chevron signs and 1 x road sign to be removed. 1 x lighting column and 2 x road signs to be set-back and vegetation to be trimmed back throughout.</p> <p>Utilities within the northeast and southern verges should be protected throughout both westbound and eastbound movements.</p> <p>Limits of adoption in the western verge to be confirmed.</p> <p>Swept path drawings SPA004 are included in Appendix B.</p>

POI	Key Constraint	Details
5	<p>Skye Aerodrome (Broadford Airfield) Storage Area</p> 	<p>To reduce the number of 3rd party land areas required for access and egress, particularly the south side of the A87 carriage way, the access manoeuvre to the storage site is a run past entrance in forward gear with a "worst case" reverse manoeuvre entry. This option may require additional mitigation but reduce required land, value engineering of 3rd party land options is recommended.</p> <p>Load bearing surfaces are required in the western verge where the land should be re-profiled to carriageway level. 1 x OHP to be removed, 3 x road signs to be removed and trees and vegetation to be cleared.</p> <p>Third party land required both east and west of the access junction.</p> <p>Swept path drawings SPA005 are included in Appendix B.</p>
6	<p>A87 Skye Bridge</p> 	<p>A test-run is recommended at this point to rule out the possibility of potential grounding of blade loads.</p> <p>The possibility of crosswinds inhibiting deliveries should be considered in advance.</p>

POI	Key Constraint	Details
7	A87 Kyle of Lochalsh 	<p>Loads will over-sail both sides of the carriageway.</p> <p>No physical mitigation is expected.</p> <p>Vegetation to be trimmed back from carriageway.</p> <p>Swept path assessment drawing SPA006 is included in Appendix B.</p>
8	A87 East of Kyle of Lochalsh  	<p>Vegetation and tree canopy to be trimmed back along the length of the route.</p> <p>Due to the size of the components loads will utilise the full width of the carriageway throughout the route and rear wheel steer will be required throughout to keep loads within the carriageway limits.</p> <p>To accommodate driver variation, it is recommended that a 1m safety envelope is cleared within the verge and maintained until deliveries are complete. Vegetation to be trimmed back.</p>

POI	Key Constraint	Details
9	A87 Approaching Balmacara 	<p>Loads will occupy the entire carriageway through the bend.</p> <p>Loads will over-sail the northern verge where the tree canopy should be trimmed back.</p> <p>Swept path drawings SPA007 are included in Appendix B.</p>
10	A87 Series of Bends South of Dornie 	<p>Loads will over-sail both sides of the verge throughout.</p> <p>Tree canopy and vegetation and hedgerows to be trimmed back throughout.</p> <p>Loads may over-sail the southern guard-rail.</p> <p>A test-run is recommended.</p> <p>Swept path assessment drawing SPA008 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>11</p>	<p>A87 Series of Bends South of Dornie 2</p> 	<p>Loads will over-sail both sides of the carriageway.</p> <p>Dependent upon seasonal growth vegetation to be trimmed back.</p> <p>One road sign to be set-back or relocated.</p> <p>Swept path drawings SPA009 are included in Appendix B.</p>
<p>12</p>	<p>A87 Series of Bends South of Dornie 3</p>  	<p>Loads will over-sail both sides of the verge throughout. Vegetation to be trimmed back.</p> <p>Due to the extent of over-sail it is recommended the limits of adoption throughout are confirmed.</p> <p>Third party land potentially required.</p> <p>Swept path drawings SPA010 are included in Appendix B.</p>

POI	Key Constraint	Details
13	A87 Right Bend West of Keppoch 	<p>No physical mitigation is expected at this bend however loads will require the full width of the carriageway and over-sail north to the carriageway edge.</p> <p>It is noted that the OS mapping does not reflect the carriageway alignment observed on site-visit. An indicative road edge is provided and should be confirmed through test-run.</p> <p>Swept path drawings SPA011 are included in Appendix B.</p>
14	A87 Left Bend South of Keppoch 	<p>Loads will over-sail both sides of the carriageway.</p> <p>Vegetation to be trimmed back throughout. One road sign to be socketed for removal during deliveries.</p> <p>Due to the extent of over-sail it is recommended the limits of adoption throughout are confirmed.</p> <p>Third party land potentially required.</p> <p>It is noted that the OS mapping does not reflect the carriageway alignment observed on site-visit. An indicative road edge is provided and should be confirmed through test-run.</p> <p>Swept path drawings SPA012 are included in Appendix B.</p>

POI	Key Constraint	Details
15	A87 Series of Bends Inverinate 	<p>Tree canopy and vegetation to be trimmed back.</p> <p>Loads will utilise the full width of the carriageway throughout the section and rear wheel steer will be required throughout to keep loads within the carriageway limits.</p> <p>To accommodate driver variation, it is recommended that a 1m safety envelope is cleared within the verge and maintained until deliveries are complete. Vegetation to be trimmed back.</p>

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POI	Key Constraint	Details
<p>16</p>	<p>A87 Double Bend West of Morvich</p> 	<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 beyond trimming back vegetation.</p> <p>Road deterioration was observed at this location and suitable road quality should be confirmed before deliveries begin.</p> <p>Swept path drawings SPA013 are included in Appendix B.</p>

POI	Key Constraint	Details
<p>17</p>	<p>A87 Left Bend Invershiel</p> 	<p>Loads will over-sail both sides of the carriageway.</p> <p>Outside of the bend three chevron signs to be confirmed suitable for blade-tip over-sail, and trees are to be confirmed outwith over-sail area. Inside of the bend one road sign to be removed and embankment reprofiling may be required.</p> <p>Tree canopy and vegetation to be trimmed back.</p> <p>Limits of adoption to be confirmed. Third party land potentially required.</p> <p>A test-run or topographical survey is recommended at this location.</p> <p>Swept path assessment drawing SPA014 is included in Appendix B.</p>
<p>18</p>	<p>A87 Right Bend Invershiel</p> 	<p>Loads will over-sail the inside of the bend where vegetation should be trimmed back.</p> <p>Swept path assessment drawing SPA015 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>19</p>	<p>A87 Series of Bends South of Invershiel 1 - 3</p> 	<p>Loads will over-sail north of the carriageway to maintain safe clearance from the southern rockface.</p> <p>Blade tip will over-sail the verge and guard-rail and potentially two chevron signs.</p> <p>Vegetation and tree canopy to be trimmed back and limits of adoption to be confirmed throughout. Third party land potentially required.</p> <p>Swept path assessment drawing SPA016 is included in Appendix B.</p>

POI	Key Constraint	Details
20	<p>A87 Series of Bends – Achnagart Farm 1 - 2</p> 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>Within the southern verge the blade tip will over-sail bollards and potentially two chevron signs.</p> <p>Swept path assessment drawing SPA017 is included in Appendix B.</p>

POI	Key Constraint	Details
21	A87 Series of Bends Glenshiel 1 - 2 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>Bollards within the northern verge to be over-sailed by blade-tip.</p> <p>Swept path assessment drawing SPA018 is included in Appendix B.</p>

POI	Key Constraint	Details
22	<p>A87 Right Bend Glenshiel</p> 	<p>No physical mitigation is expected.</p> <p>Swept path assessment drawing SPA019 is included in Appendix B.</p>
23	<p>A87 Series of Bends Approaching Glenshiel Forest 1 - 2</p> 	<p>Loads will over-sail both sides of the carriageway through these sections.</p> <p>Through the first section a test-run is recommended to ensure safe clearances can be maintained from the stone wall inside the bend.</p> <p>Through the second section the blade-tip will over-sail bollards and two chevron signs in the northern verge. Loads will over-sail the safety barrier to the south where vertical clearances should be confirmed during the test-run. The blade tip will also over-sail one snow pole, seven bollards and one chevron sign.</p> <p>Trees and vegetation to be trimmed back throughout.</p> <p>Due to the required over-sail throughout the limits of adoption should be confirmed. Third party land potentially required.</p> <p>Swept path assessment drawing SPA020-21 is included in Appendix B.</p>

POI	Key Constraint	Details
24	<p>A87 Series of Bends - Glenshiel Forest 1 - 2</p> 	<p>Loads will over-sail both sides of the carriageway through these sections.</p> <p>The blade-tip will over-sail bollards and one chevron sign through the first section.</p> <p>Trees and vegetation to be trimmed back throughout.</p> <p>Due to the required over-sail throughout the limits of adoption should be confirmed. Third party land potentially required.</p> <p>Swept path assessment drawing SPA022 is included in Appendix B.</p>

POI	Key Constraint	Details
25	<p>A87 Series of Bends - Approaching Meall a' Charra 1 - 2</p> 	<p>Loads will over-sail both sides of the carriageway through these sections.</p> <p>The blade-tip will over-sail bollards and one chevron sign through in each section.</p> <p>Due to the required over-sail throughout the limits of adoption should be confirmed. Third party land potentially required.</p> <p>Swept path assessment drawing SPA023 is included in Appendix B.</p>

POI	Key Constraint	Details
26	<p>A87 Series of Bends - Meall a' Charra 1 - 3</p> 	<p>Loads will over-sail both sides of the carriageway through these sections.</p> <p>One snow pole to be removed in the first section.</p> <p>The blade-tip will over-sail bollards and one chevron sign in the second section, potentially three snow poles to be removed.</p> <p>Trees and vegetation to be trimmed back throughout.</p> <p>Exiting the second section the limits of adoption should be confirmed. Third party land potentially required</p> <p>Swept path assessment drawing SPA024 is included in Appendix B.</p>

POI	Key Constraint	Details
27	A87 Series of Bends – Approaching The Cluanie Inn 1 - 2 	<p>Loads will over-sail the northern verge where vegetation is to be trimmed back.</p> <p>Swept path assessment drawing SPA025 is included in Appendix B.</p>
28	A87 Series of Bends - The Cluanie Inn  	<p>Loads will over-sail the north side of the carriageway where the tree canopy should be trimmed back and the blade-tip will over-sail five bollards.</p> <p>Loads will over-sail the southern verge where bollards and street furniture should be set back or removed to improve clearances.</p> <p>Swept path assessment drawing SPA026 is included in Appendix B.</p>

Bhlaraidh Wind Farm Extension

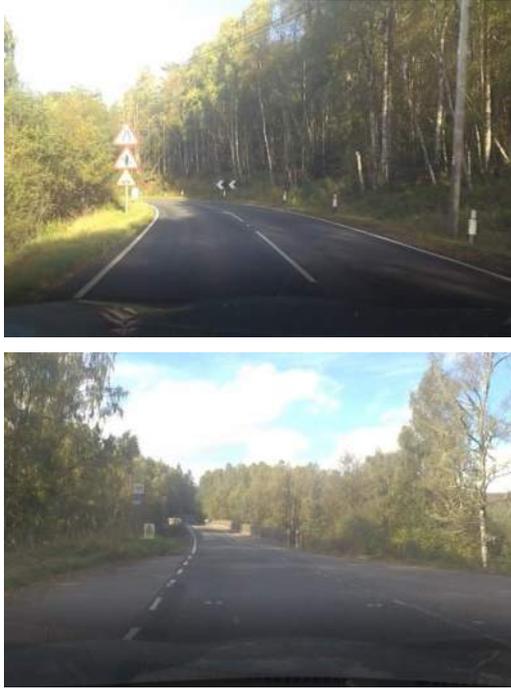


POI	Key Constraint	Details
29	A87 Left Bend After Cluanie Inn 	<p>Loads will over-sail the inside of the bend.</p> <p>Due to the required over-sail the limits of adoption should be confirmed. Third party land potentially required.</p> <p>Swept path assessment drawing SPA027 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>30</p>	<p>A87 Series of Bends Appr. Strath Cluanie 1 – 2</p> 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>Section 1: Guard-rail, one chevron sign and bollards to be over-sailed.</p> <p>Section 2: Blade tip to over-sail guard rail and two chevron signs.</p> <p>Due to the required over-sail the limits of adoption should be confirmed throughout. Third party land potentially required.</p> <p>Swept path assessment drawing SPA028 is included in Appendix B.</p>

POI	Key Constraint	Details
31	<p>A87 Series of Bends – Strath Cluanie</p> 	<p>Loads will over-sail both sides of the carriageway. Vegetation to be trimmed back, tree canopy to be trimmed.</p> <p>The blade-tip will over-sail several bollards in the northern verge through section 2.</p> <p>Swept path assessment drawing SPA029 is included in Appendix B.</p>
32	<p>A887 Right Bend and Bridge Appr. Torgoyle</p> 	<p>Loads will over-sail the northern verge through the narrowed section where the tree canopy is to be trimmed back.</p> <p>It is noted that the OS mapping does not reflect the carriageway alignment observed on site-visit. An indicative road edge is provided and should be confirmed through test-run.</p> <p>Swept path assessment drawing SPA030 is included in Appendix B.</p>

POI	Key Constraint	Details
33	<p>A887 Double Bend Torgoyle</p> 	<p>Loads will over-sail all sides of the carriageway.</p> <p>Tree canopy to be trimmed back and one telegraph pole to be confirmed outwith over-sail area during test-run.</p> <p>Due to the required over-sail the limits of adoption should be confirmed throughout. Third party land potentially required.</p> <p>Swept path assessment drawing SPA031 is included in Appendix B.</p>

POI	Key Constraint	Details
34	<p>Torgoyle Bridge A877</p> 	<p>Left turn approach towards Torgoyle bridge.</p> <p>Loads will over-sail both sides of the carriageway throughout this location and over-run the inside verge. On approach a load bearing surface should be laid on the inside, land to be re-profiled to carriageway level, 3 x road signs to be socketed for removal, 2 x telegraph poles to be removed, limits of adoption to be confirmed, vegetation and trees to be cleared.</p> <p>On outside of turn, chevron sign heights to be confirmed suitable for blade tip over-sail, bollards to be over-sailed, clearances to telegraph poles to be maintained and confirmed through test-run, tree canopy to be trimmed.</p> <p>On bridge entry, the trailer suspension should be raised to allow load clearance over bridge parapet, the blade web will over-sail on the left of the bridge and over the fence which should be set-back or confirmed suitable for proposed load over-sail.</p> <p>A vertical alignment assessment is recommended across the bridge. Test-run recommended.</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>Third party land required.</p> <p>Swept path assessment drawing SPA032 is included in Appendix B.</p>

POI	Key Constraint	Details
35	A887 Right Bend After Torgoyle Bridge 	<p>Loads will over-sail both sides of the verge. Tree canopy and vegetation to be trimmed back throughout.</p> <p>One road sign to be removed from the western verge and two chevron signs and bollards to be over-sailed by blade-tip.</p> <p>Limits of adoption to be confirmed. Third party land potentially required.</p> <p>A test-run or topographical survey is strongly recommended to establish over-sail proximity the eastern fence line and to the embankment and OH utilities on the western side which are not noted on OS mapping.</p> <p>Swept path assessment drawing SPA033 is included in Appendix B.</p>
36	A887 Series of Bends North of Torgoyle (Appr. Dundreggan Croft) 	<p>Loads will over-sail the northern and southern verges.</p> <p>One telegraph pole to be confirmed outwith over-sail area. Tree canopy and vegetation to be trimmed back throughout.</p> <p>Limits of adoption to be confirmed. Third party land potentially required.</p> <p>Swept path assessment drawing SPA034 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>37</p>	<p>A887 Dundreggan Power Station</p> 	<p>Loads will over-sail the northern and southern verges.</p> <p>Loads will over-sail the inside guard-rail and outside the blade tip will over-sail the guard-rail, two chevron signs and three bollards.</p> <p>Vegetation to be trimmed back.</p> <p>Limits of adoption to be confirmed.</p> <p>Third party land potentially required.</p> <p>Swept path assessment drawing SPA035 is included in Appendix B.</p>

POI	Key Constraint	Details
38	Inverness Port Exit  	<p>Except where specified this tower route assessment is based only upon the worst case tower component in its standard transport configuration: Mid Tower in a clamp and clamp frame.</p> <p>Loads will exit the Port of Inverness and left turn on Stadium Road towards A9/A82 roundabout.</p> <p>Escorts will need to provide warning to oncoming traffic along the length of the route.</p> <p>Loads will over-run and over-sail the southern and western footways and over-sail the inside footway. Load bearing surface to be laid in over-run areas.</p> <p>Swept path assessment drawing SPA036 is included in Appendix B.</p>
39	A82 Longman Roundabout 	<p>Loads will take the 2nd exit utilising the bus lane.</p> <p>Loads will over-sail the splitter island where eight bollards should be removed and the south eastern edge of the central island.</p> <p>Swept path assessment drawing SPA037 is included in Appendix B.</p>

POI	Key Constraint	Details
40	A82 Harbour Road Roundabout 	<p>Loads will take the 2nd exit.</p> <p>Loads will over-sail the south eastern footway and the central island where one sign should be removed.</p> <p>Swept path assessment drawing SPA038 is included in Appendix B.</p>
41	A82 Rose Street Roundabout 	<p>Loads will take the 2nd exit.</p> <p>Loads will over-sail the central island where two signs and one bollard should be removed.</p> <p>Swept path assessment drawing SPA039 is included in Appendix B.</p>
42	A82 Shore Street Roundabout 	<p>Loads will take the 2nd exit.</p> <p>Loads will over-sail the south eastern footway. No physical mitigation is expected.</p> <p>Swept path assessment drawing SPA040 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>43</p>	<p>A82 / Telford Street Roundabout</p> 	<p>Loads will take the 3rd exit.</p> <p>Mid Tower – Clamp and Clamp (most onerous if in standard transport configuration):</p> <p>Loads will over-sail the eastern verge on approach and over-run and over-sail both the central island and the western splitter island.</p> <p>Load bearing surfaces to be laid in over-run areas, three signs one bollard and one lit road sign to be removed.</p> <p>Top Tower – Step Frame (most onerous if Mid Tower is not in standard transport configuration):</p> <p>Loads will over-run and over-sail both the central island and the western splitter island.</p> <p>Load bearing surfaces to be laid in over-run areas, three signs one bollard and one lit road sign to be removed.</p> <p>Swept path assessment drawing SPA041 is included in Appendix B.</p>
<p>44</p>	<p>A82 Telford Street</p> 	<p>Loads will over-sail the southern footway and the crossing island when passing the signalised pedestrian crossing.</p> <p>Swept path assessment drawing SPA042 is included in Appendix B.</p> <p>Note: due to the greater maximum width of the Base and Lower Mid Towers it is recommended these components contraflow the junction with escorts holing oncoming traffic 60m from the junction.</p>

POI	Key Constraint	Details
45	Telford Street / Carsgate Road Roundabout 	<p>Loads will take the 2nd exit.</p> <p>Loads will over-sail the south western footway and central island where two signs and one lit road sign should be removed.</p> <p>Swept path assessment drawing SPA043 is included in Appendix B.</p>
46	A862 / King Brude Road Junction 	<p>Loads will progress ahead.</p> <p>A test-run should be utilised to ensure suitable clearances can be obtained in passing the signalised junction.</p>

POI	Key Constraint	Details
<p data-bbox="293 607 331 633">47</p>	<p data-bbox="384 607 804 633">A862 / Scorguie Road Junction</p>  	<p data-bbox="927 607 1299 633">Loads will turn left southbound.</p> <p data-bbox="927 674 1342 701">Mid Tower – Clamp and Clamp:</p> <p data-bbox="927 707 1433 860">Loads will over-run and over-sail the eastern footway on approach and northern footway on exit where load bearing surfaces should be laid and vegetation should be trimmed back.</p> <p data-bbox="927 898 1414 1084">Loads will over-sail the inside turn where the wall and street sign should be confirmed suitable for load over-sail. 1 x lighting column and CCTV column to be removed. Due to limited clearances on all sides a test-run is recommended.</p> <p data-bbox="927 1122 1270 1149">Third party land required.</p> <p data-bbox="927 1189 1262 1216">Top Tower – Step Frame:</p> <p data-bbox="927 1223 1433 1375">Loads will over-sail the eastern footway on approach where vegetation should be trimmed back. Loads will over-run and over-sail the northern footway on exit a where load bearing surface should be laid.</p> <p data-bbox="927 1413 1414 1568">Loads will over-sail the inside turn where the wall and street sign should be confirmed suitable for load over-sail. 1 x lighting column and CCTV column to be removed.</p> <p data-bbox="927 1606 1270 1632">Third party land required.</p> <p data-bbox="927 1673 1433 1731">Swept path assessment drawing SPA044 is included in Appendix B.</p>

POI	Key Constraint	Details
<p>48</p>	<p>Scorguie Road / King Brude Road Junction</p> 	<p>Loads will turn right southbound.</p> <p>Mid Tower – Clamp and Clamp: Loads will over-run and over-sail the southwest and eastern footways. Load bearing surfaces to be laid in over-run areas. Utilities to be protected, embankment to be potentially reprofiled to accommodate load over-sail and 1 x road sign to be removed.</p> <p>Limits of adoption to be confirmed.</p> <p>Top Tower – Step Frame: Loads will over-sail the northern footway and over-run and over-sail the southwest footway where a load bearing surface is to be laid. One road sign to be removed or confirmed suitable for load over-sail.</p> <p>Swept path assessment drawing SPA045 is included in Appendix B.</p>
<p>49</p>	<p>General Booth Road</p> 	<p>Loads will pass four sets of traffic islands. Bollards to be removed during deliveries to improve clearances, test-run recommended.</p>

POI	Key Constraint	Details
<p>50</p>	<p>General Booth Road / A82 Roundabout</p> 	<p>Loads will take the 4th exit.</p> <p>Loads will over-sail the eastern verge on approach, the central island and the south western verge on exit. Over-sail areas should be cleared of all obstructions.</p> <p>This roundabout is still under construction. As-built plans or a further site visit should be undertaken and the swept path assessment should be repeated upon site completion.</p> <p>Swept path assessment drawing SPA046 is included in Appendix B.</p>

<p>51</p>	<p>A82 Drumnadrochit</p> 	<p>Due to the constrained nature of this key location both tower sections 3 (mid) and 4 (top) are shown for configuration options A and B.</p> <p>Configuration A – worst case tower section 3 (mid) and tower section 4 (top):</p> <p>Loads will over-run and over-sail the island on approach and all sides of the junction. Load bearing surfaces to be laid in all over-run areas and utilities are to be protected. 2 x bollards to be removed from the splitter island.</p> <p>To maintain safe clearances to the monument loads will over-run beyond the footway to the north where a section of stone wall is to be removed. Third party land required.</p> <p>Inside of the turn a section of wall and fence is to be over-sailed with load suspension set to maximum and vertical clearances confirmed suitable by the haulier. Trees and vegetation to be cleared, limits of adoption to be confirmed. Outside exit of turn the load bearing capacity of bridge footway is to be confirmed.</p> <p>Configuration B - worst case tower section 4 (top) and tower section 3 (mid):</p> <p>Loads will over-run and over-sail the island on approach and all sides of the junction. Load bearing surfaces to be laid in all over-run areas and utilities are to be protected. Inside of the turn a section of wall and fence is to be over-sailed with load suspension set to maximum and vertical clearances confirmed suitable by the haulier. Trees and vegetation to be cleared, limits of adoption to be confirmed.</p>
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Bhlaraidh Wind Farm Extension



POI	Key Constraint	Details
		Swept path assessment drawing SPA047 is included in Appendix B.

POI	Key Constraint	Details
52	A82 Roundabout, Drumnadrochit 	<p>Loads will proceed through the roundabout taking the 2nd exit.</p> <p>Loads will over-sail and over-run the central island. A load bearing surface should be laid and one combined road/chevron sign removed.</p> <p>Swept path assessment drawing SPA048 is included in Appendix B.</p>
53	A82 Right Bend, Strone 	<p>Loads will over-sail the inside bend where vegetation should be trimmed back.</p> <p>Due to the constraints of this location a test-run is recommended.</p> <p>Swept path assessment drawing SPA049 is included in Appendix B.</p>

POI	Key Constraint	Details
54	A82 Series of Bends South of Strone 	<p>Loads will present mild over-sail of both verges throughout this section and rear wheel steer will be required through multiple sections of the A82.</p> <p>Tree canopy and vegetation to be trimmed back.</p> <p>Due to limited detail within OS Mapping throughout this section due to tree canopy and on account of the sinuous nature of the road alignment a test-run is strongly recommended.</p> <p>Swept path assessment drawing SPA050 is included in Appendix B.</p>
55	A82 Series of Bends South of Bunloit 	<p>Loads will over-sail the inside verge. The tree canopy and vegetation should be trimmed back throughout on both sides of the carriageway.</p> <p>Due to limited detail within OS Mapping throughout this section due to tree canopy and on account of the sinuous nature of the road alignment a test-run is strongly recommended.</p> <p>Swept path assessment drawing SPA051 is included in Appendix B.</p>

POI	Key Constraint	Details
56	A82 Series of Bends Balbeg 	<p>Loads will over-sail the inside and outside verges throughout this section. The tree canopy and vegetation should be trimmed back throughout on both sides of the carriageway.</p> <p>Due to limited detail within OS Mapping throughout this section due to tree canopy and on account of the sinuous nature of the road alignment a test-run is strongly recommended.</p> <p>Swept path assessment drawing SPA052 is included in Appendix B.</p>
57	A82 Series of Bends South of Alltsigh 	<p>Loads will over-sail the inside and outside verges throughout this section. The tree canopy and vegetation should be trimmed back throughout on both sides of the carriageway. Two bollards to be removed.</p> <p>Due to the constrained nature of this location a test-run is recommended.</p> <p>Swept path assessment drawing SPA053 is included in Appendix B.</p>

POI	Key Constraint	Details
58	A82 / A887 Invermoriston 	<p>Loads will proceed to Site taking the right turn onto the A887.</p> <p>No physical mitigation is expected.</p>
59	A887 Site Access 	<p>Blade loads will approach the site access from the west and tower loads will approach from the east.</p> <p>Loads will over-run and over-sail the junction to the southwest where a load bearing surface should be laid. Loads will over-sail the south-eastern and northern verges where the tree canopy, vegetation and all physical obstructions should be removed. Gate access and associated fencing to be removed or widened to permit proposed loads.</p> <p>A swept path assessment of this location has previously been provided by Tetra Tech.</p> <p>The access should be designed to manufacturer's minimum standards.</p> <p>Swept path assessment drawing SK001 is included in Appendix B.</p>

Swept Path Assessment Results

- 4.12 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).
- 4.13 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.
- 4.14 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.
- 4.15 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

- 4.16 Where noted SSER should secure the land necessary to accommodate the proposed mitigation along the route. Assuming that the outlined mitigation is performed, the route from the Kyleakin Slipway and Port of Inverness to the site access are considered feasible for the delivery of proposed components noting that final selection of Port of Entry for blade components will be dependent on final turbine selection post planning consent.

Land Ownership and Utilities

- 4.17 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 affected Council areas 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.

- 4.18 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

- 4.19 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. FRAMEWORK 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 Figure 5-2 and 5.3 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. Figure 5.2 illustrates a cover panel secured by clips that would alert drivers that no convoys were operating during that week.

Figure 5-2: Indicative Information Sign

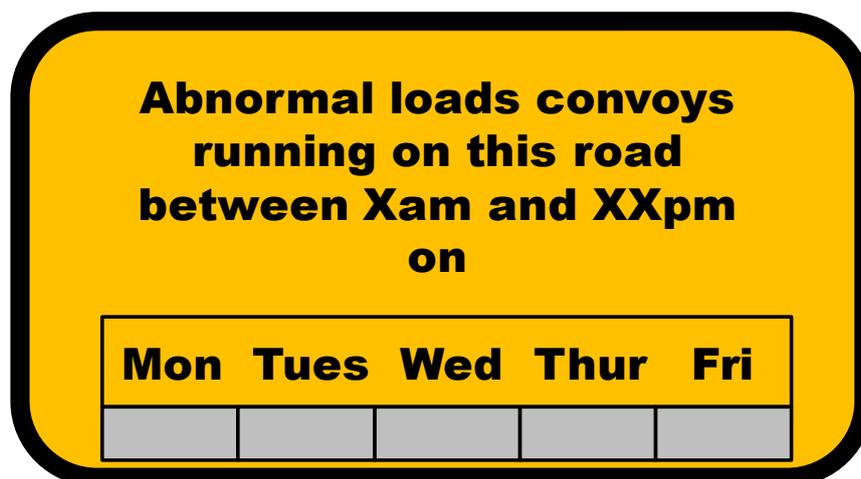
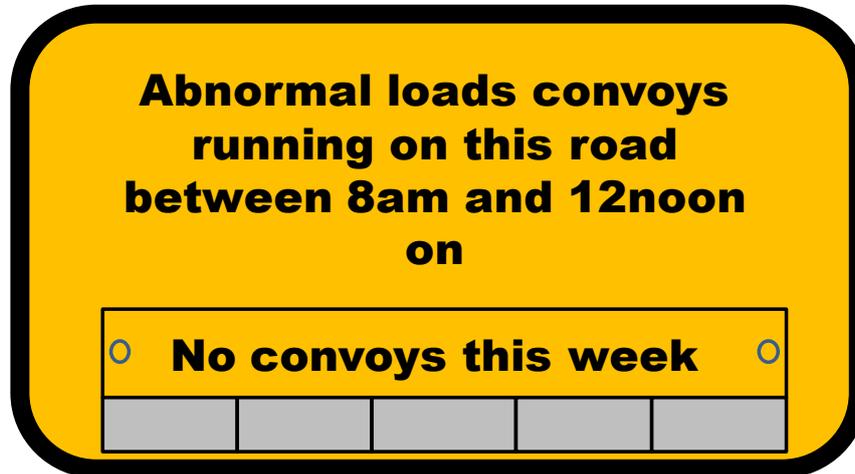


Figure 5-3: Indicative Information Sign



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 (two 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 Further discussions will be held with the relevant road's authorities and police through the ESDAL consultation process which will confirm the exact timings, number of police and civilian escorts and the number of vehicles in the abnormal load convoys.
- 5.9 The times in which the convoys would travel will need to be agreed with Police Scotland. 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.
- 5.10 A full convoy operation plan for the route will require to be developed in consultation with Police Scotland, Transport Scotland and Highland Council before deliveries commence to the site.

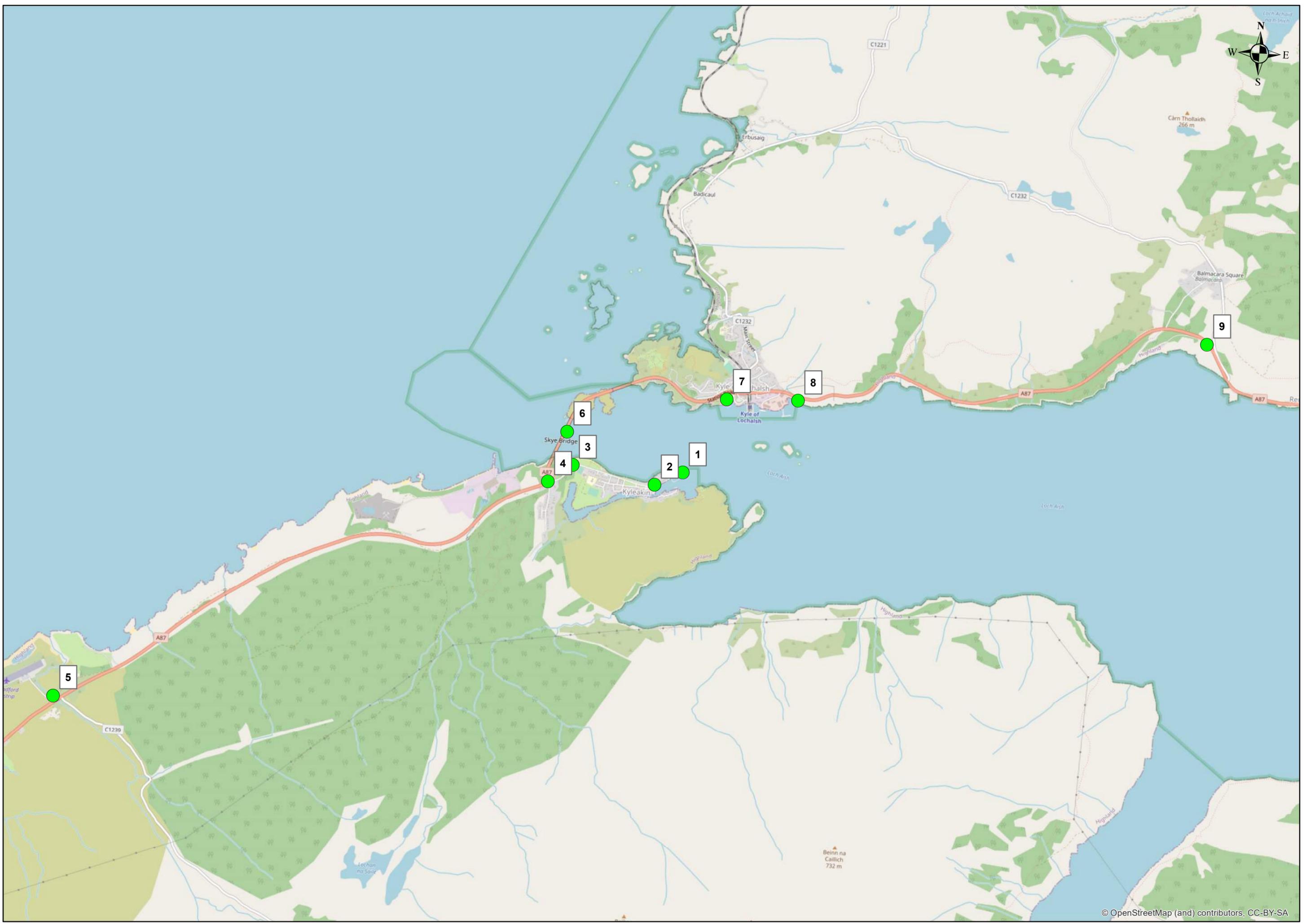
6. SUMMARY AND FURTHER WORKS

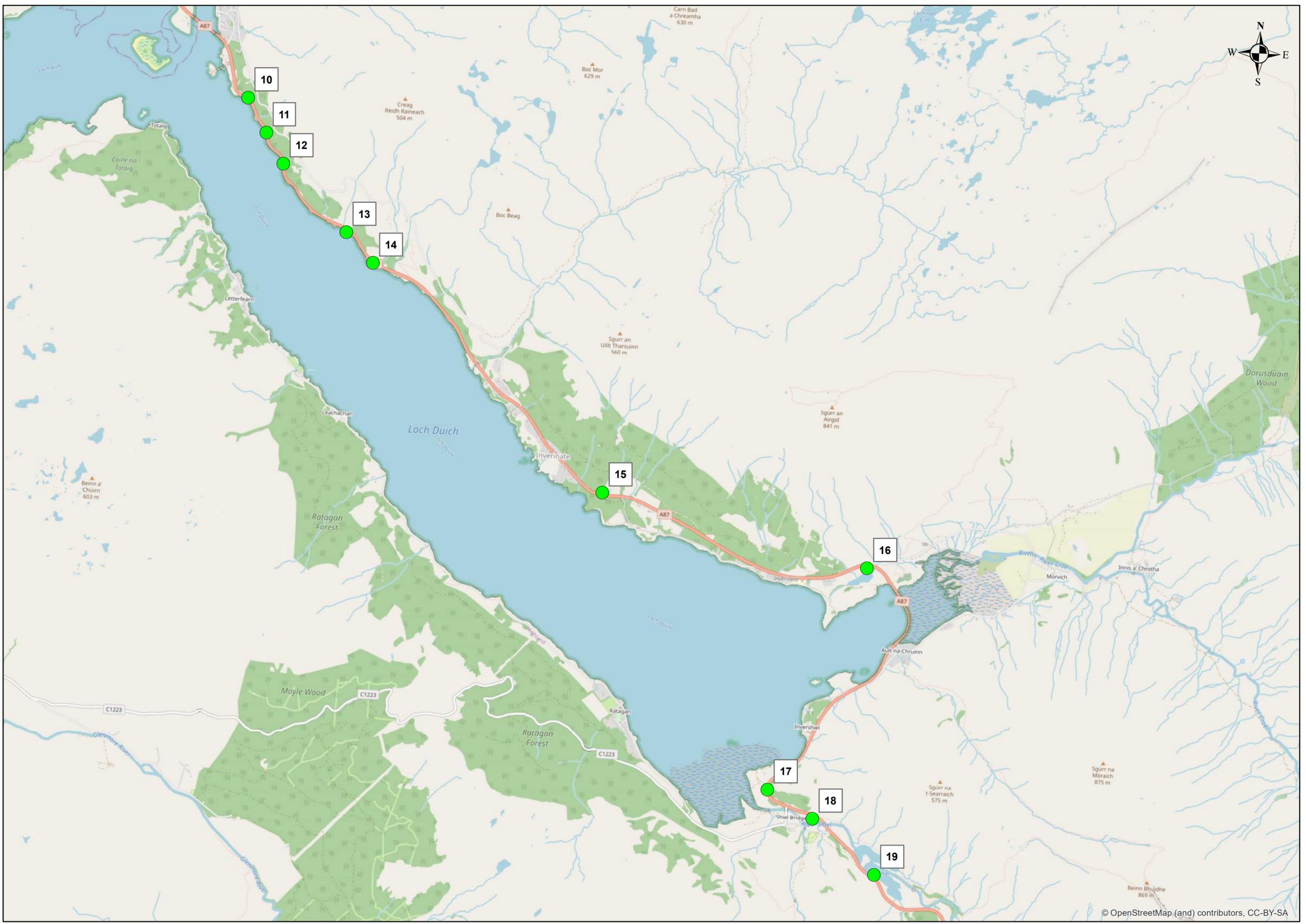
Summary

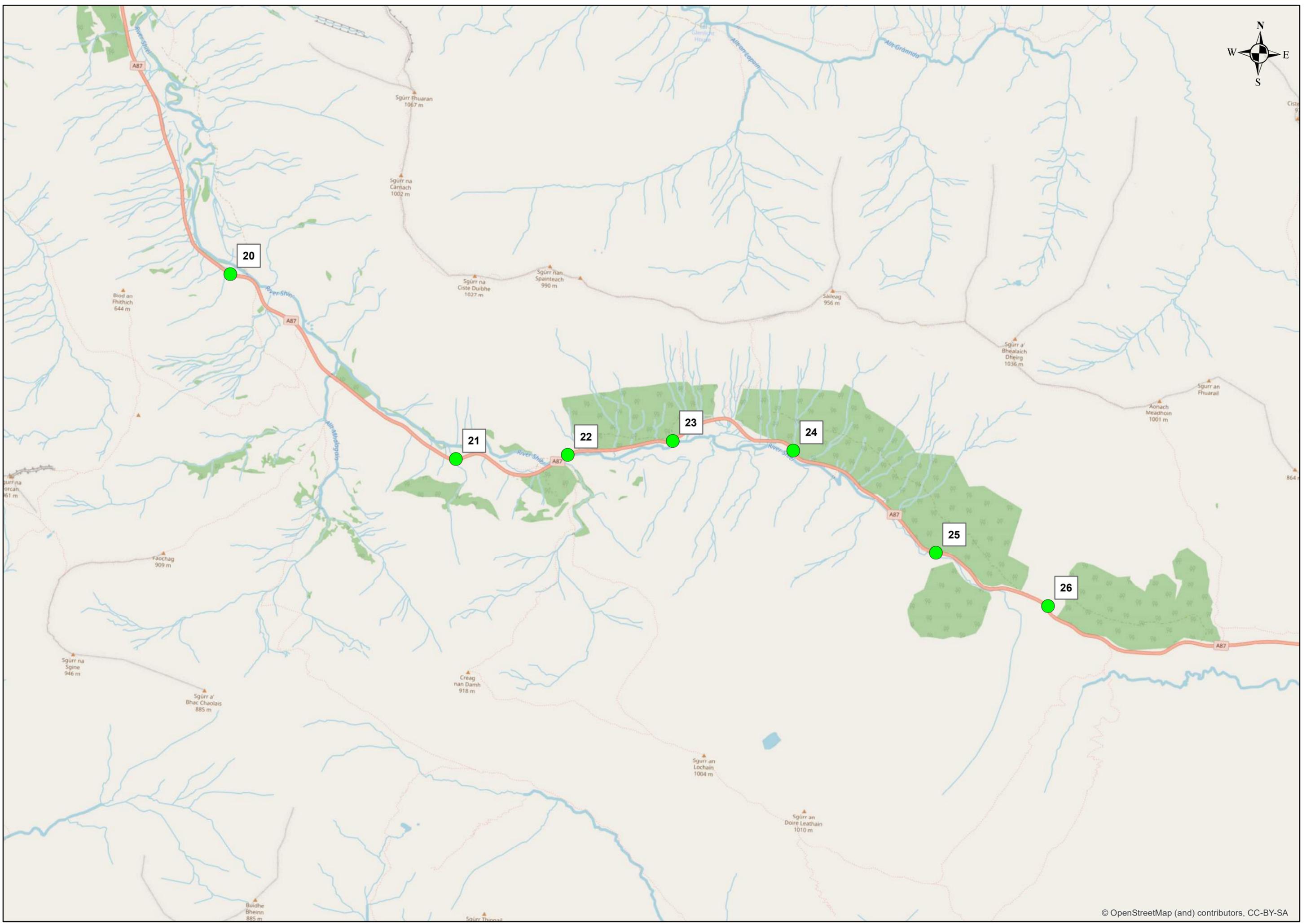
- 6.1 Tetra Tech has commissioned by SSER to undertake a route review for the delivery of abnormal loads associated with the proposed Bhlaraidh Ext Wind Farm located to the west of Invermoriston, Highlands.
- 6.2 This report identifies the key points and issues associated with the proposed route from the PoE to the site 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.

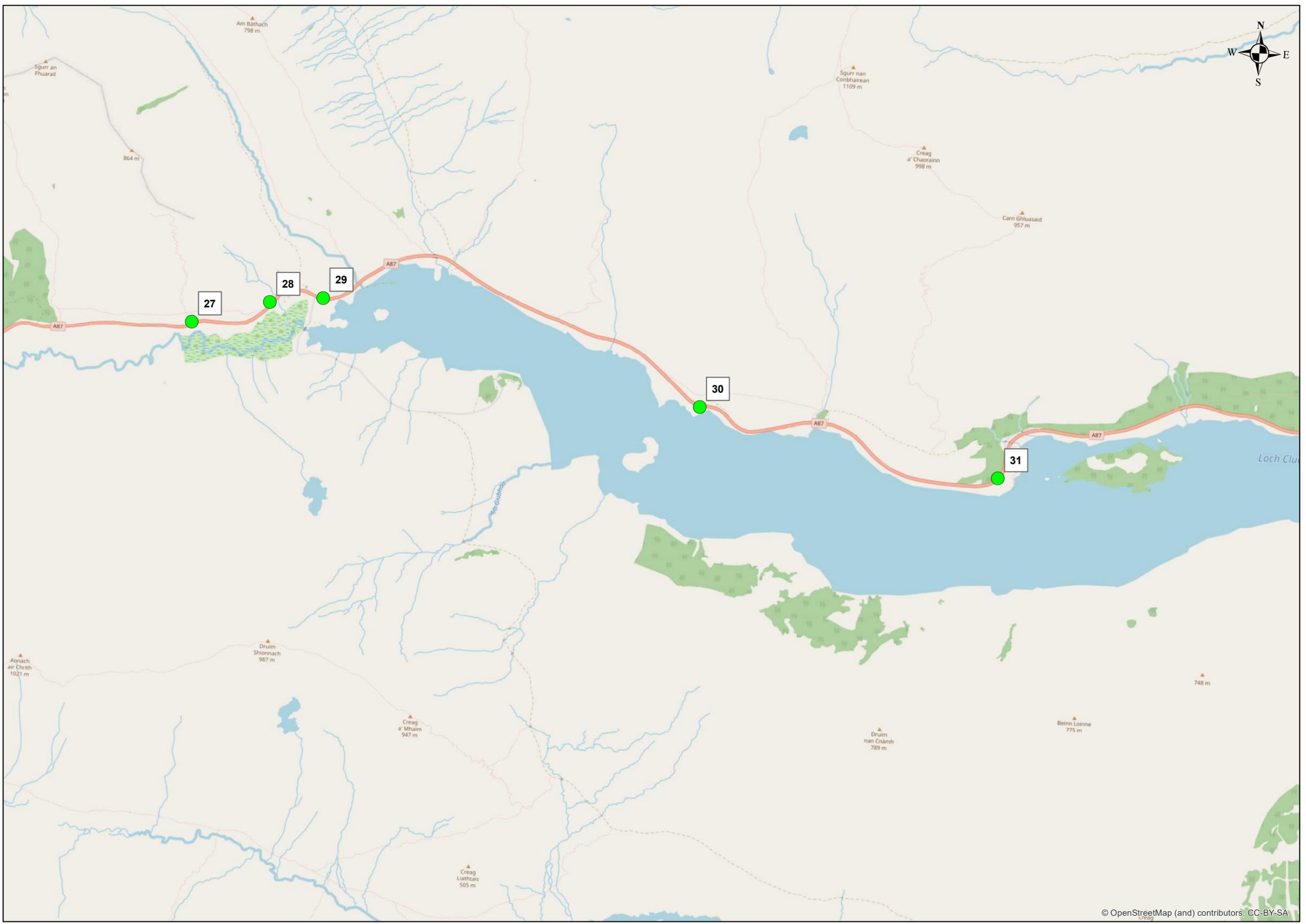
APPENDICES

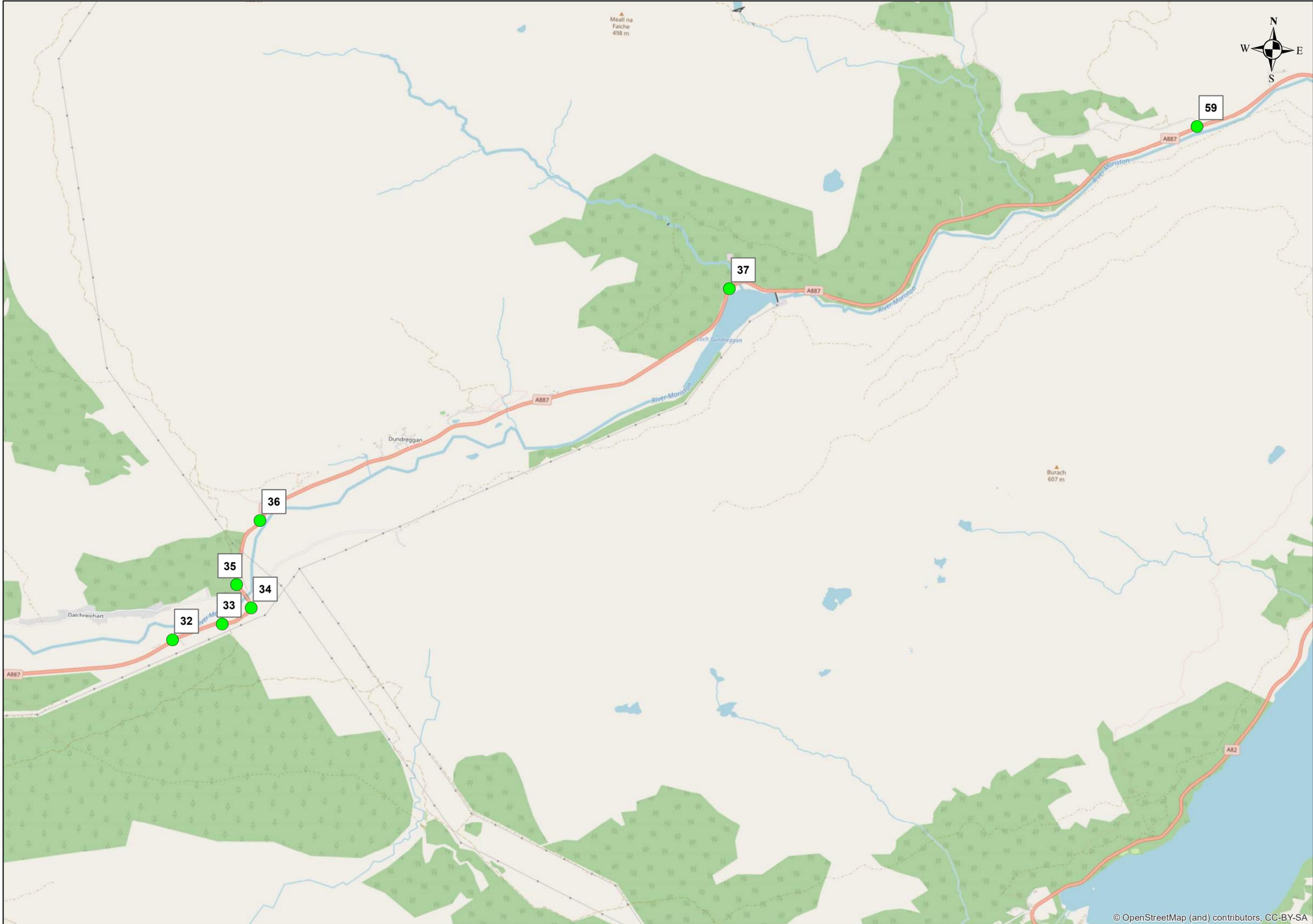
A. Point of Interest Locations (POI)

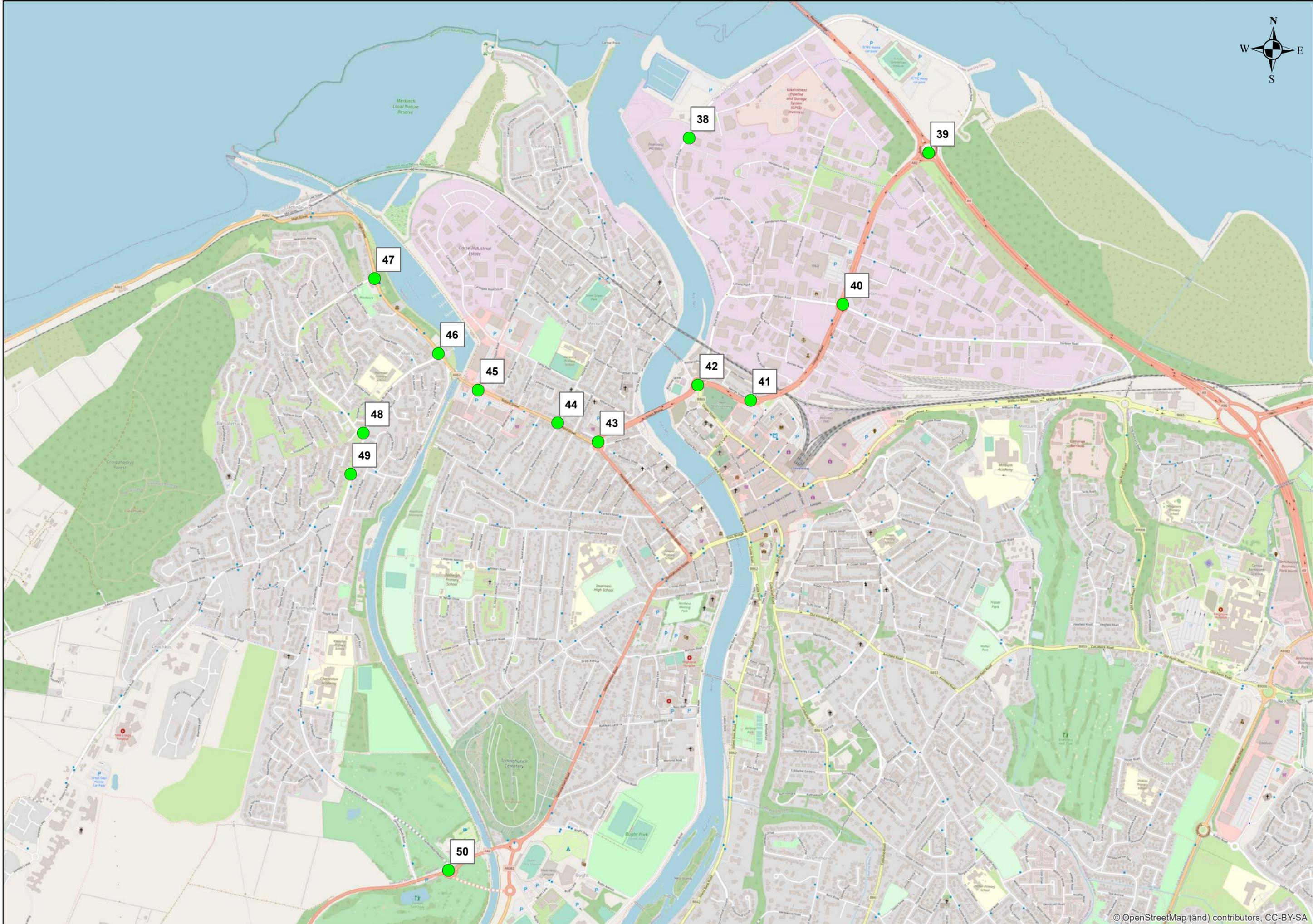


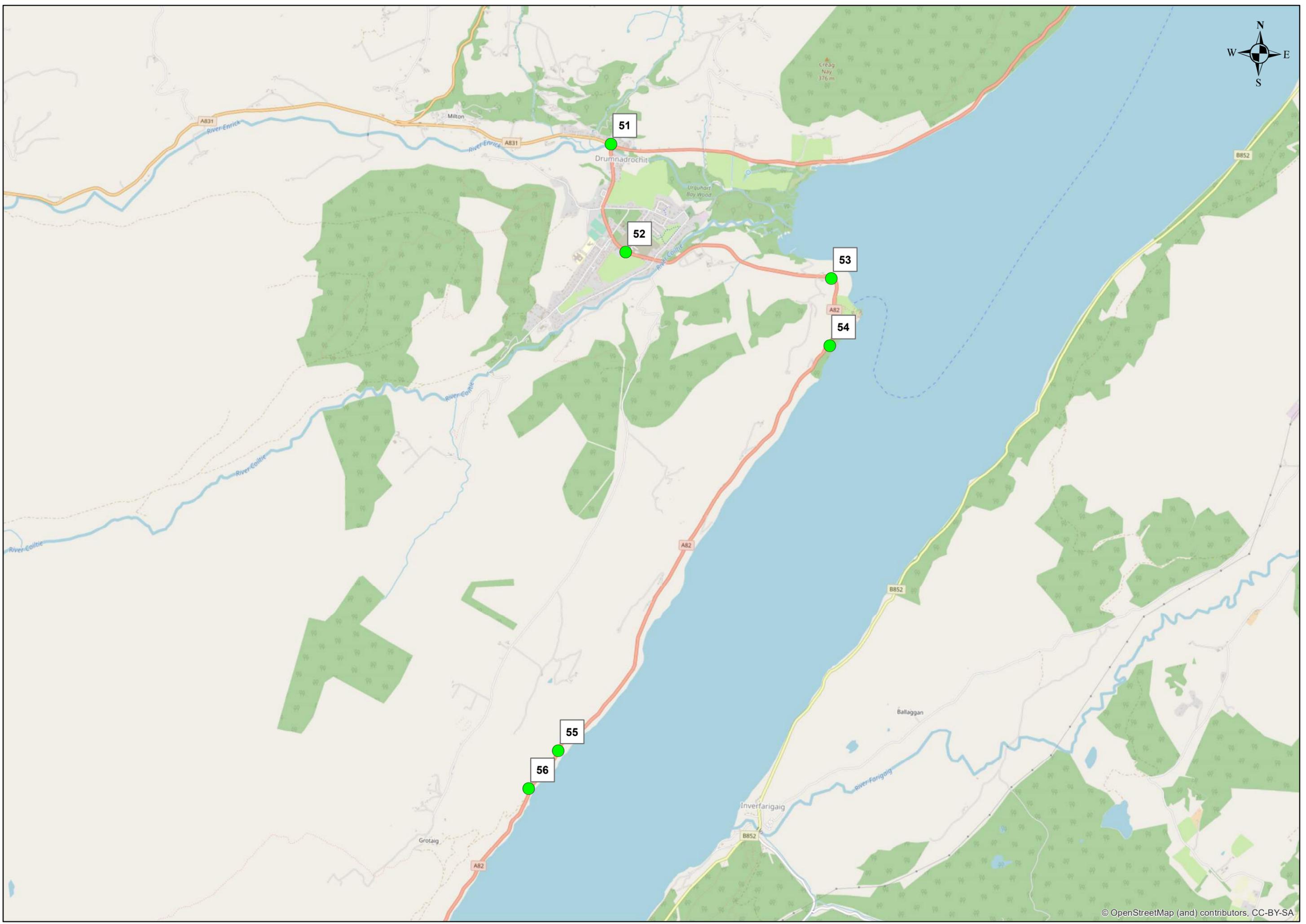














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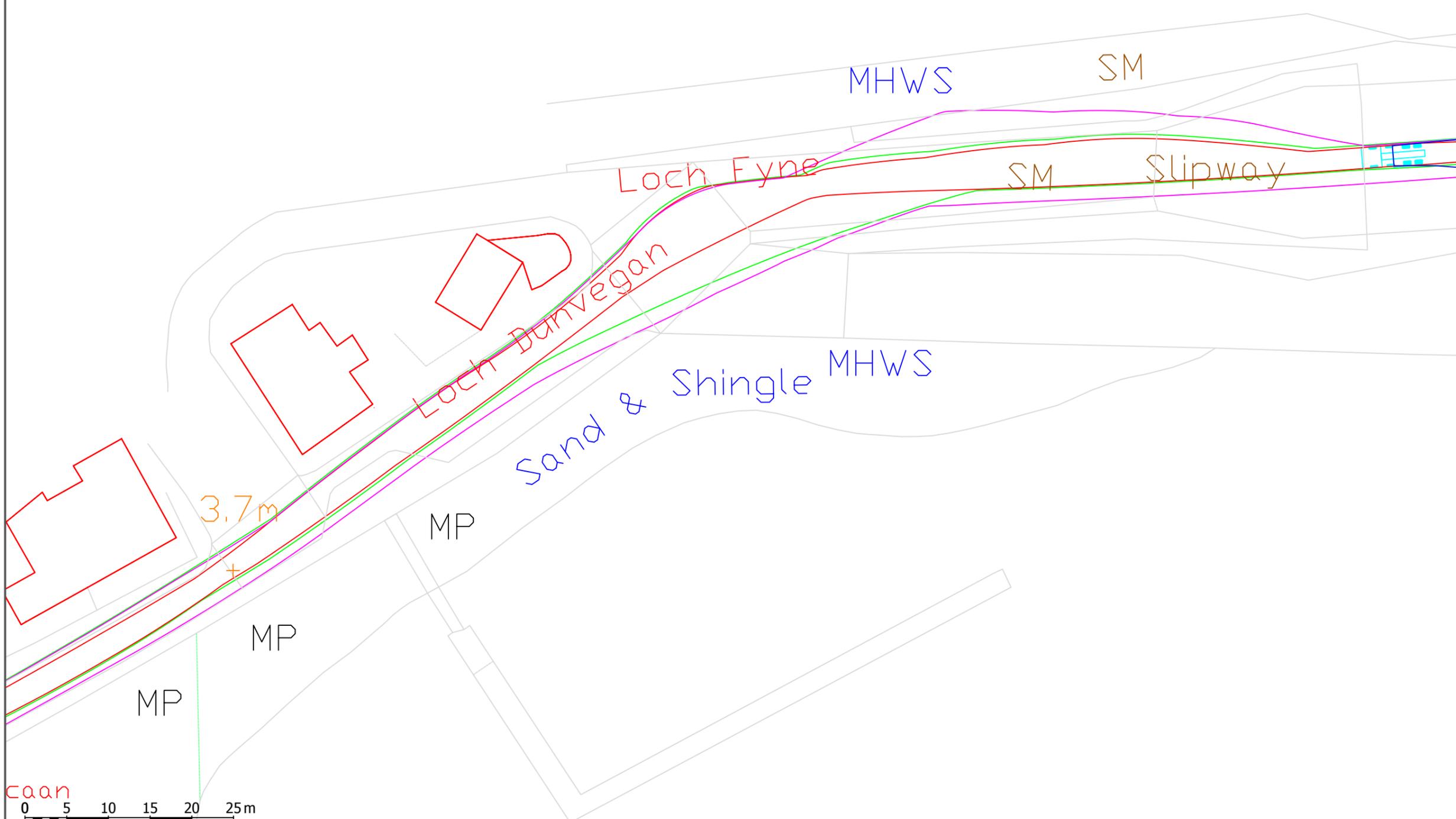
Bhlaraidh Wind Farm Extension



B. Swept Path Assessment (SPA)

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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SSE RENEWABLES

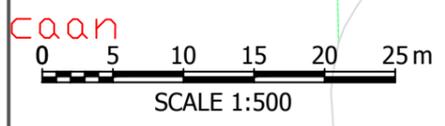
Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

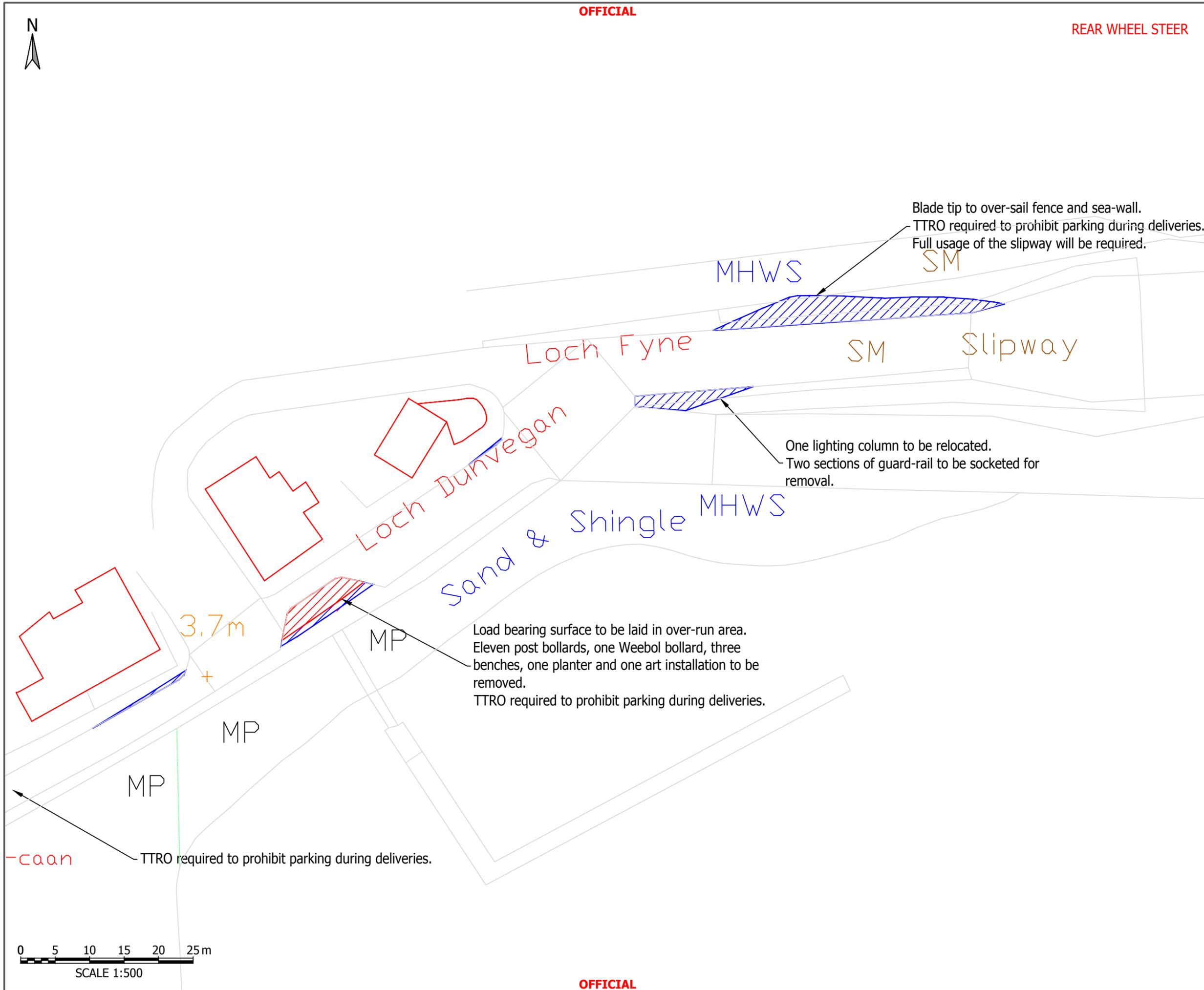
POI Location:
1 KYLEAKIN SLIPWAY

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	00	ZZ	DR - SPA	001	P02		



Key:

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



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

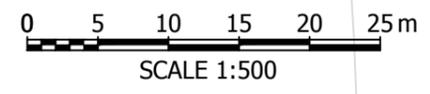
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: 1 KYLEAKIN SLIPWAY

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Key:

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



ar Park

Slipway

MEUSE LANE

3.

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SSE RENEWABLES

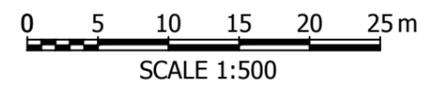
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

PC1 Location:
2 KYLEAKIN RIGHT BEND

Model Reference		DDP IDP Reference		LOD/LOI			
N/A		-		-			
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Scale @ A3	Suitability
A117008	LJ	Mar '21	MG	Mar '21	JD	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR - SPA	002	P02	

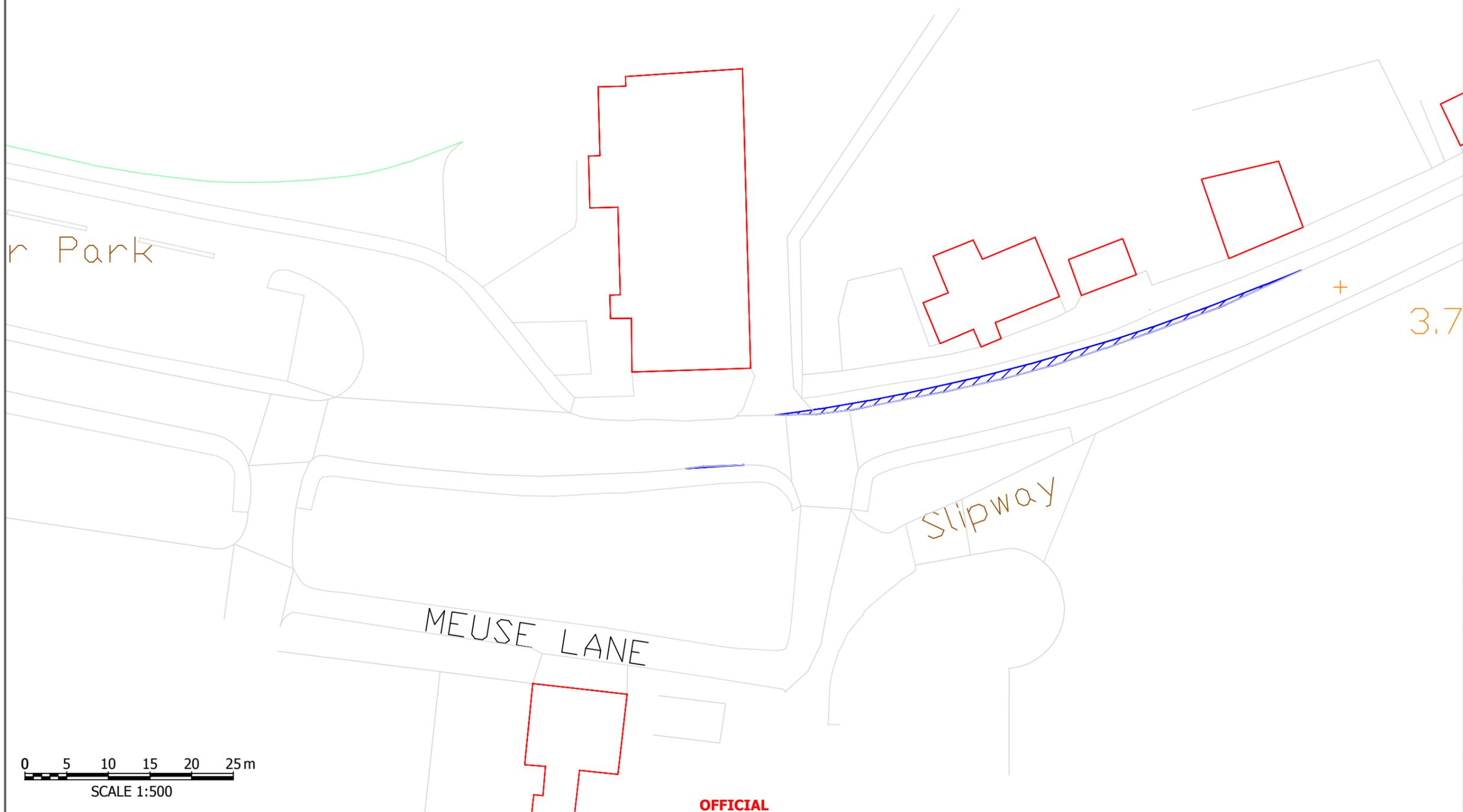


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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

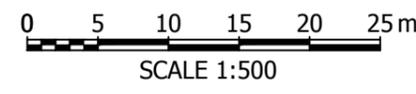
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: 2 KYLEAKIN RIGHT BEND

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Key:

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

Mast

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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

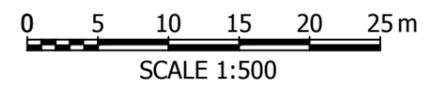
Sheet Title:
 SWEEP PATH ASSESSMENT

PC1 Location:
3 KYLEAKIN LEFT BEND

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	003	P02



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REAR WHEEL STEER

Key:

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

Mast

Land search recommended.

Load bearing surface to be laid in over-run area.
 Verge to be confirmed suitable for proposed loads.
 Trees and vegetation to be cleared.

One lighting column to be set back or temporarily removed.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

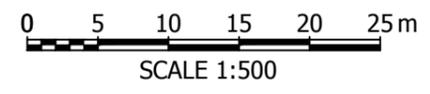
Sheet Title:
 REQUIRED REMEDIAL WORKS

PCX Location:
3 KYLEAKIN LEFT BEND

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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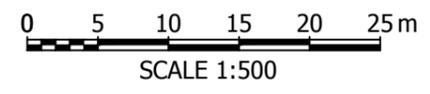
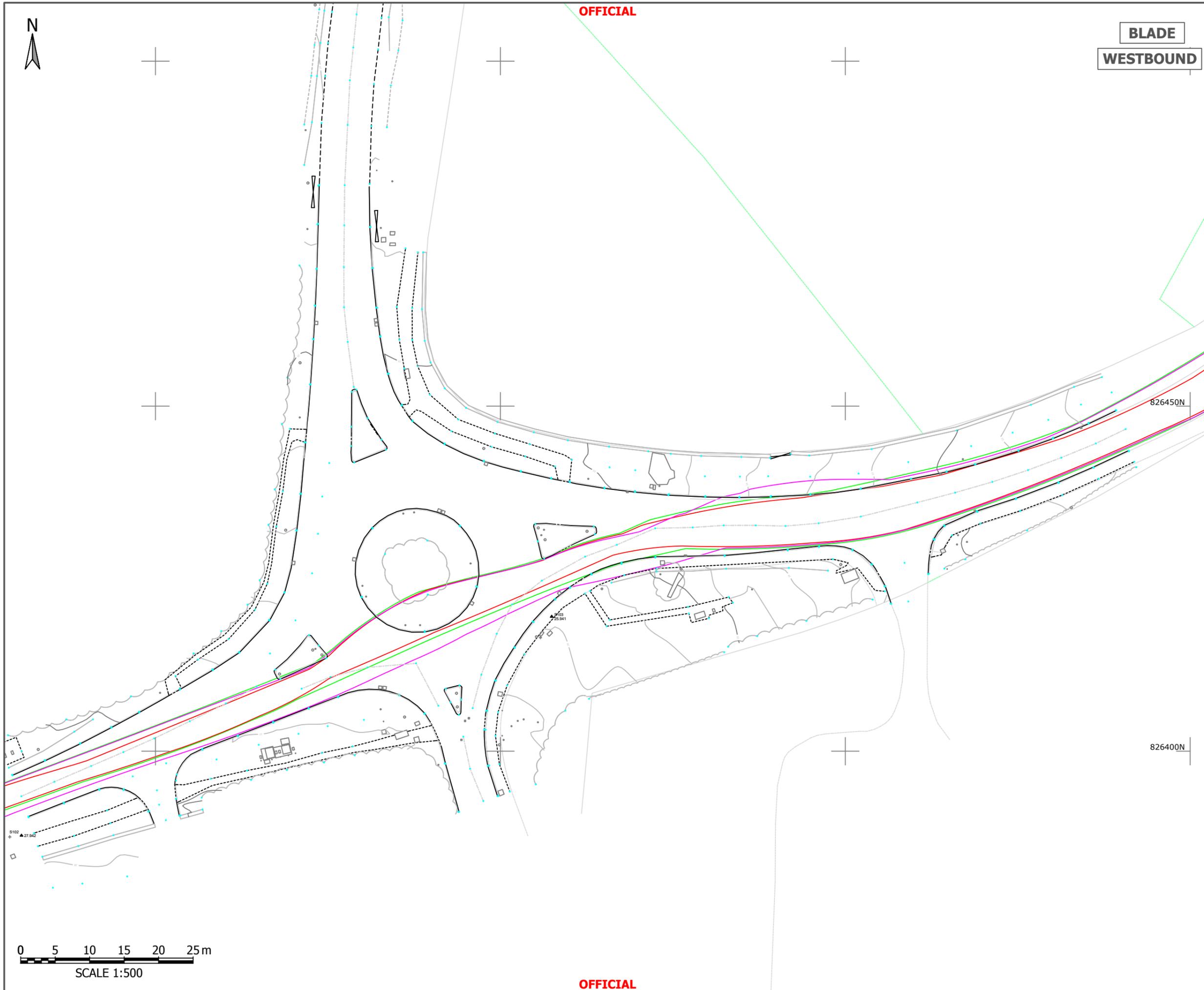
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BLADE
WESTBOUND

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
4 KYLEAKING ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	004	P02

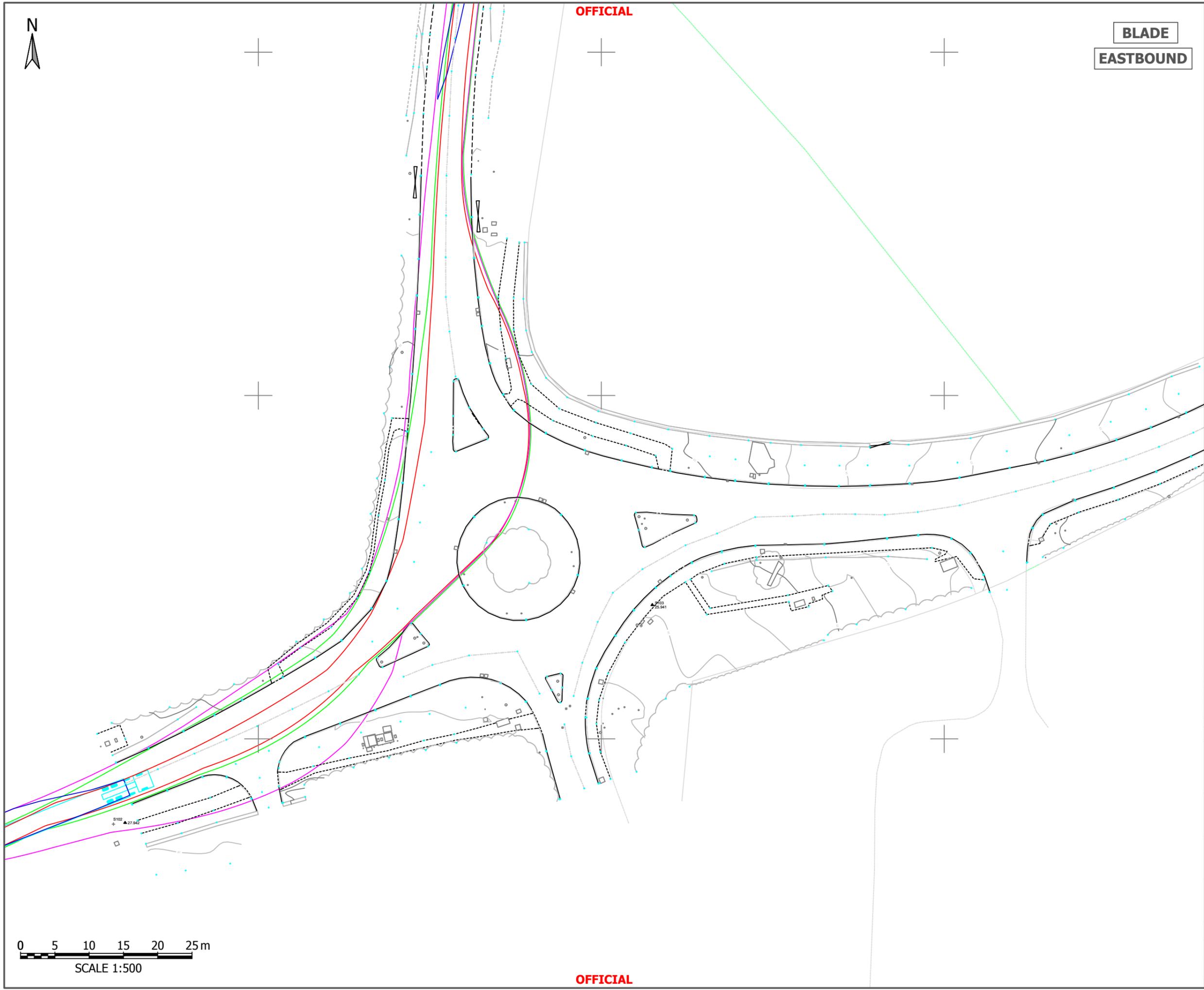


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BLADE
EASTBOUND

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

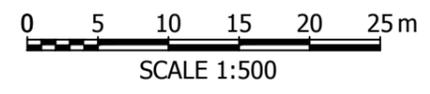
Sheet Title:
 SWEEP PATH ASSESSMENT

PC# Location:
 4 KYLEAKING ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	004-2	P02



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REAR WHEEL STEER

826500N

Key:

	OVER-SAIL REQUIRED
	OVER-RUN REQUIRED
	TOPOGRAPHICAL SURVEY MAPPING

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

Load bearing surface to be laid in over-run area.
Two combined lit chevron and road signs to be socketed.
Vegetation to be cut back.

One lighting column and two road signs to be set-back.
Limits of adoption to be confirmed.

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

One road sign to be relocated.

826450N

Vegetation to be trimmed back.

Load bearing surface to be laid in over-run area.
Two lit road signs and two chevron signs to be removed.
Vegetation to be cleared.

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

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

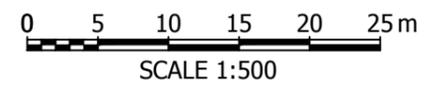
Sheet Title:
REQUIRED REMEDIAL WORKS

PC1 Location:
4 KYLEAKING ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	004-3	P02



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824400N

824350N

824300N

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BLADE
WESTBOUND

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

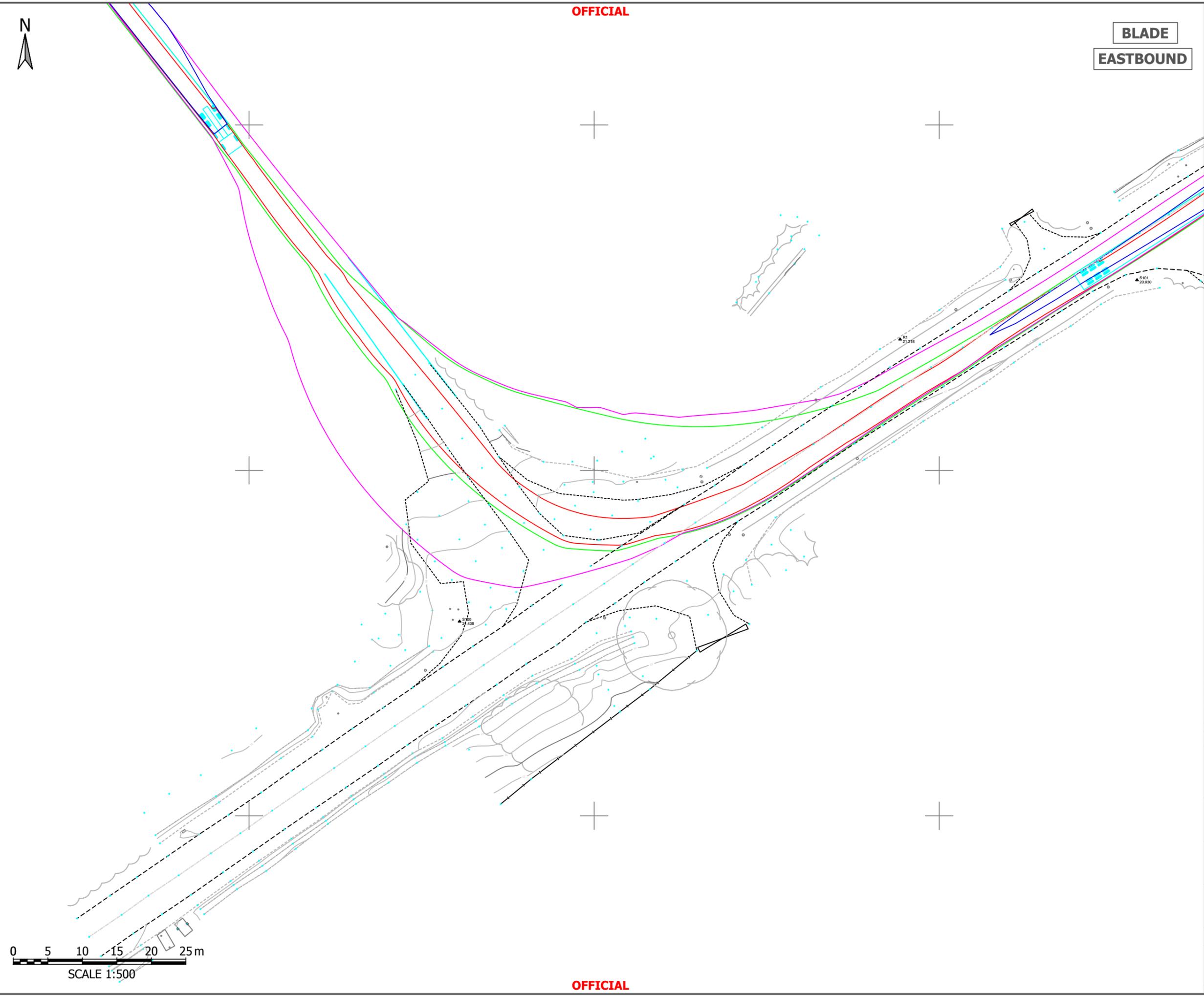
Sheet Title:
SWEEP PATH ASSESSMENT

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

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BLADE
EASTBOUND

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

POI Location:
5 SKYE AIRODROME (BROADFORD AIRPORT)

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

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 005-2 P02

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REAR WHEEL STEER

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

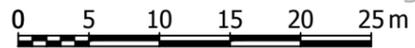
824400N

824350N

824300N

Load bearing surface to be laid in over-run area.
 Land to be re-profiled to carriageway level.
 OH Post to be removed.
 Three road signs to be removed.
 Vegetation to be cleared.
Third party land required.

Trees and vegetation to be cleared.
Third party land required.



SCALE 1:500

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN	Location
5	SKYE AIRODROME (BROADFORD AIRPORT)

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	00	ZZ	DR - SPA	005-3	P02		

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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
7 A87 KYLE OF LOCHALSH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  TOPOGRAPHICAL SURVEY MAPPING



827300N
175950E

827300N
176000E

827300N
176050E

827300N
176100E

827250N

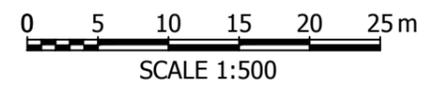
827250N

175950E
827200N

176000E
827200N

176050E
827200N

176100E
827200N



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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS

P01 Location:
A87 KYLE OF LOCHALSH

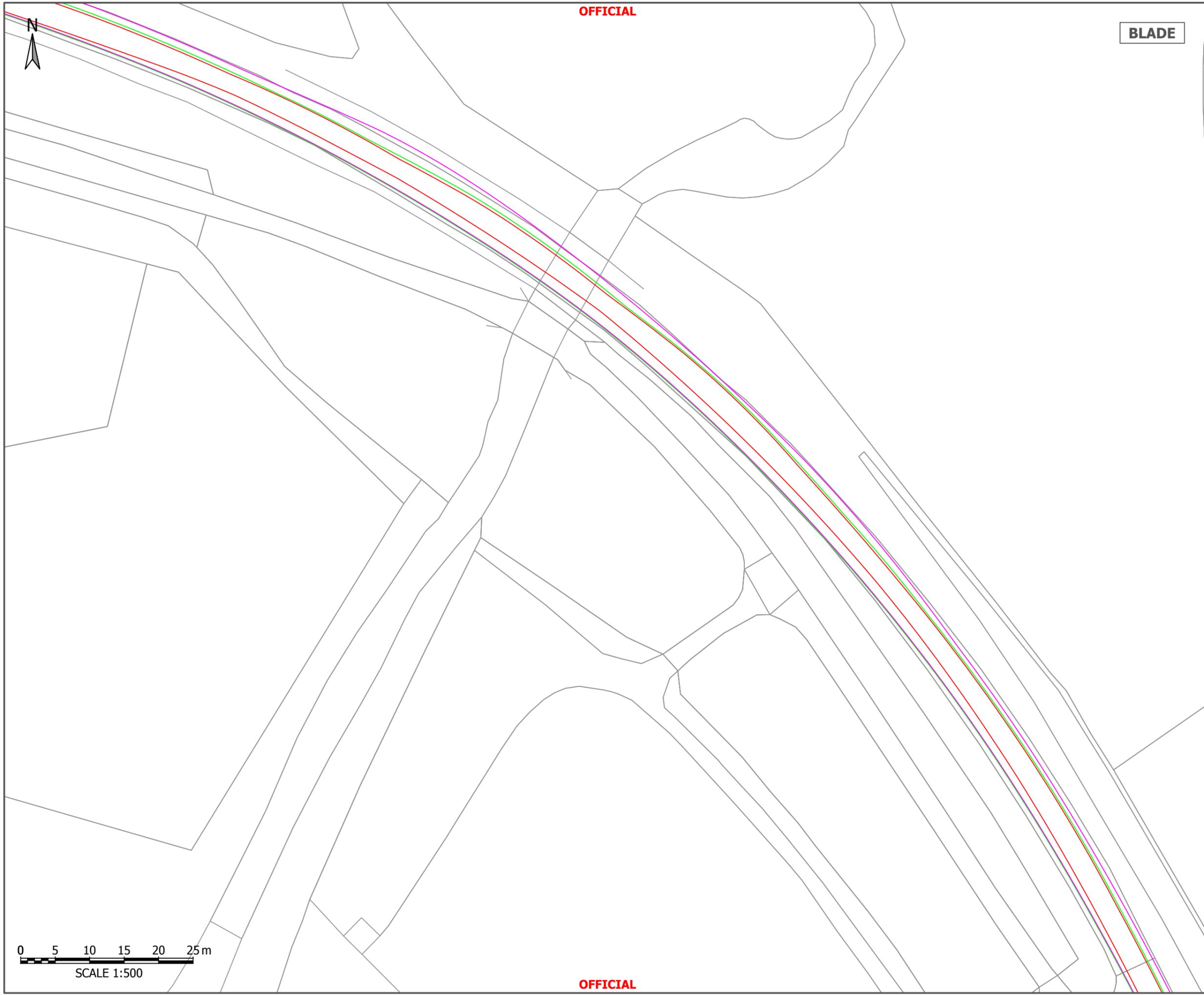
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Scale @ A3	Stability
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BLADE

Key:

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- WHEEL SWEEP PATH
- ORDNANCE SURVEY MAPPING



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

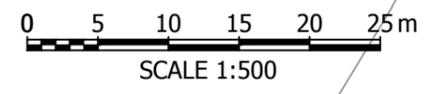
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
9 A87 APPROACHING BALMACARA

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	Stability
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PRJ01	TTE	00	ZZ	DR	SPA	007	P02



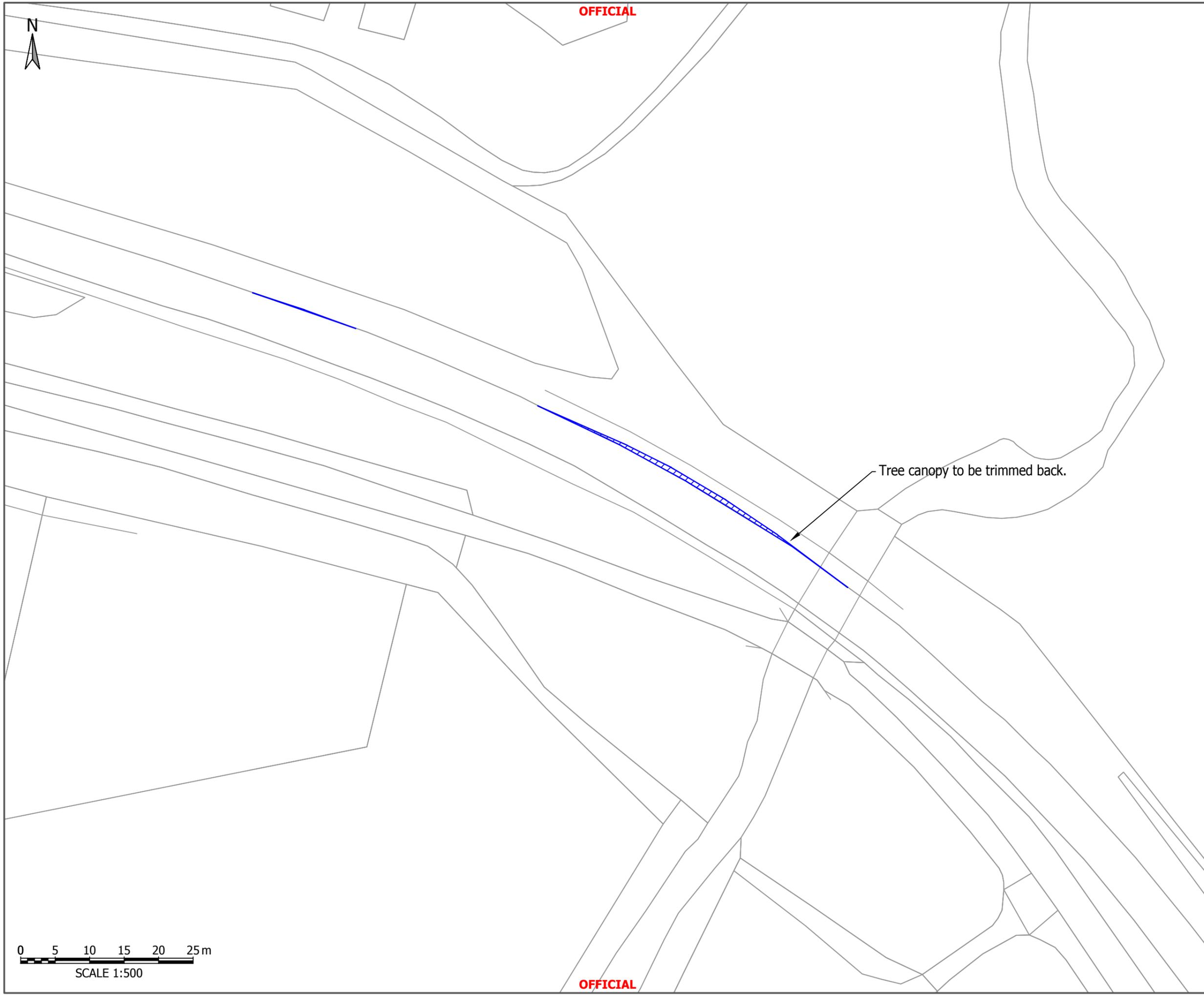
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Key:

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



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P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

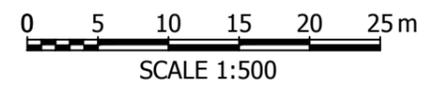
Sheet Title: REQUIRED REMEDIAL WORKS

P01 9 A87 APPROACHING BALMACARA

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	Mar '21	MG	Mar '21	JD	Mar '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	P02



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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:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

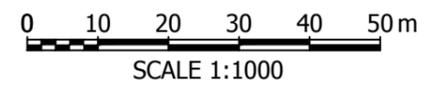
POI Location:
10 A87 SERIES OF BENDS SOUTH OF DORNIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	008	P02

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

Hedge to be trimmed back.
Max over-sail approx.1.15m.

Tree canopy and vegetation to be trimmed back.

Approx. 1.15m over-sail.

Loads to over-sail verge.
Proximity to guard-rail to be confirmed during test-run.
Loads may over-sail guard-rail.
Vegetation to be removed.

Approx. 1.10m over-sail.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

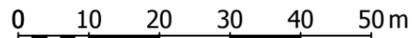
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PCN Location:
10 A87 SERIES OF BENDS SOUTH OF DORNIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR - SPA	008-2	P02	



SCALE 1:1000

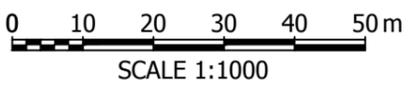
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BLADE

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



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: SWEEP PATH ASSESSMENT

POI: 11 Location: A87 SECOND SERIES OF BENDS STH OF DORNIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

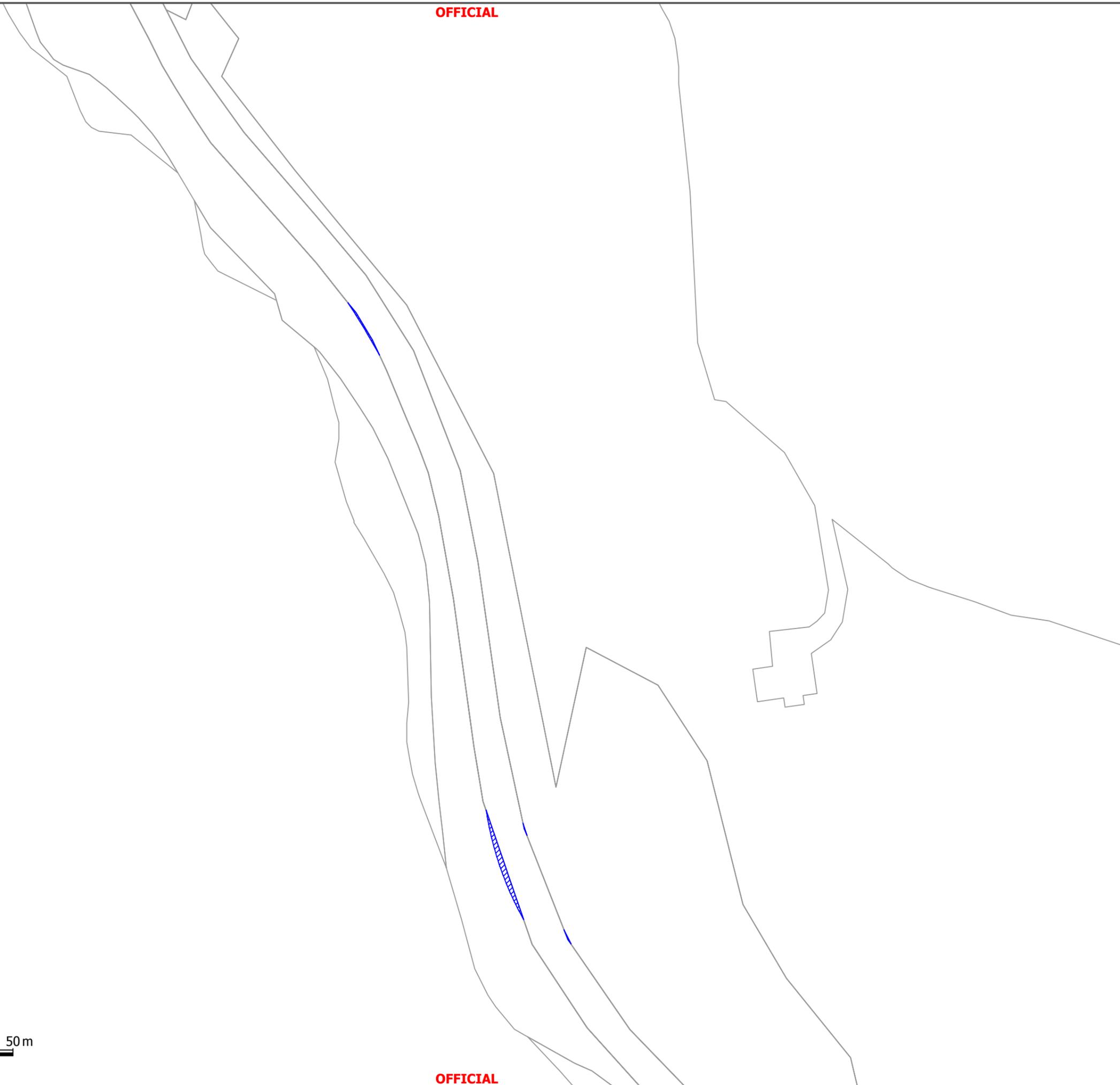
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	009	P02



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Key:

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



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Client:
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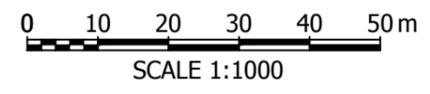
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

P01	Location
11	A87 SECOND SERIES OF BENDS STH OF DORNIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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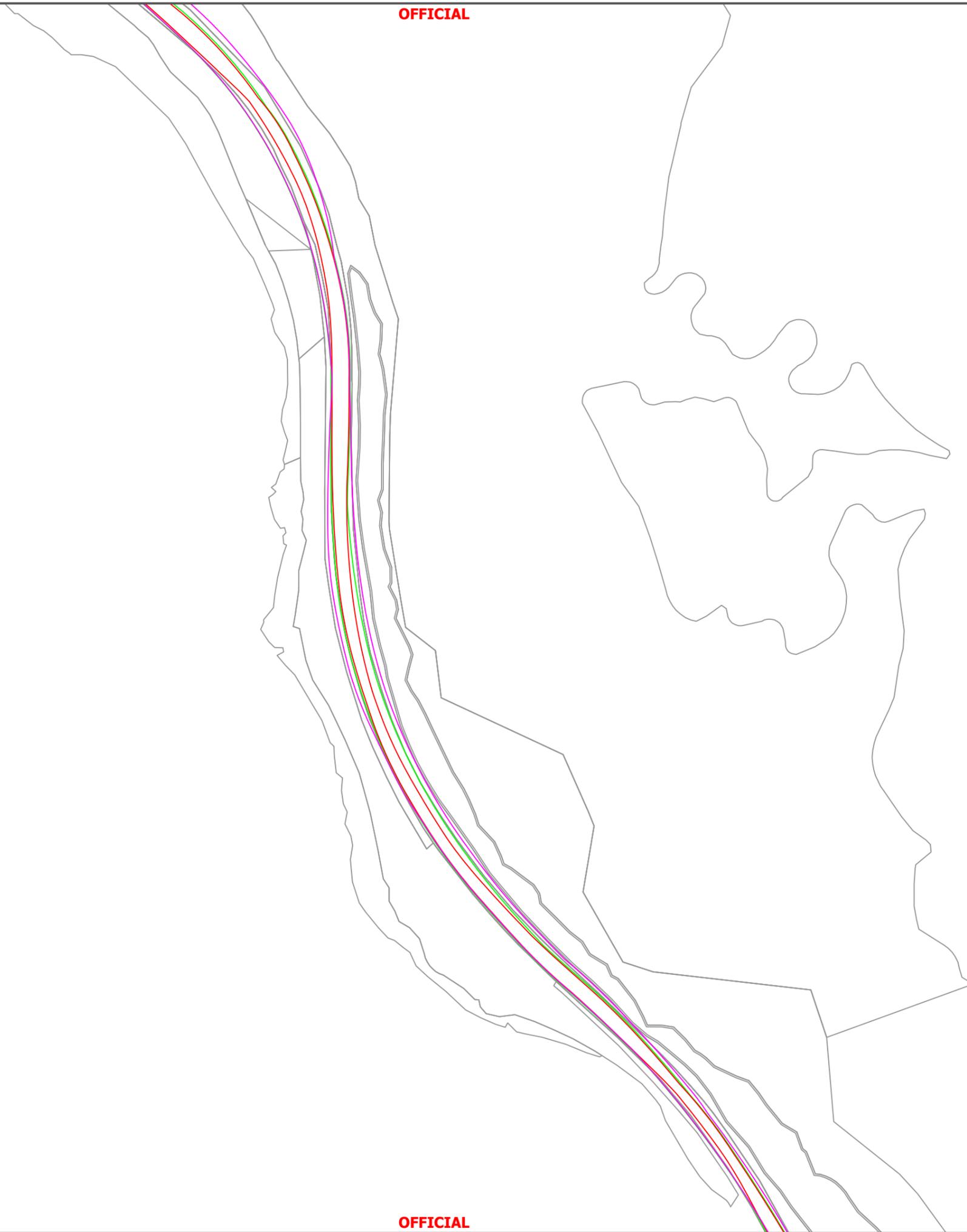


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BLADE

Key:

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



DRAFT ISSUE

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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

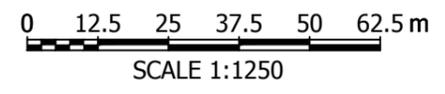
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
12 A87 THIRD SERIES OF BENDS STH OF DORNIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 010	P02



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Approx. 1.75m over-sail.
Limits of adoption to be confirmed.

Approx. 1.65m over-sail.
Limits of adoption to be confirmed.

Vegetation to be trimmed back.

Key:

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

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENS GAMESA SG155 BLADE & TOWER

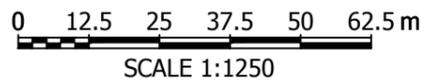
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REQUIRED REMEDIAL WORKS

POI	Location
12	A87 THIRD SERIES OF BENDS STH OF DORNIE

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	Mar '21	HG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	010-2	P02



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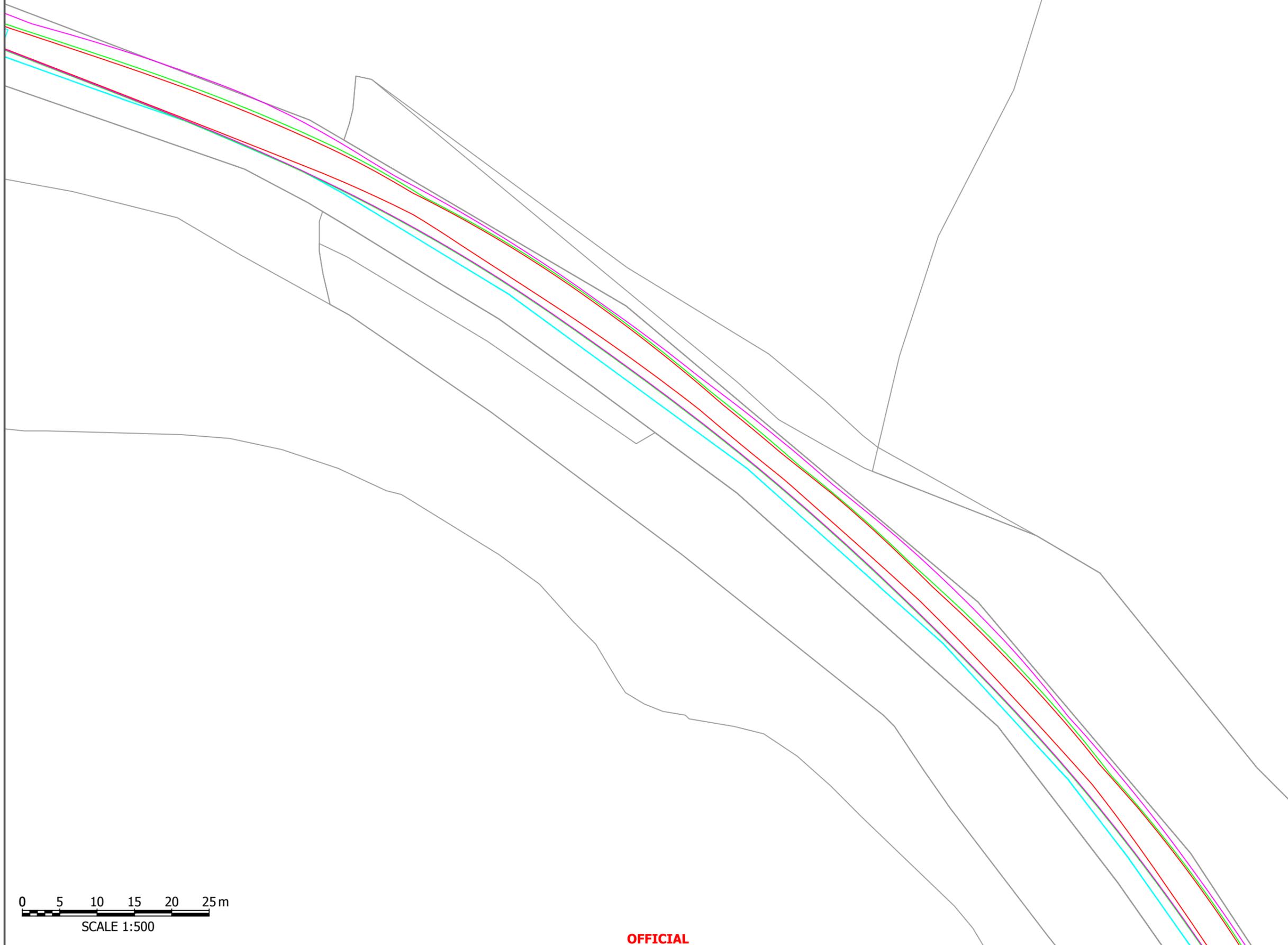
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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

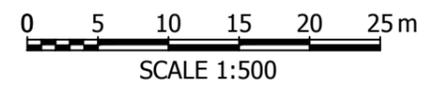
Sheet Title:
 SWEPT PATH ASSESSMENT

Plot Location:
13 A87 RIGHT BEND WEST OF KEPPOCH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	011	P02



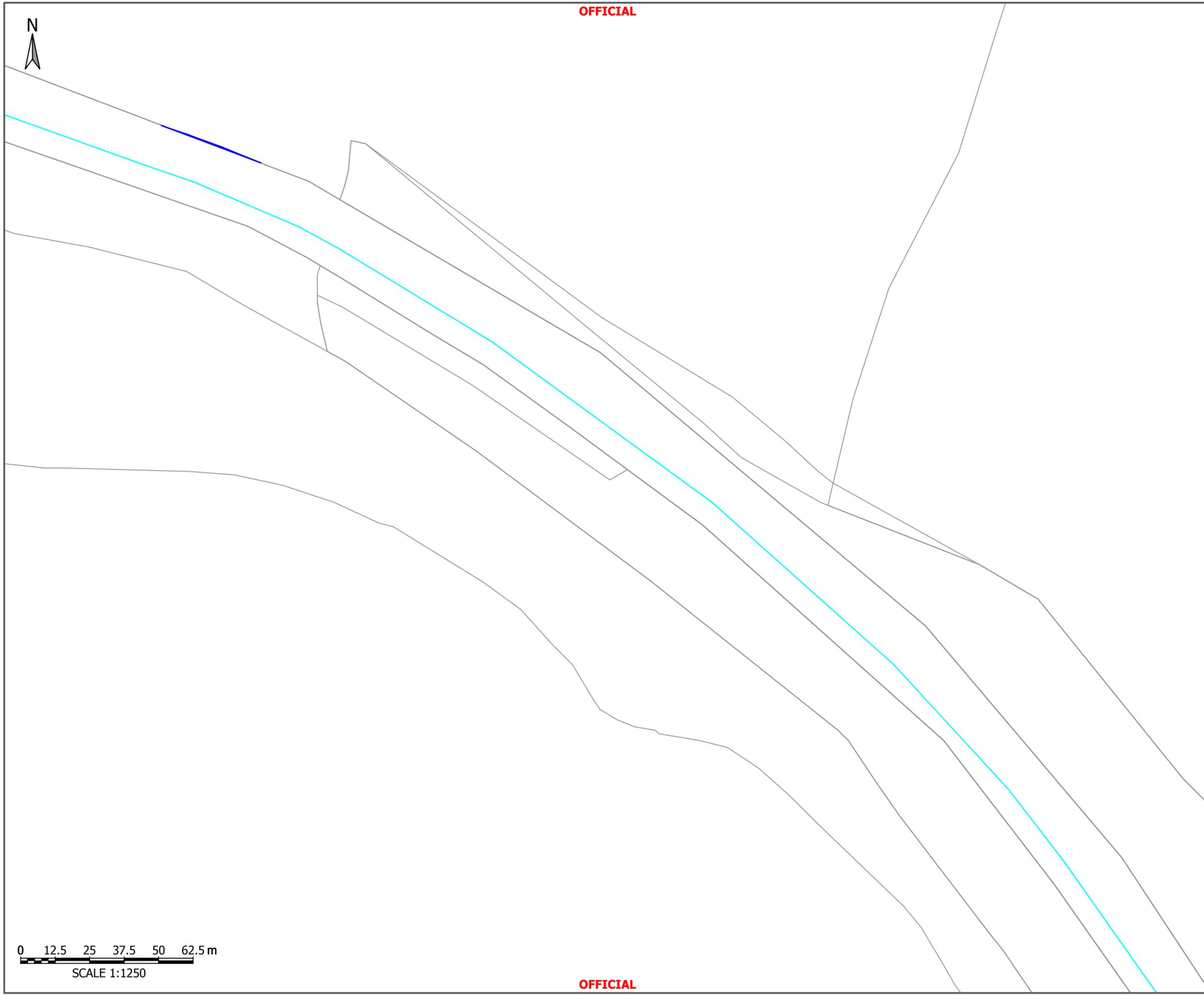
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Key:

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



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENS GAMESA SG155 BLADE & TOWER

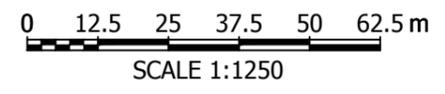
Sheet Title: REQUIRED REMEDIAL WORKS

PC1 Location: 13 A87 RIGHT BEND WEST OF KEPPICH

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	Mar '21	MG	Mar '21	JD	Mar '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	P02



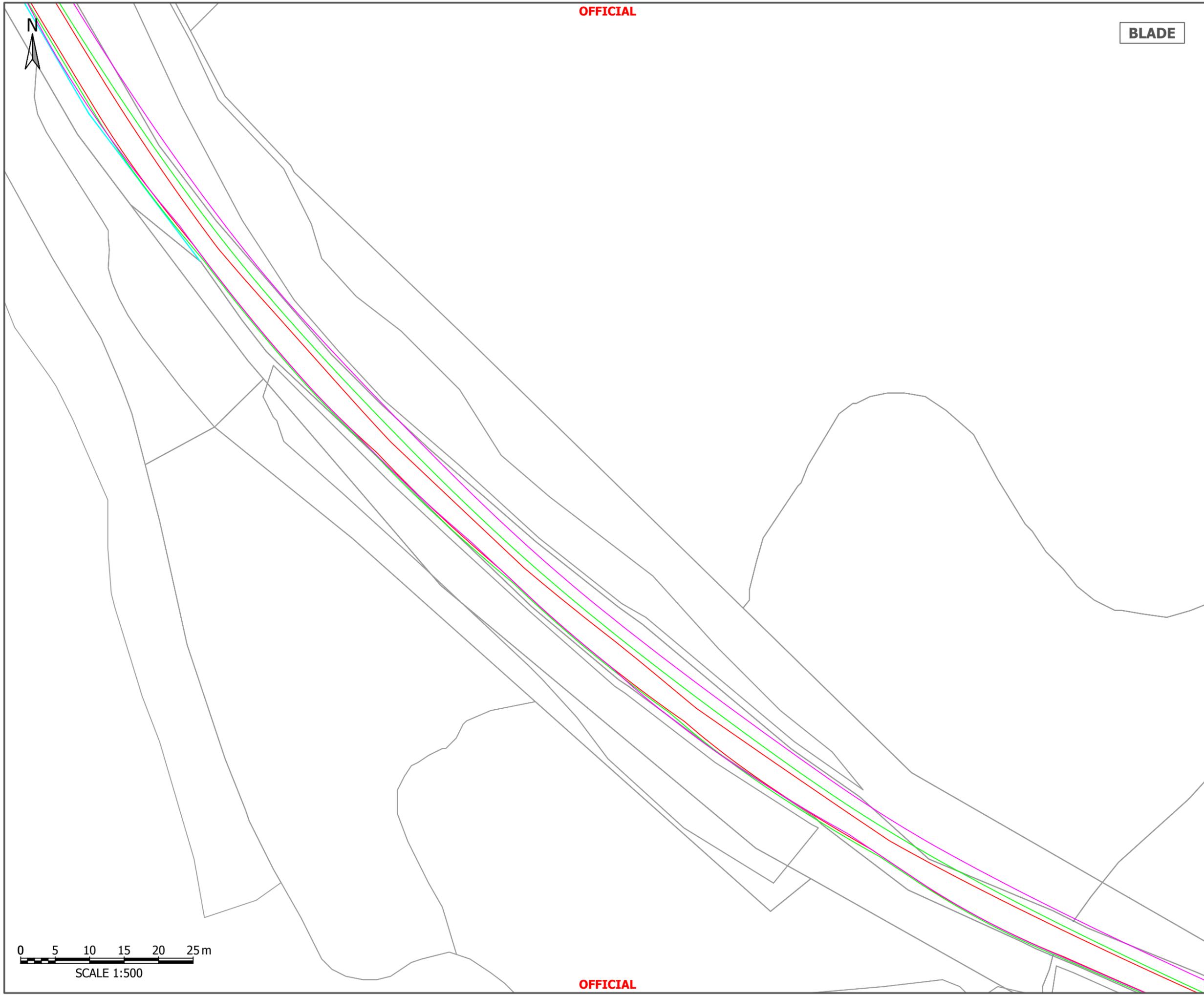
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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

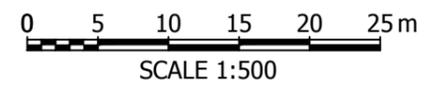
POI Location:
14 A87 LEFT BEND SOUTH OF KEPPICH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	012	P02

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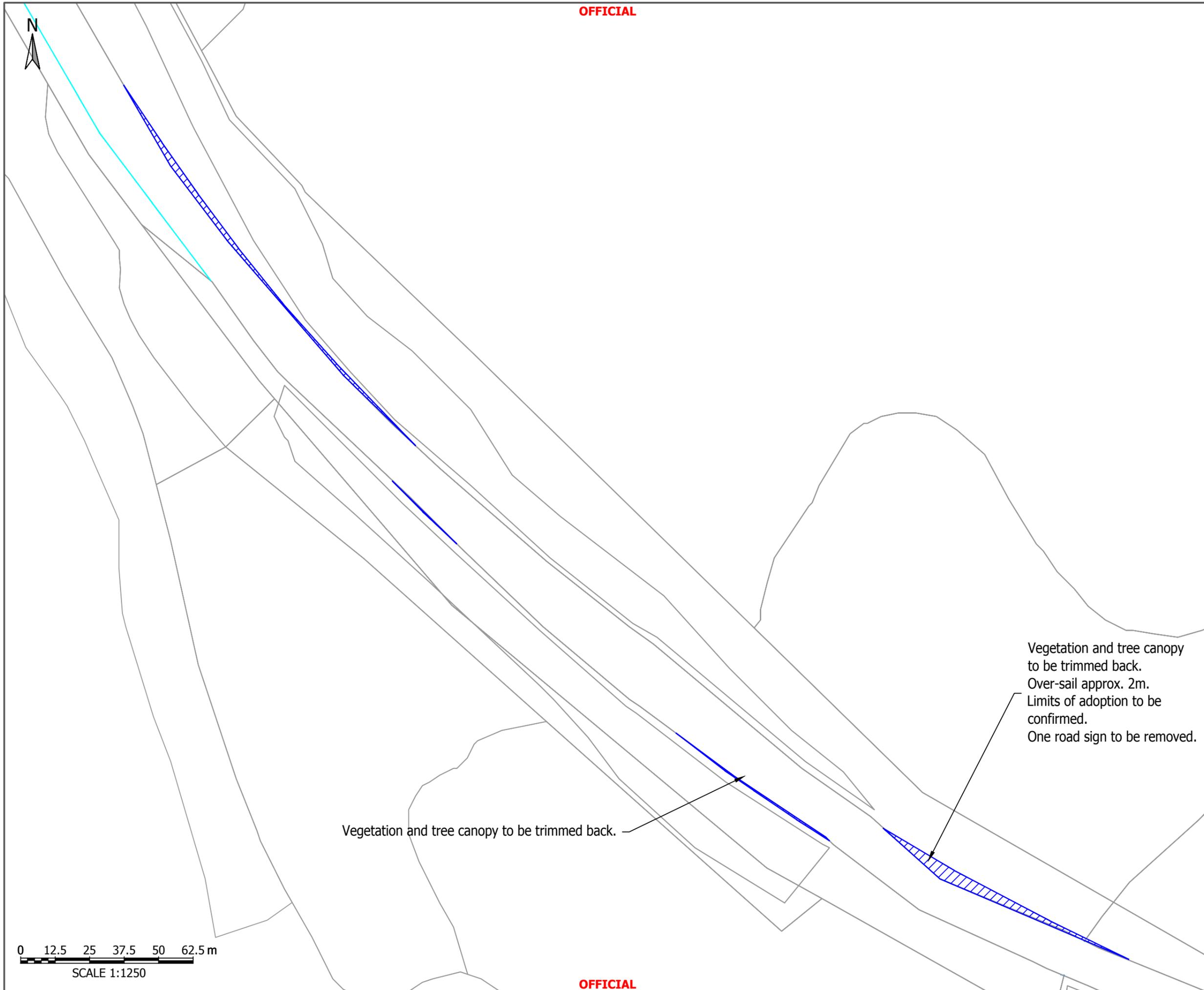


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- Key:
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 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING
 -  INDICATIVE ROAD EDGE



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Client: SSE RENEWABLES

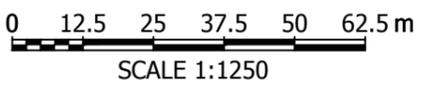
Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI: 14 Location: A87 LEFT BEND SOUTH OF KEPPOCH

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	-	012-2	P02	



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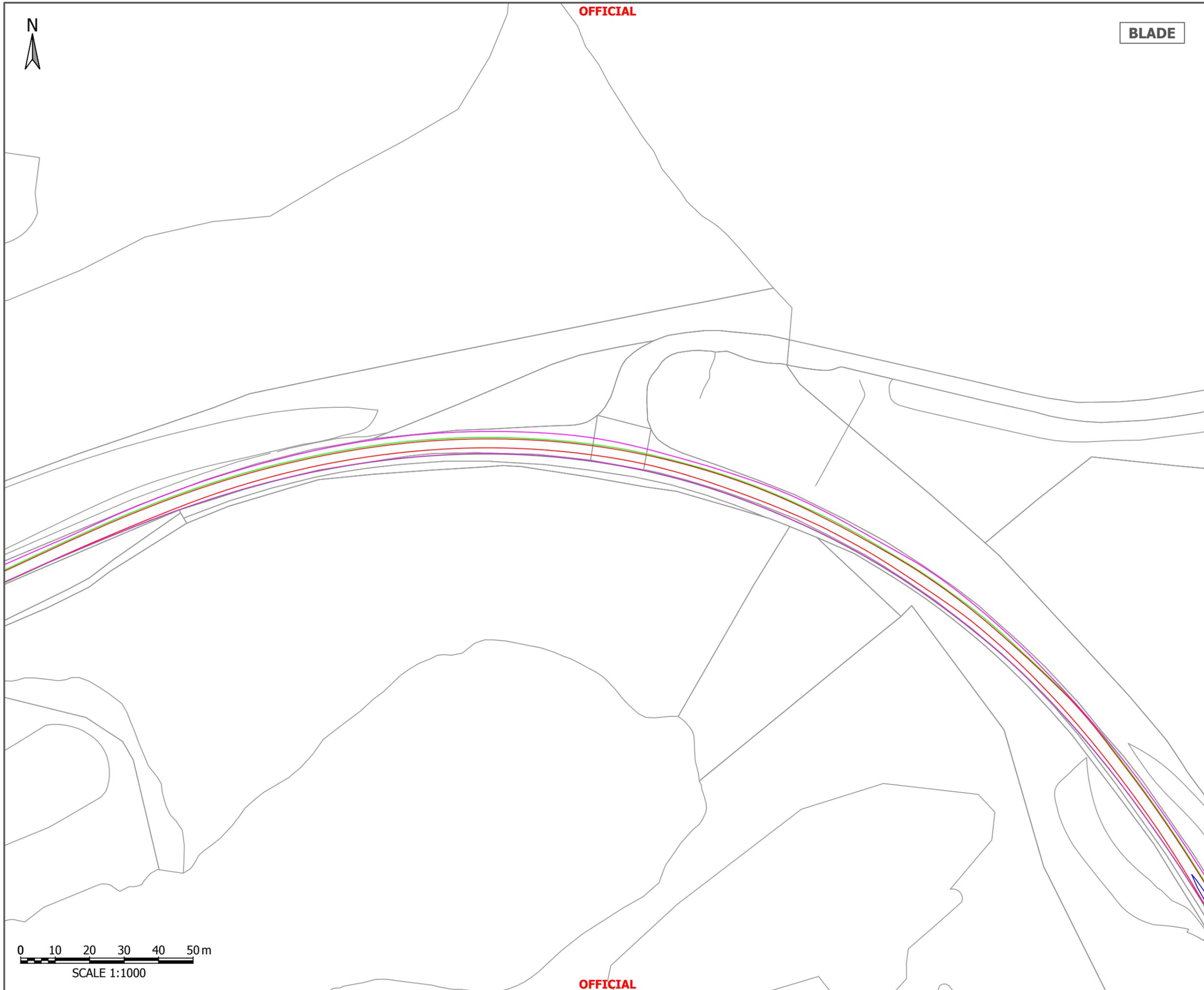


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BLADE

Key:

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENS GAMESA SG155 BLADE & TOWER

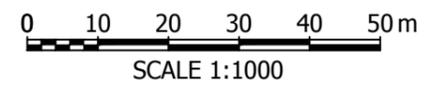
Sheet Title:
SWEEP PATH ASSESSMENT

P01 Location:
16 A87 LEFT BEND WEST OF MORVICH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	013	P02



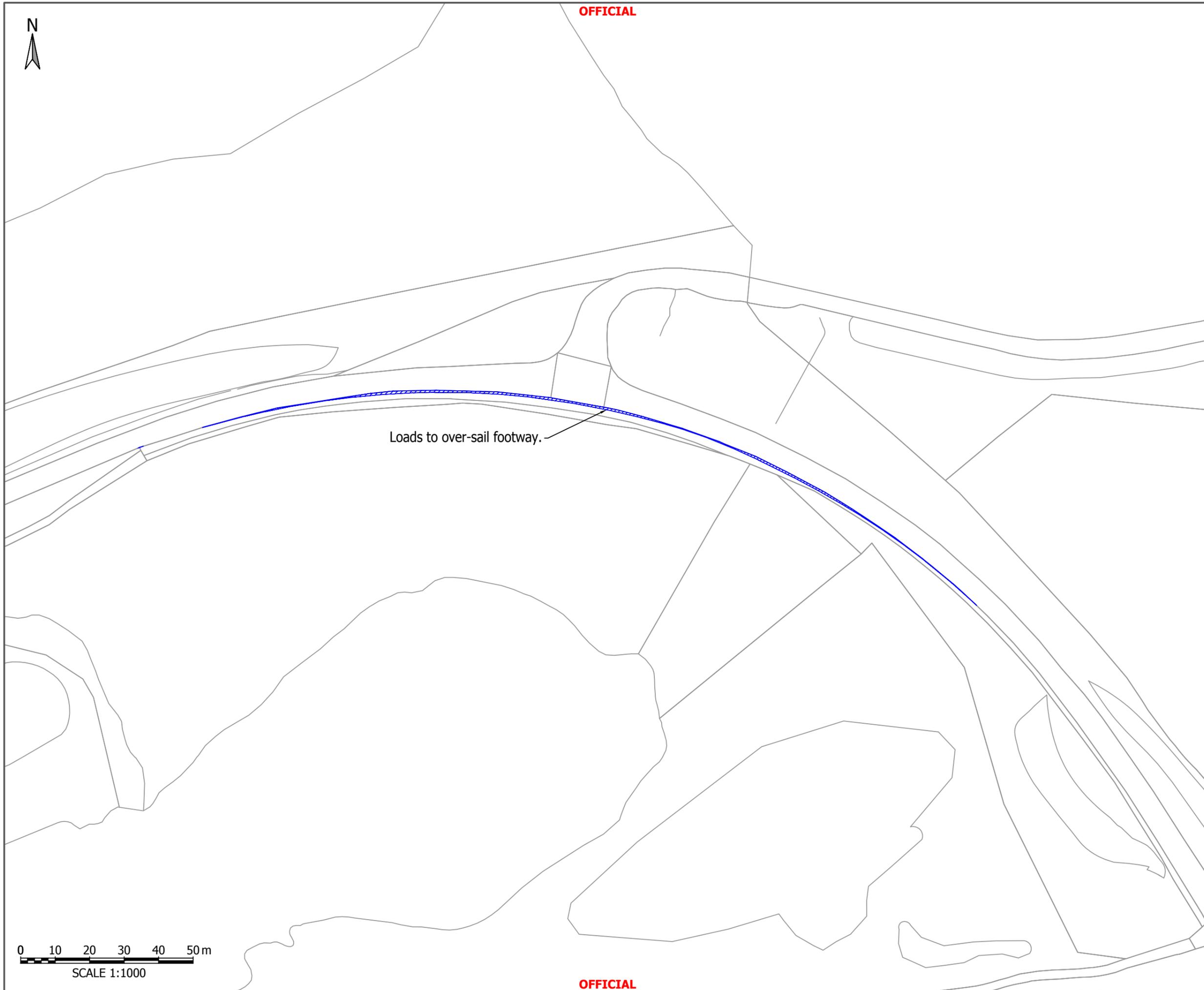
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Key:

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



Loads to over-sail footway.

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

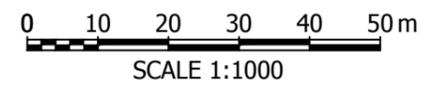
Sheet Title:
REQUIRED REMEDIAL WORKS

P01 Location:
16 A87 LEFT BEND WEST OF MORVICH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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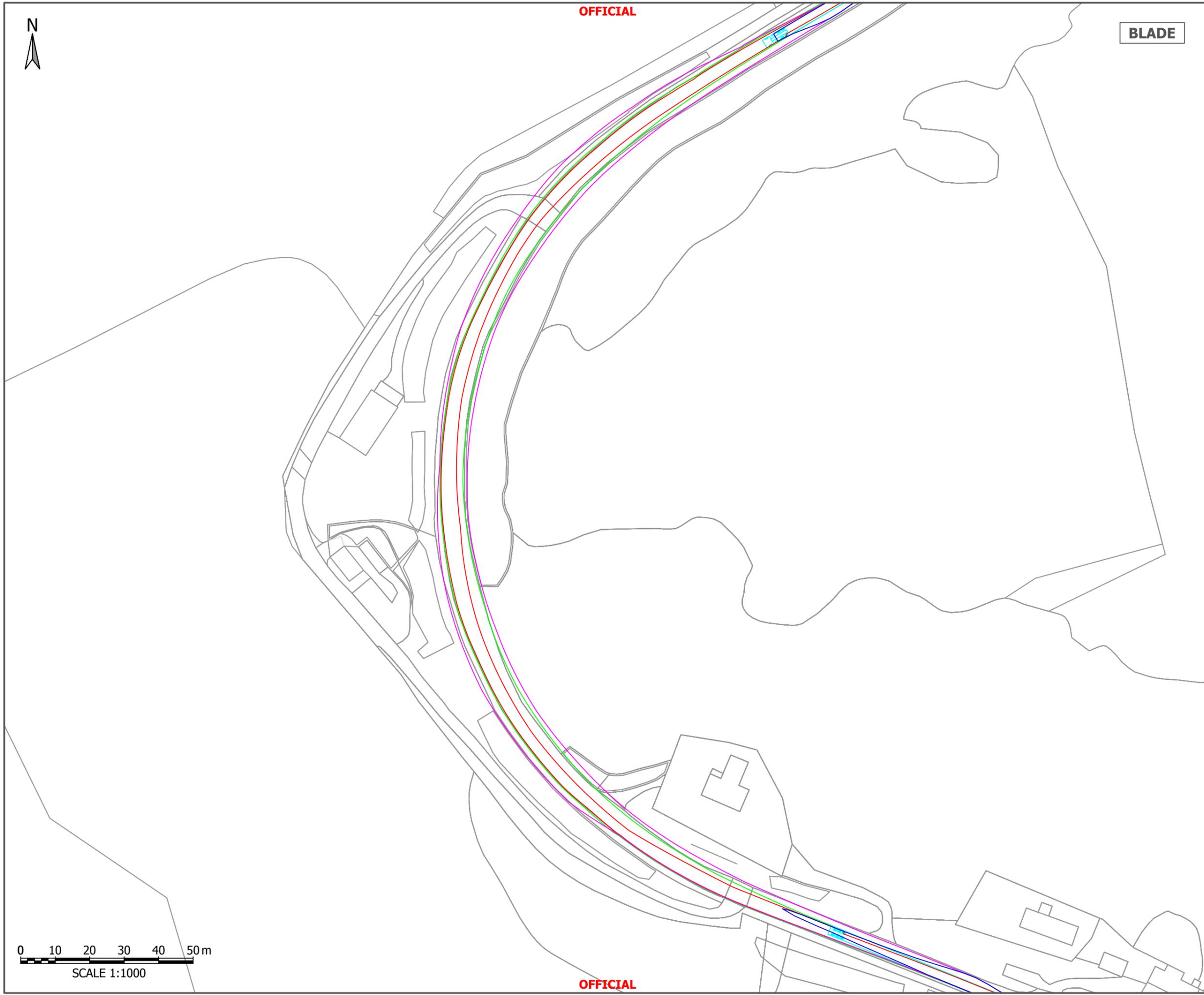


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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

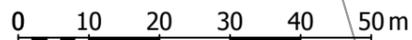
POI Location:
17 A87 LEFT BEND INVERSHIEL

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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REAR WHEEL STEER

Key:

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

Tree canopy to be trimmed back and trees to be confirmed outwith over-sail area during test-run.
Vegetation to be trimmed.
Three chevron signs to be confirmed suitable for blade tip over-sail.
Limits of adoption to be confirmed.

Vegetation and trees to be removed.
One road sign to be removed.
Embankment reprofiling potentially required.
Limits of adoption to be confirmed.

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Rev	Description	Date	Drn / Ck	App
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P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ	MG

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

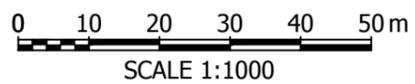
POI: 17 Location: A87 LEFT BEND INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 014-2 P02

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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:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

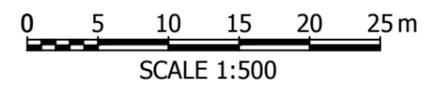
Sheet Title:
 SWEEP PATH ASSESSMENT

Plot Location:
18 A87 RIGHT BEND INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 015	P02



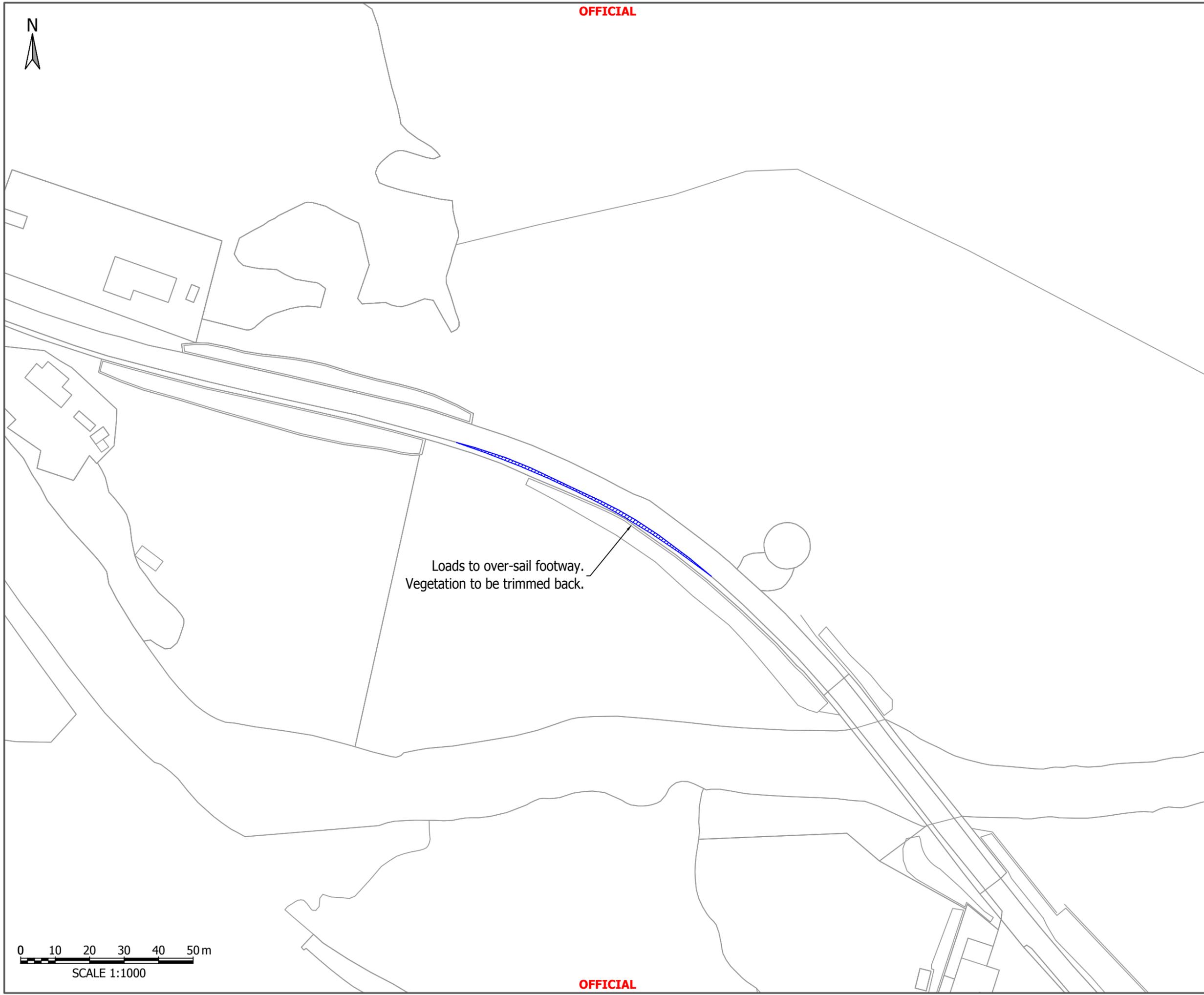
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Key:

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



Loads to over-sail footway.
Vegetation to be trimmed back.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

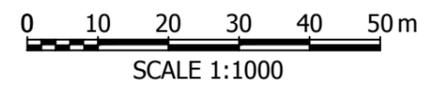
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PC1 Location:
18 A87 RIGHT BEND INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 015-2	P02



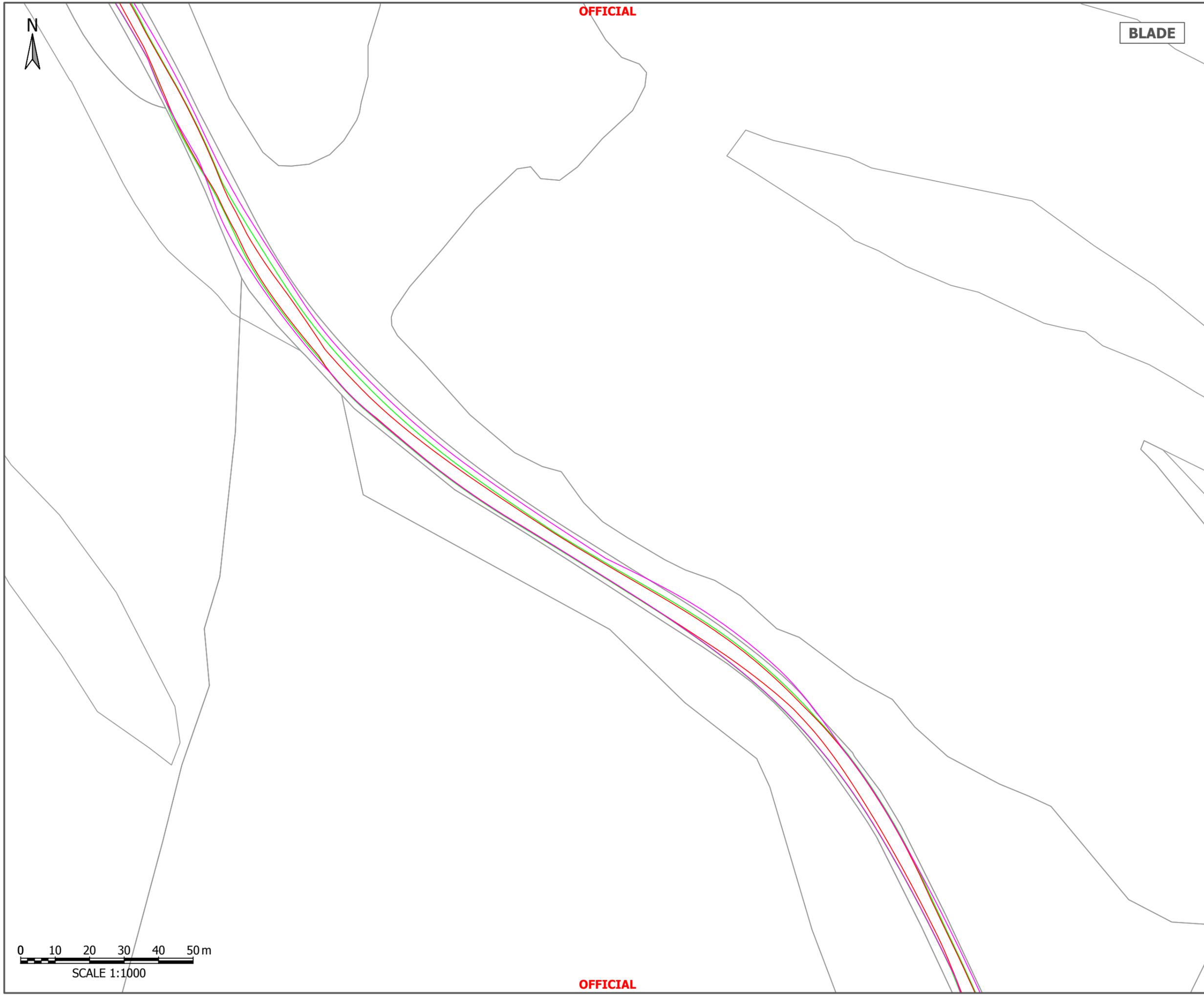
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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

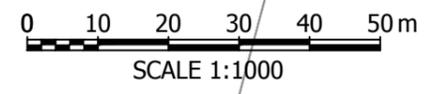
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
19 A87 FIRST SERIES OF BENDS INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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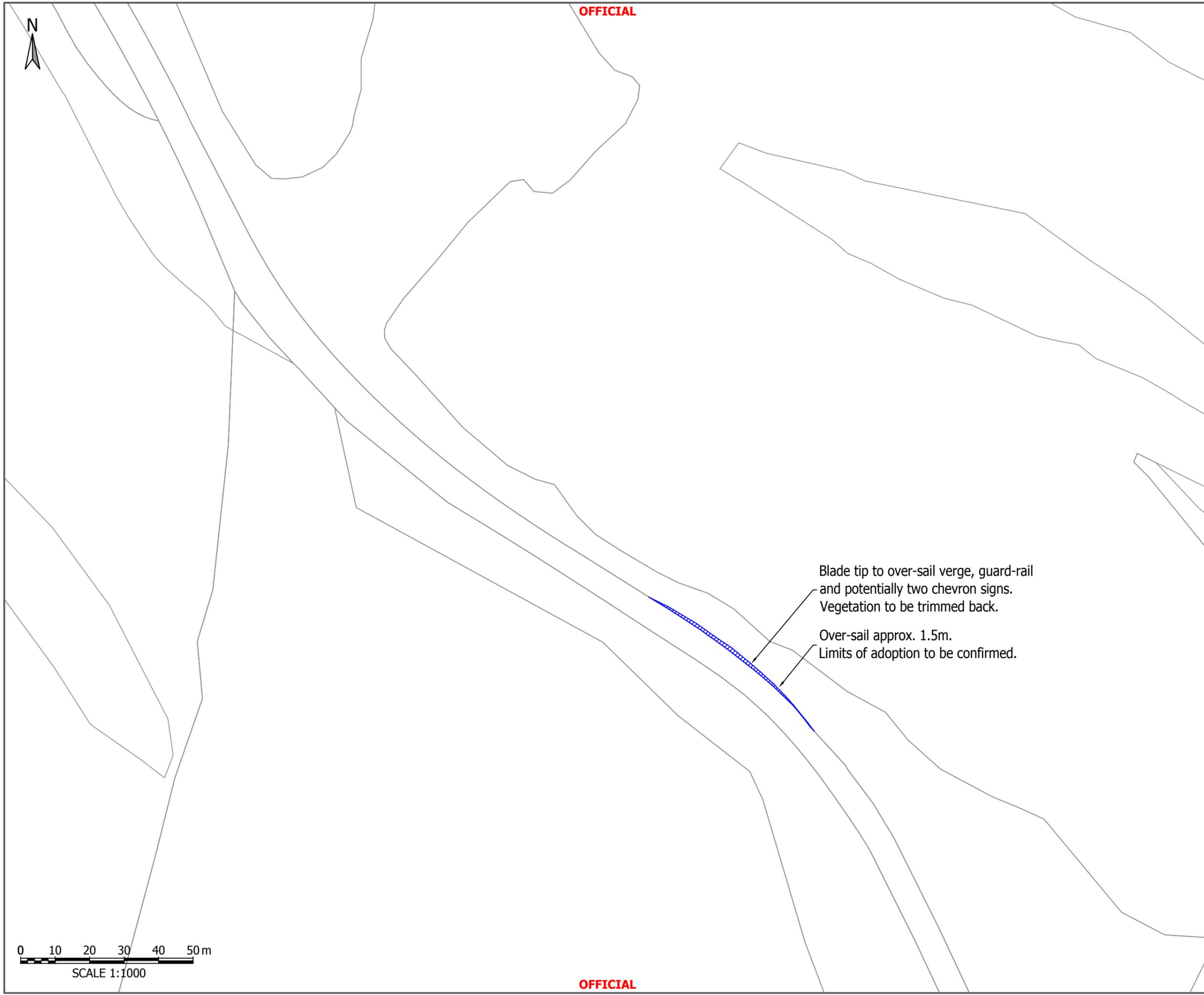


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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING



Blade tip to over-sail verge, guard-rail and potentially two chevron signs. Vegetation to be trimmed back.

Over-sail approx. 1.5m. Limits of adoption to be confirmed.

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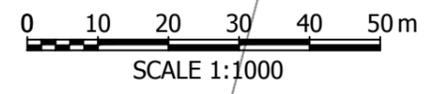
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS

PC1 Location:
19 A87 FIRST SERIES OF BENDS INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

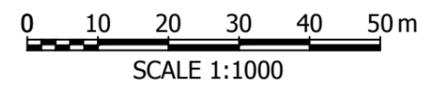
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SWEEP PATH ASSESSMENT

POI Location:
19B A87 SECOND SERIES OF BENDS INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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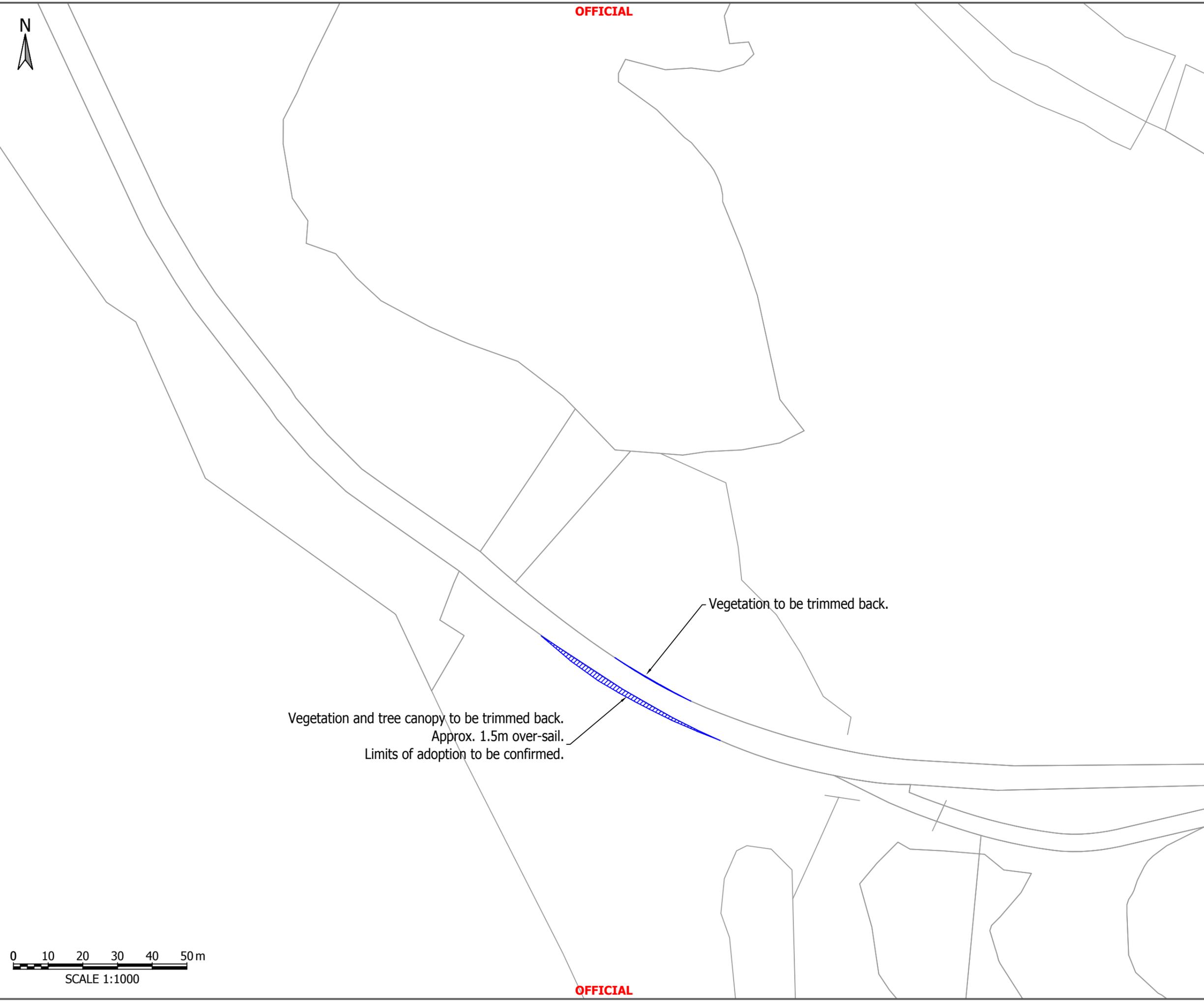


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- Key:
- OVER-SAIL REQUIRED
 - OVER-RUN REQUIRED
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

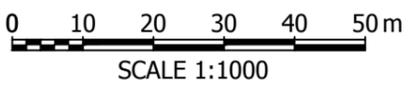
Sheet Title: REQUIRED REMEDIAL WORKS

PC1 Location:
19B A87 SECOND SERIES OF BENDS INVERSHIEL

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

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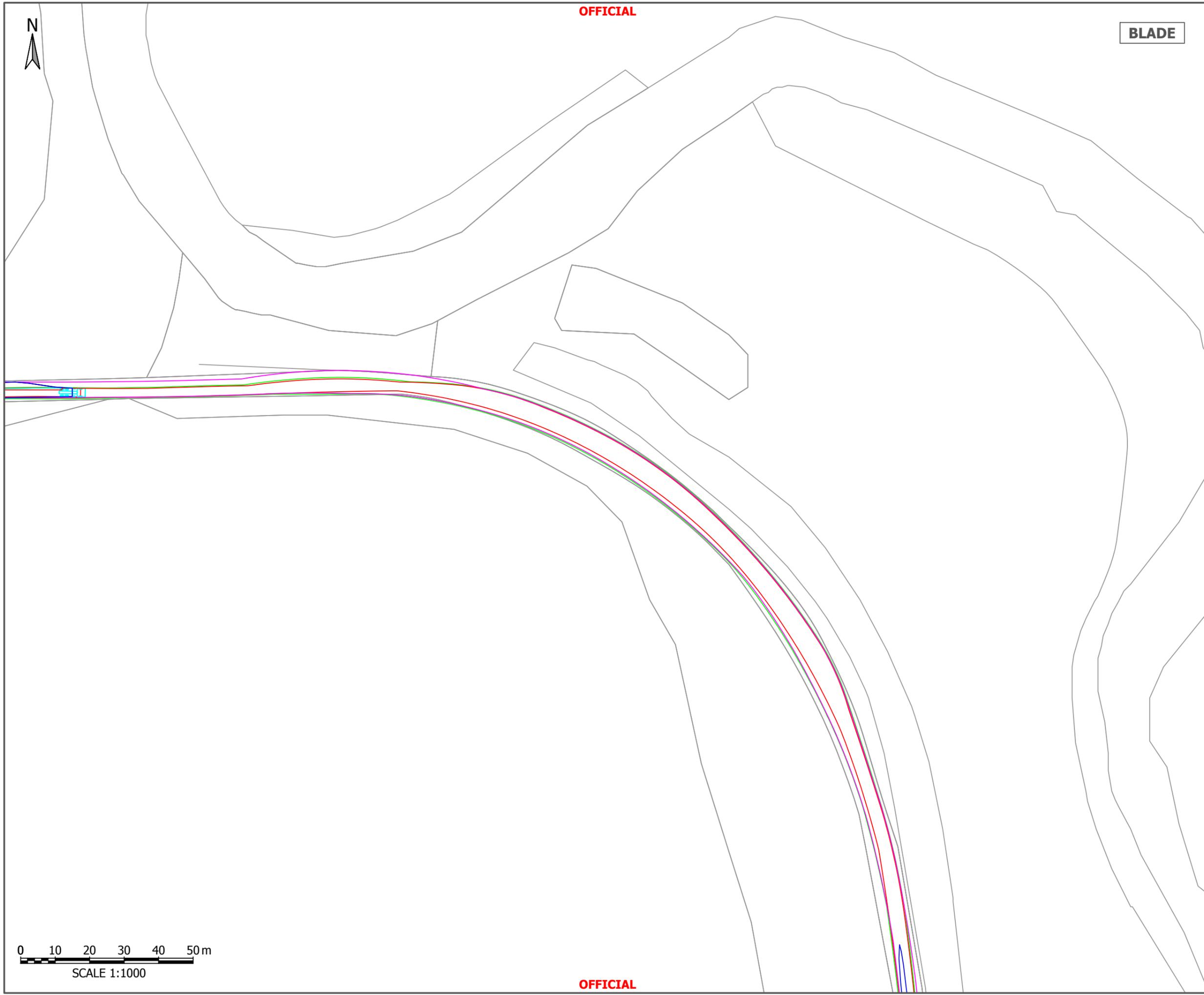
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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

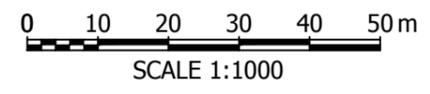
Sheet Title:
 SWEEP PATH ASSESSMENT

P01 Location:
19C A87 RIGHT BEND INVERSHIEL

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

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	016-5	P02



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REAR WHEEL STEER

Key:

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

Vegetation and tree canopy to be trimmed back.

Vegetation and tree canopy to be trimmed back.

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: 19C A87 RIGHT BEND INVERSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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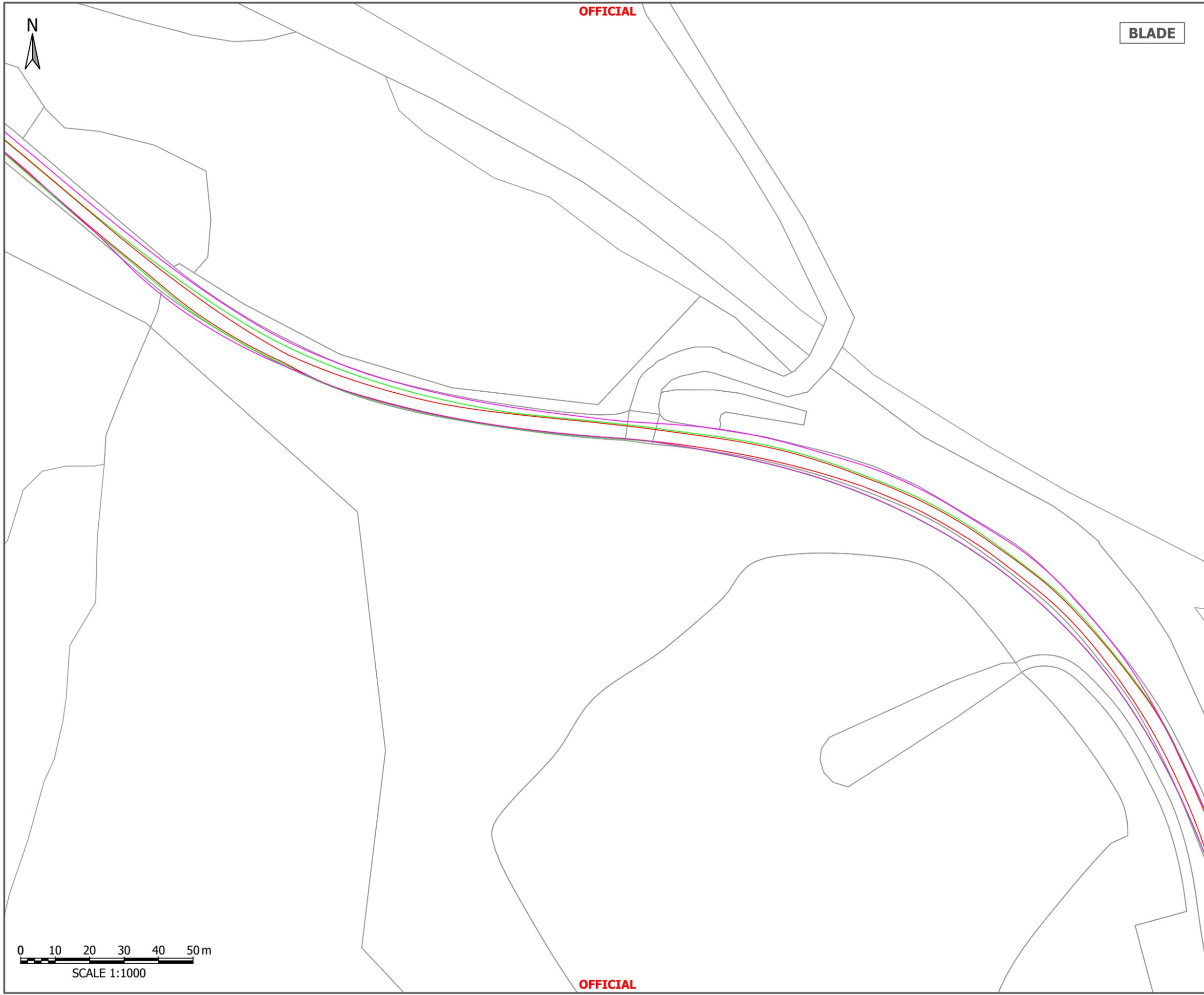


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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

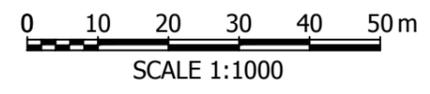
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
20 A87 FIRST SERIES OF BENDS - ACHNAGART FARM

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

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Key:

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

Blade tip to over-sail bollards.

Vegetation to be trimmed back.

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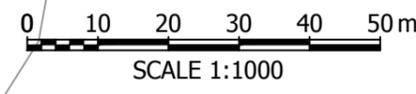
Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS
 P01 Location
20 A87 FIRST SERIES OF BENDS - ACHNAGART FARM

Model Reference		DDP IDP Reference		LOD/LGI			
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Scale @ A3	Suitability
A117008	LJ	Mar '21	MG	Mar '21	JD	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
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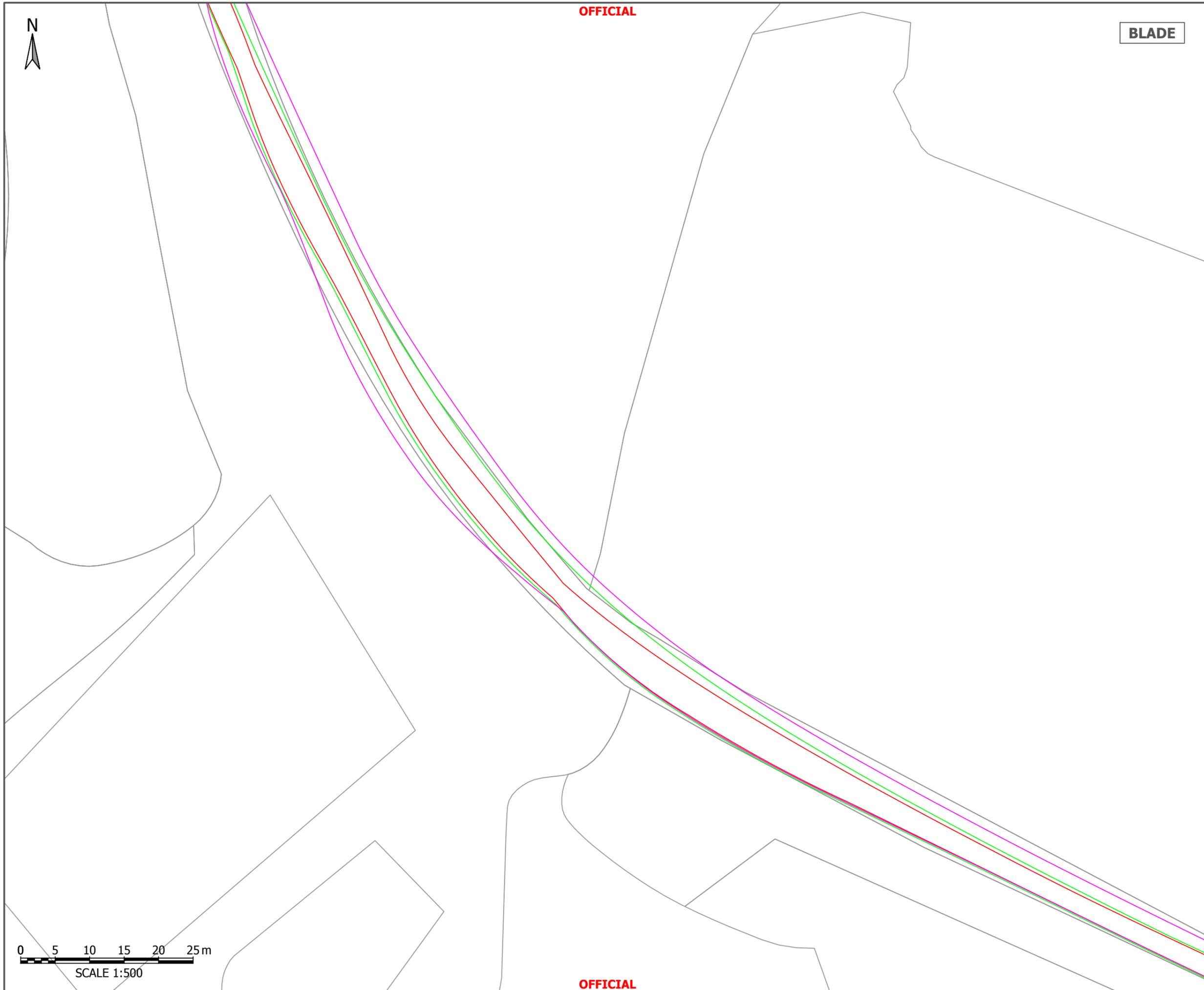


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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

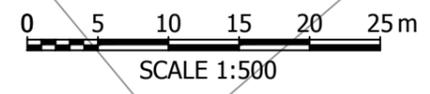
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 SWEEP PATH ASSESSMENT

POI Location:
20 A87 SECOND SERIES OF BENDS- ACHNAGART FARM

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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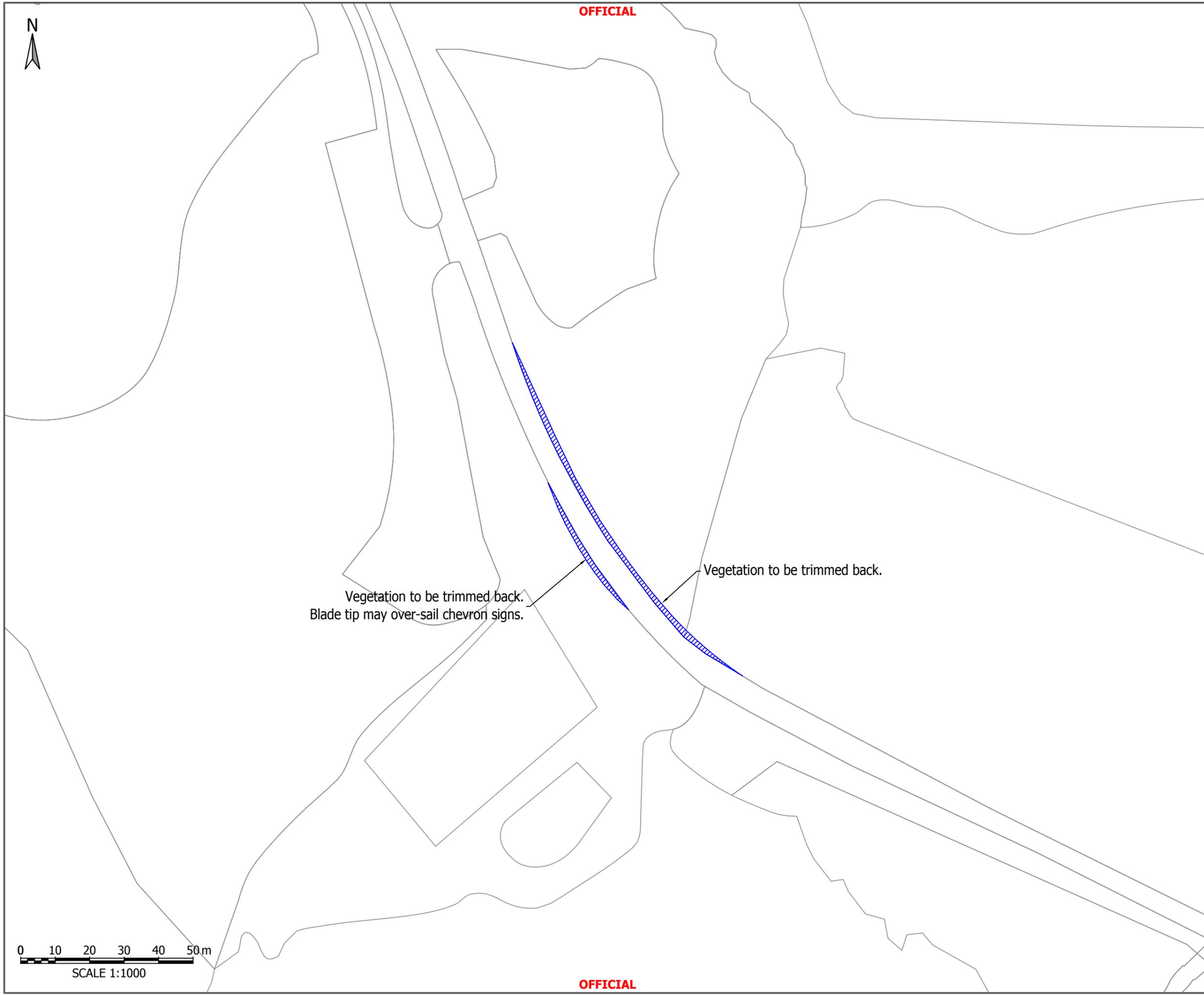
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Key:

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



Vegetation to be trimmed back.
Blade tip may over-sail chevron signs.

Vegetation to be trimmed back.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

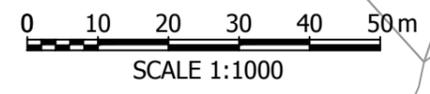
Sheet Title: REQUIRED REMEDIAL WORKS

POI	Location
20	A87 SECOND SERIES OF BENDS- ACHNAGART FARM

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	Stability
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Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	017-4	P02



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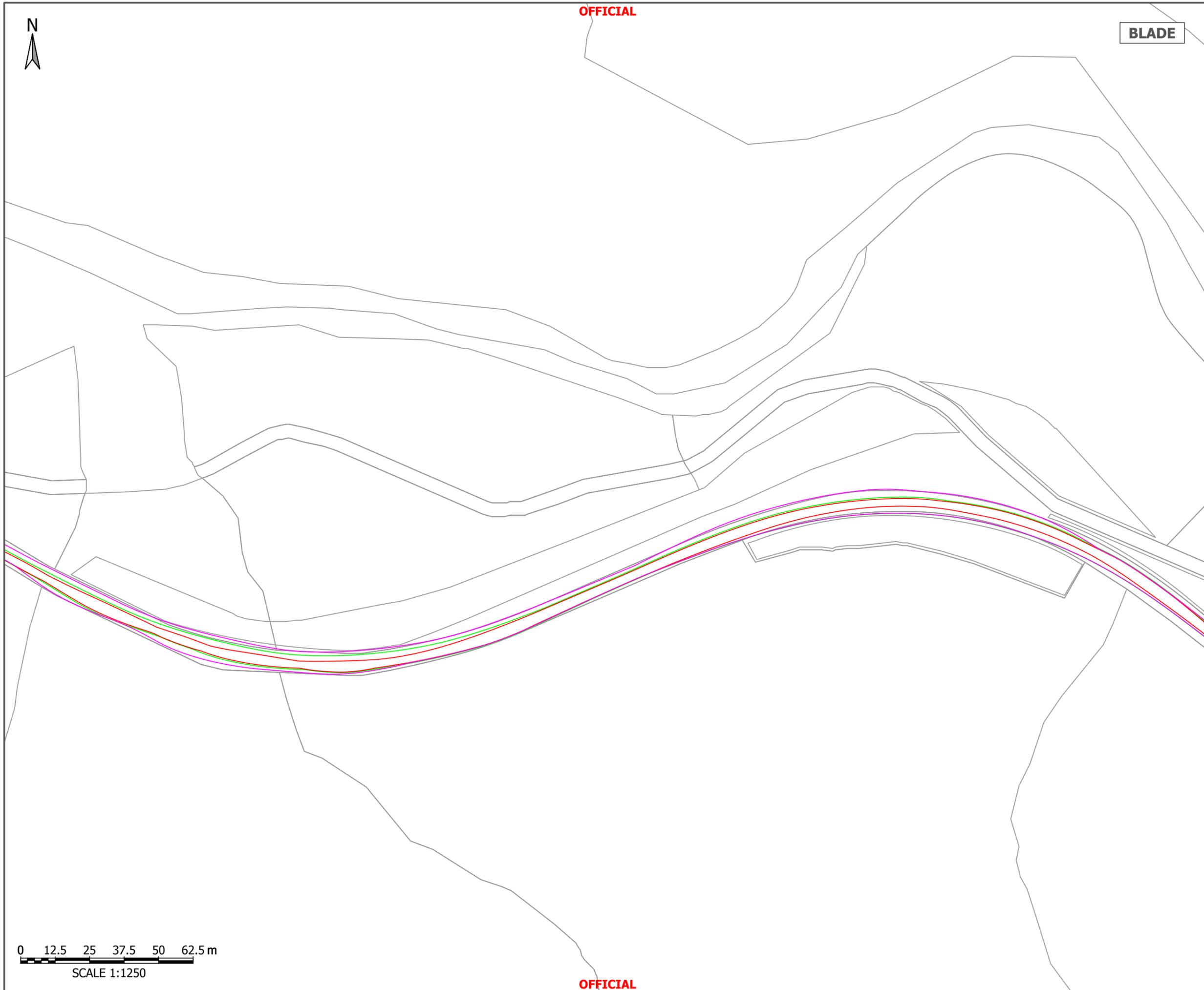


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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
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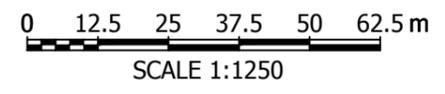
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
21 A87 SERIES OF BENDS GLENSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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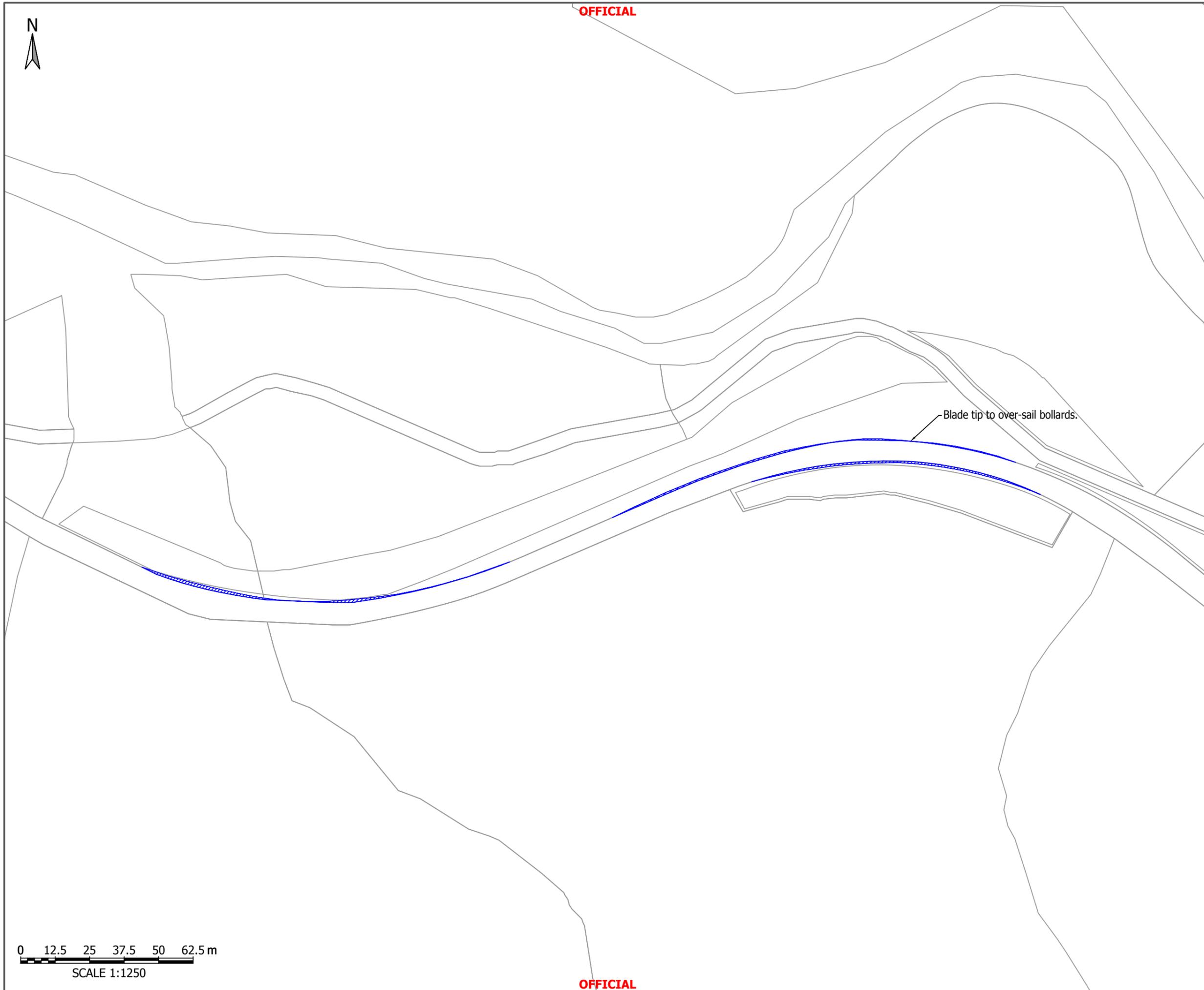
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Key:

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-  OVER-RUN REQUIRED
-  ORDNANCE SURVEY MAPPING



Blade tip to over-sail bollards.

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Client:
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Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

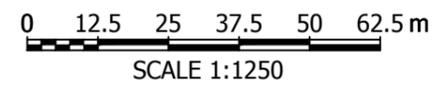
POI	Location
21	A87 SERIES OF BENDS GLENSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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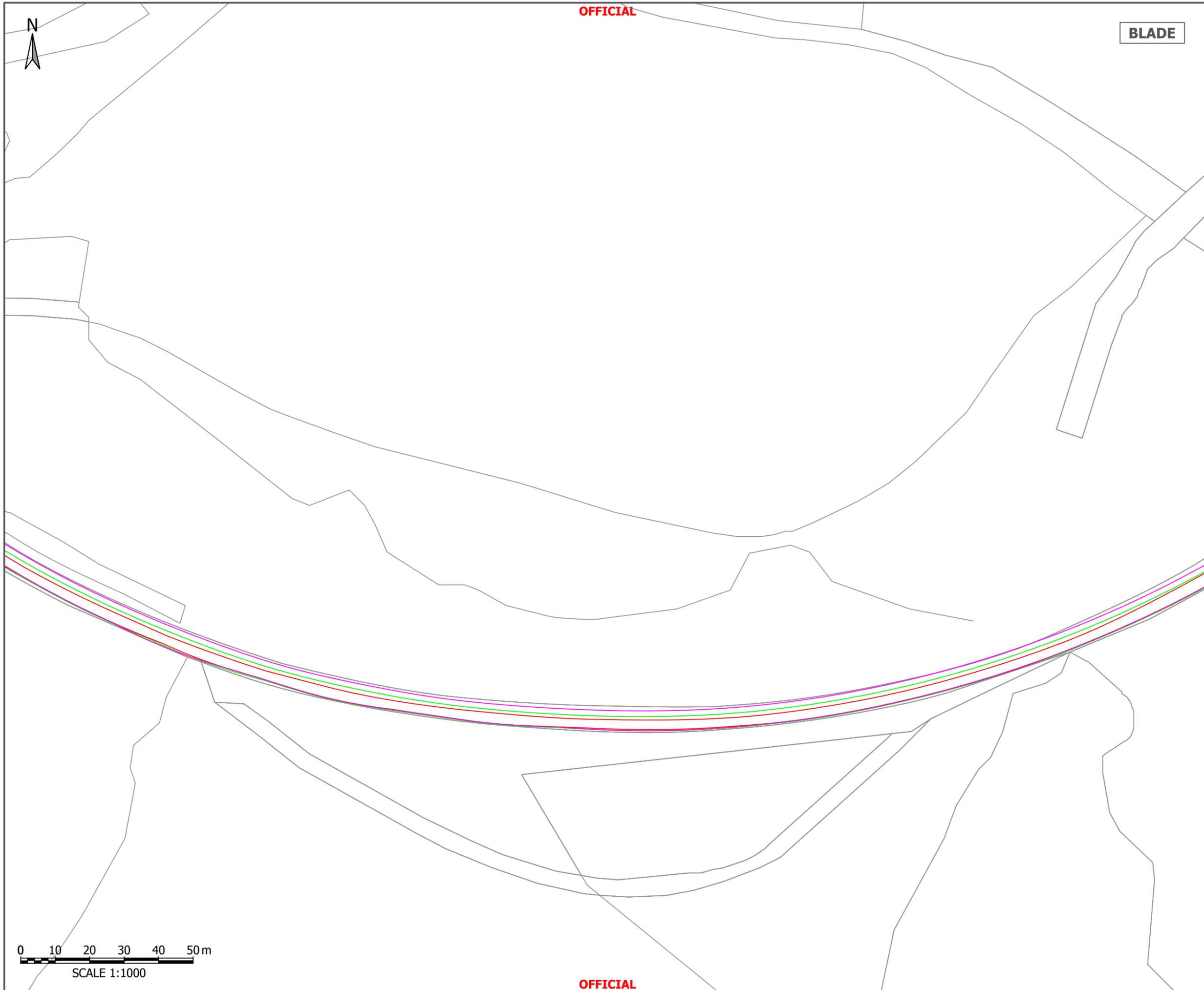


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BLADE

Key:

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



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Client:
SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

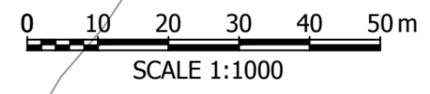
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
21 A87 SERIES OF BENDS GLENSHIEL

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	018-3	P02



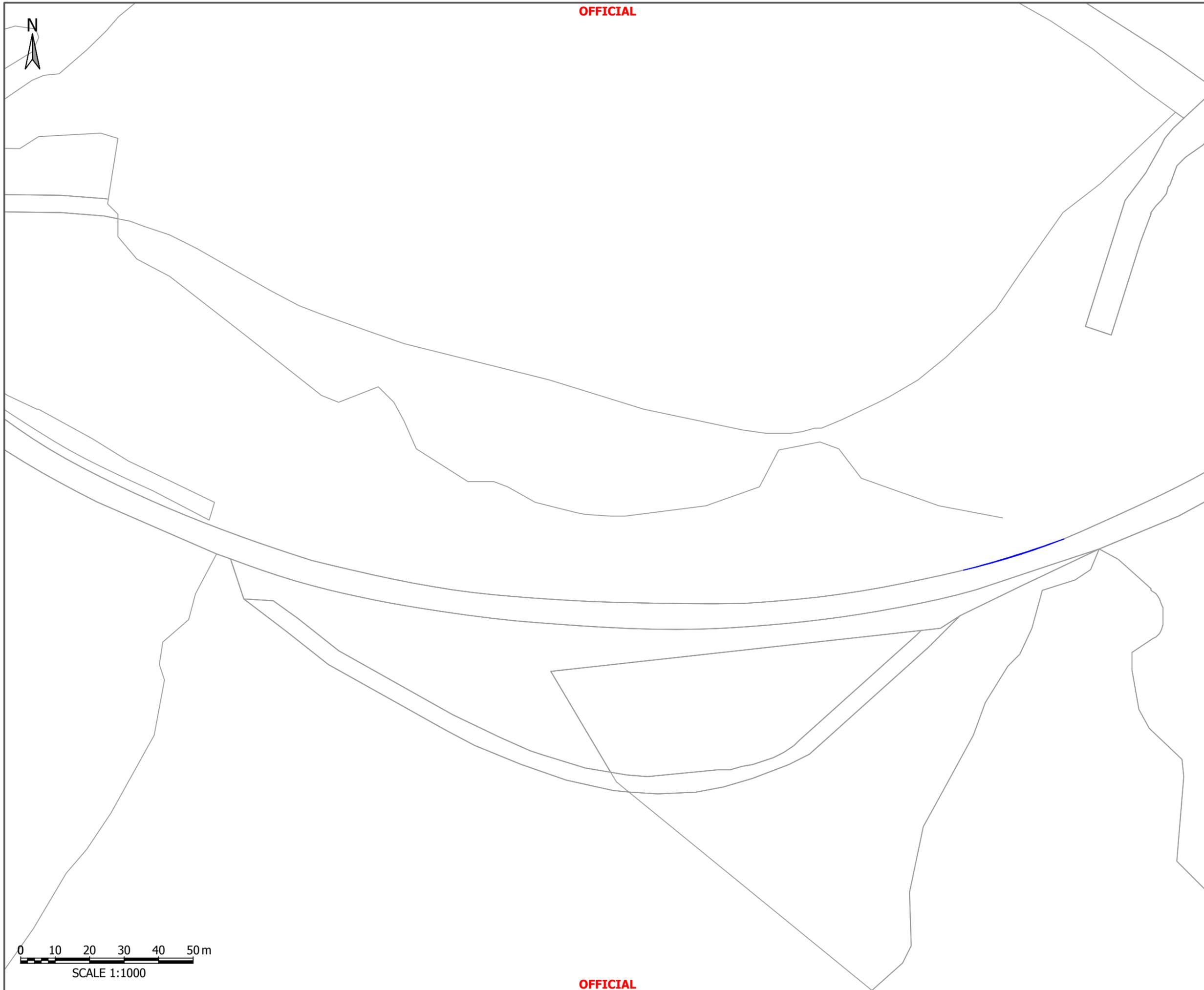
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Key:

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



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Client: SSE RENEWABLES

Project Name:
BHLARAIH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

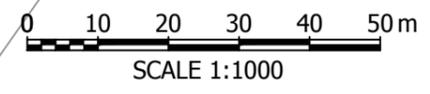
Sheet Title: REQUIRED REMEDIAL WORKS

POI	Location
21	A87 SECOND SERIES OF BENDS GLENSHIEL

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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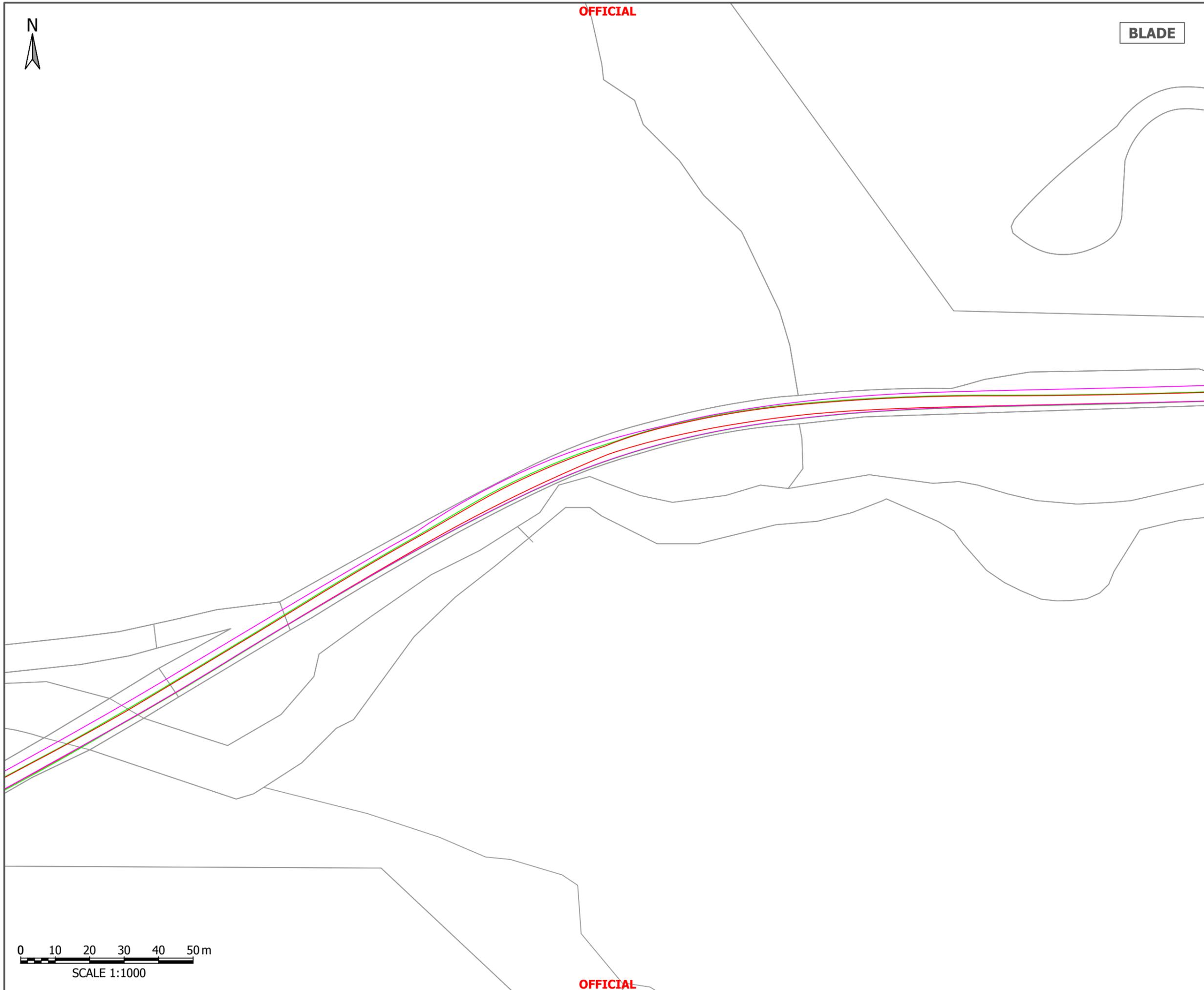


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BLADE

Key:

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



NO MITIGATION REQUIRED

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SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
22 A87 RIGHT BEND GLENSHIEL

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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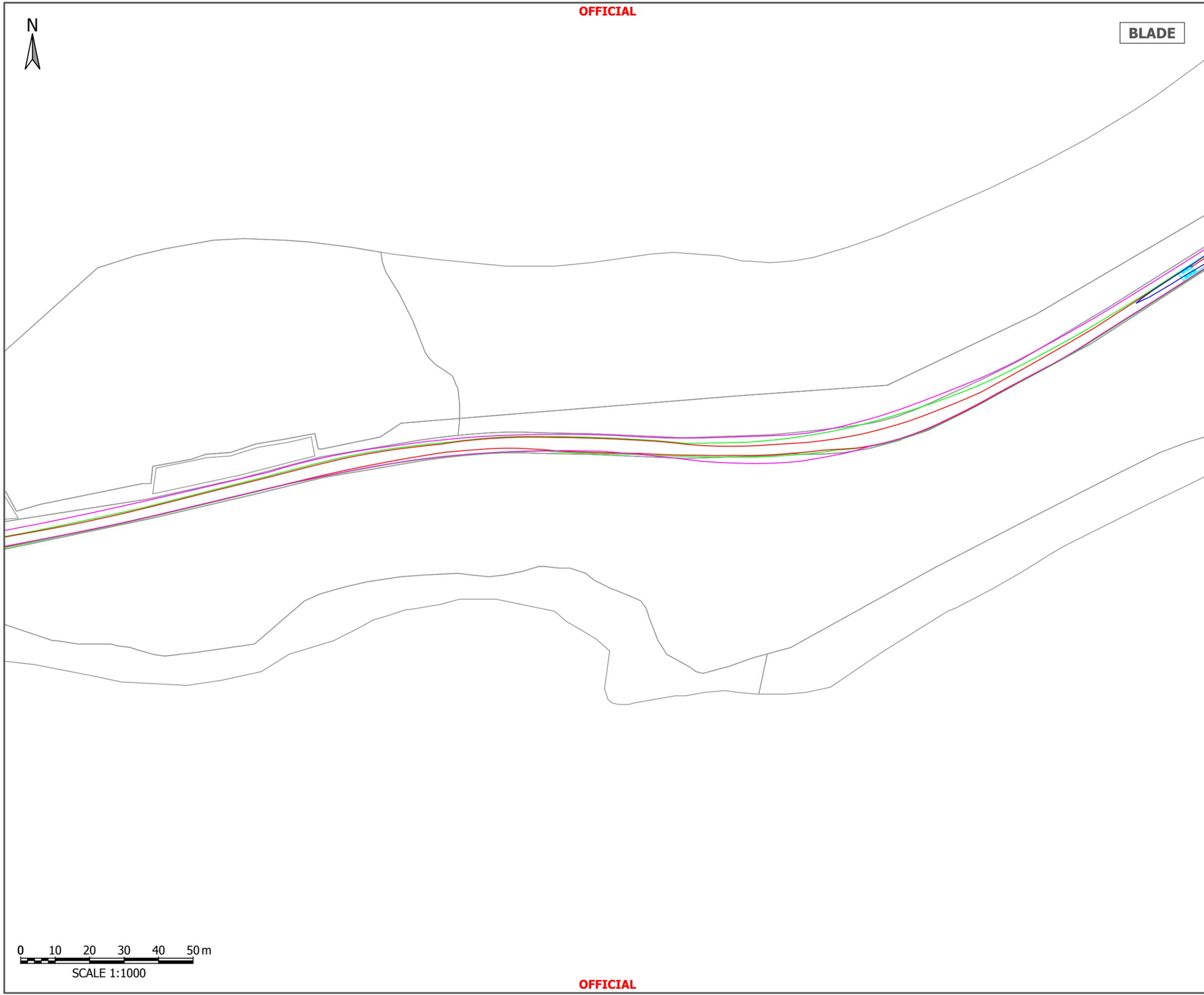
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BLADE

Key:

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



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Client: SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

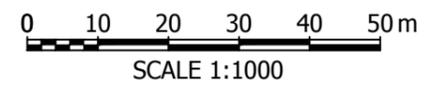
Sheet Title:
 SWEPT PATH ASSESSMENT

P01 Location:
23 A87 SERIES OF BENDS APPR. GLENSHIEL FOREST

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Key:

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

Approx. 1.7m over-sail.
Limits of adoption to be confirmed.

Distance to stone wall to be confirmed during test-run.
Blade-web may over-sail

Blade tip to over-sail barrier and one chevron sign.
Approx. 2.4m over-sail.
Limits of adoption to be confirmed.

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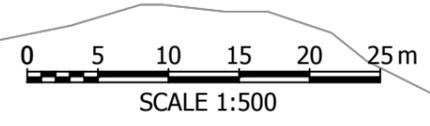
Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PC1 Location:
23 A87 SERIES OF BENDS APPR. GLENSHIEL FOREST

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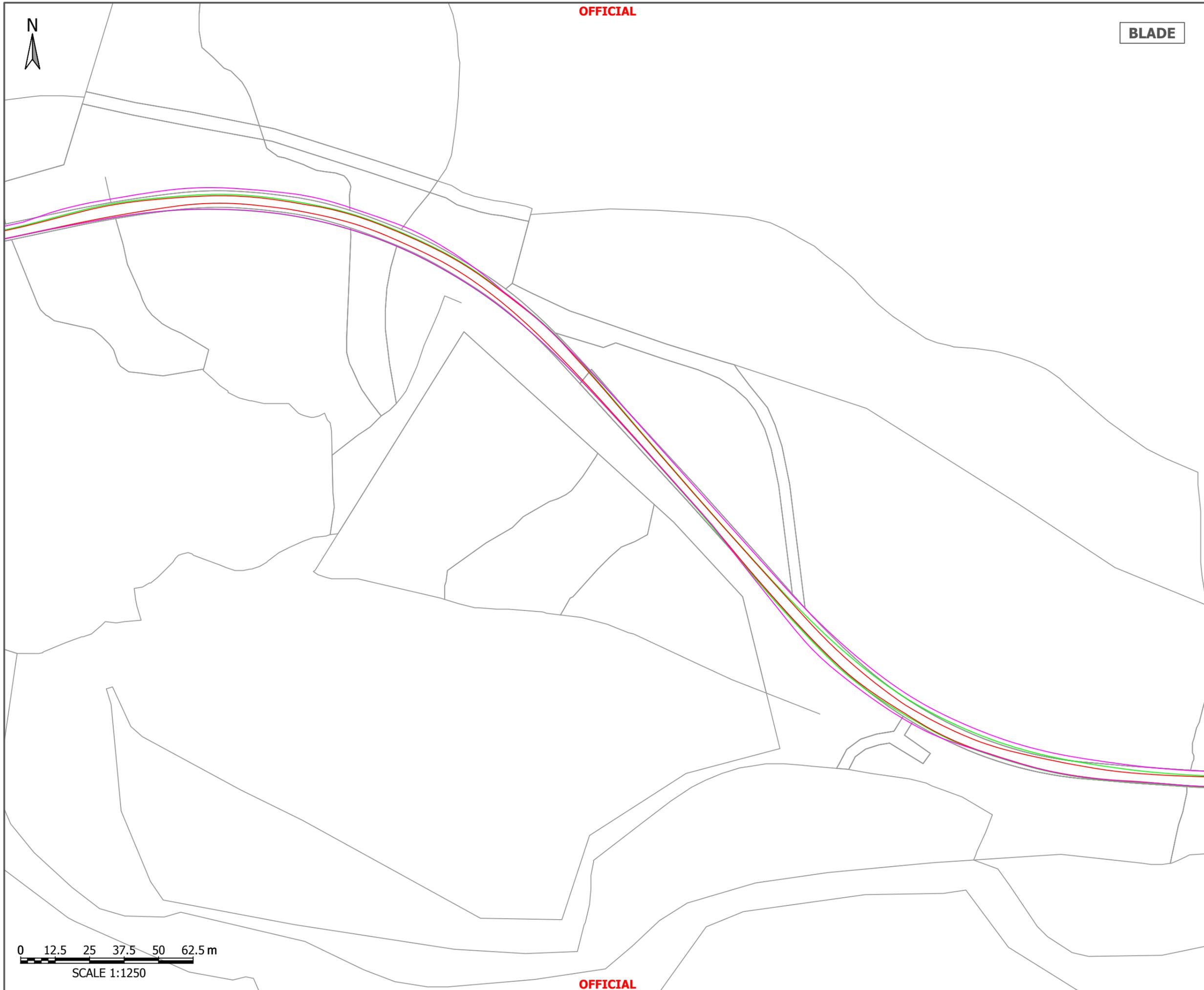
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Key:

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

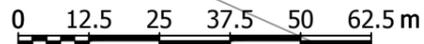
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23 A87 2ND SERIES OF BENDS APPR. GLENSHIEL FORE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Blade tip to over-sail bollards and two sets of chevron signs.
Over-sail approx 1.35m

Trailer and load to over-sail newly installed safety barrier.
Height clearances to be confirmed suitable during test-run.

Tree canopy to be trimmed back.
Blade-tip to over-sail one snow pole, seven bollards, and one chevron sign.
Over-sail approx. 2.2m.
Limits of adoption to be confirmed.

Tree canopy to be trimmed back.
Over-sail approx 2.1m.
Limits of adoption to be confirmed.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

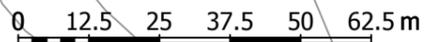
POI Location:
23 A87 2ND SERIES OF BENDS APPR. GLENSHIEL FOREST

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

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

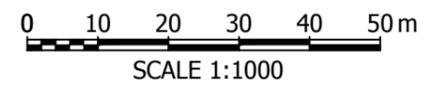
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
24 A87 SERIES OF BENDS GLENSHIEL FOREST

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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

Blade tip to over-sail bollards and tree canopy and vegetation to be trimmed back.
Three sets of chevrons to be over-sailed.

Vegetation to be cleared.
Over-sail area within 2m from OS road edge.
Limits of adoption to be confirmed.

Tree canopy to be trimmed back.
Over-sail approx. 2.3m.
Limits of adoption to be confirmed.

Blade tip to over-sail bollards and one set of chevrons to be over-sailed.

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Client:
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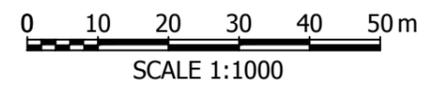
Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN: 24 Location: A87 SERIES OF BENDS GLENSHIEL FOREST

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

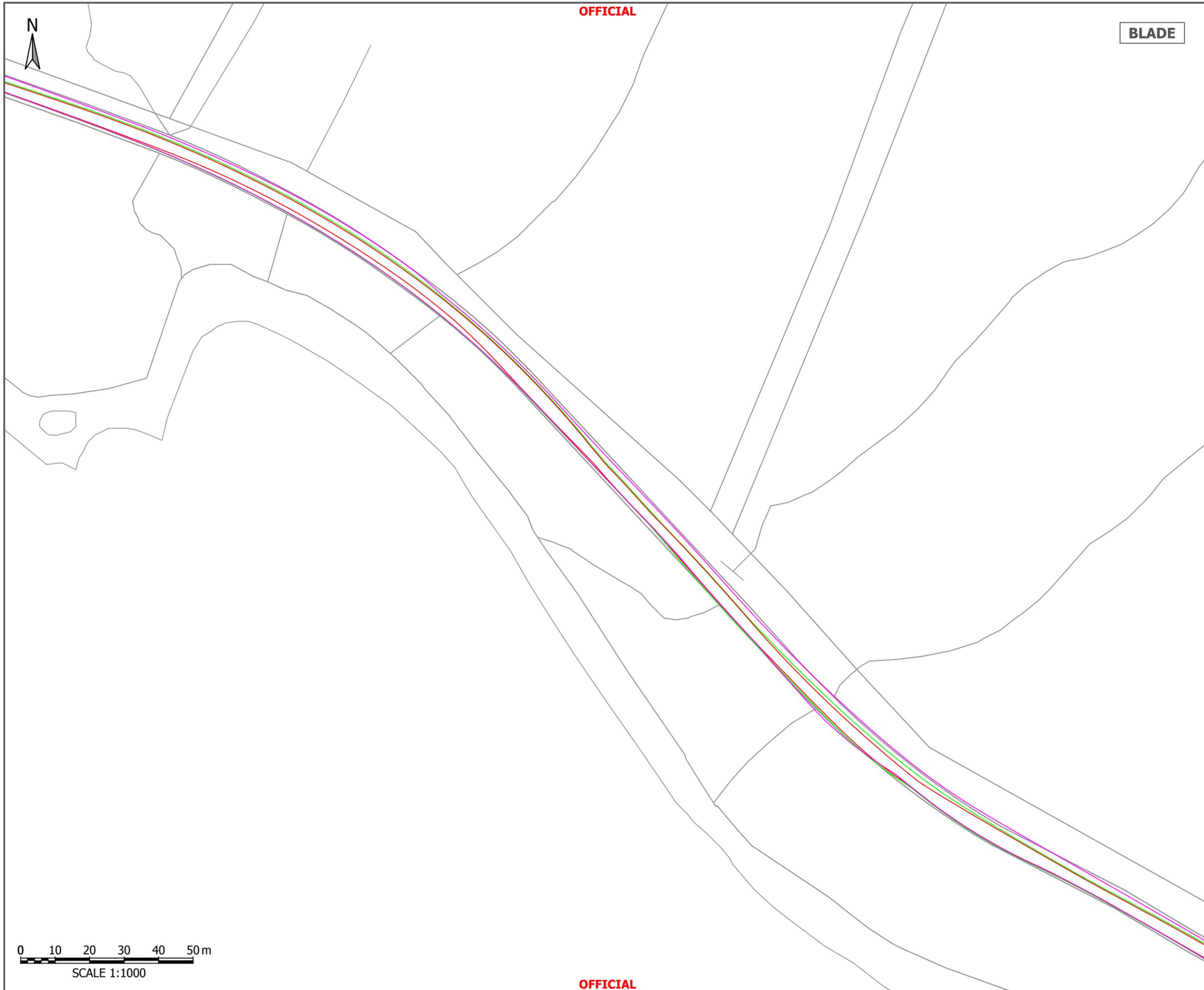


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- Key:
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

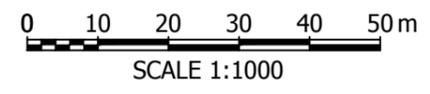
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 SWEPT PATH ASSESSMENT

POI Location:
24 A87 SECOND SERIES OF BENDS GLENSHIEL FOREST

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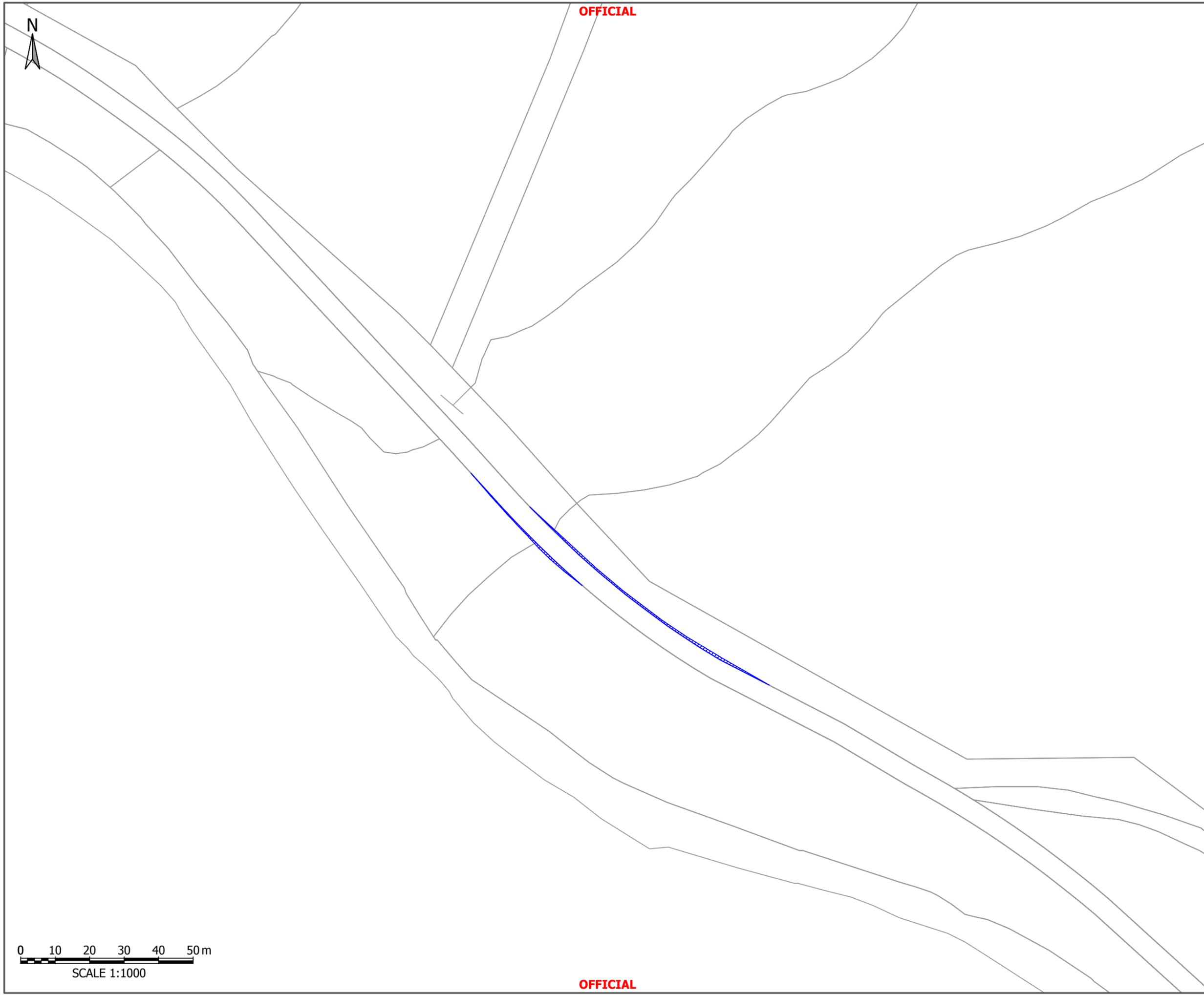
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Key:

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- OVER-RUN REQUIRED
- ORDNANCE SURVEY MAPPING



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Client: SSE RENEWABLES

Project Name:
BHLARAIH EXT WIND FARM

Components:
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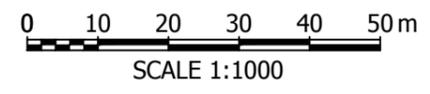
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PC1 Location: **A87 SECOND SERIES OF BENDS GLENSHIEL FOREST**

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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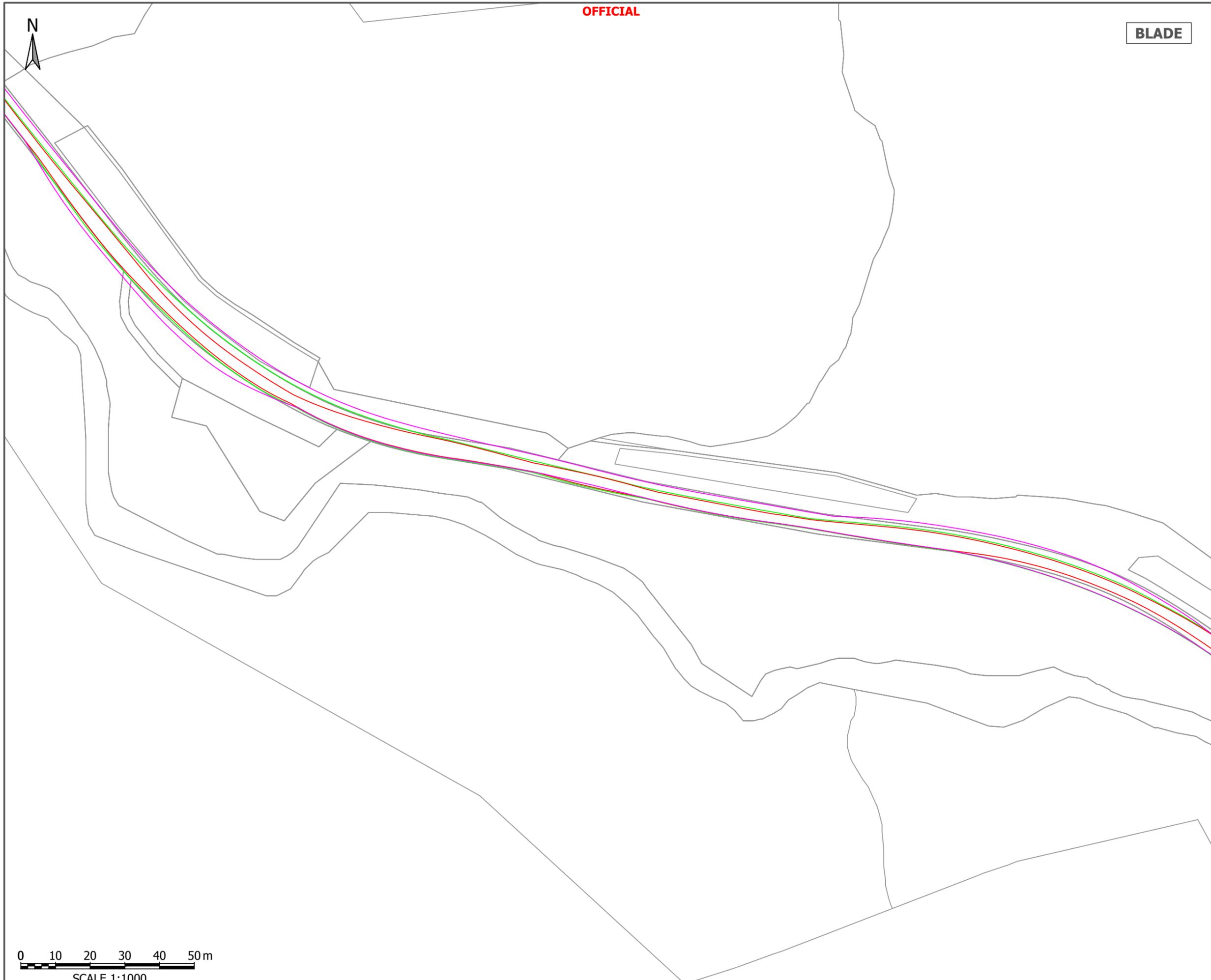
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Key:

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- ORDNANCE SURVEY MAPPING



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
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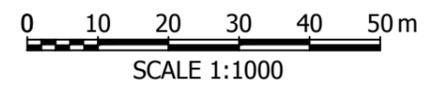
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
25 A87 SERIES OF BENDS APPR. MEALL a' CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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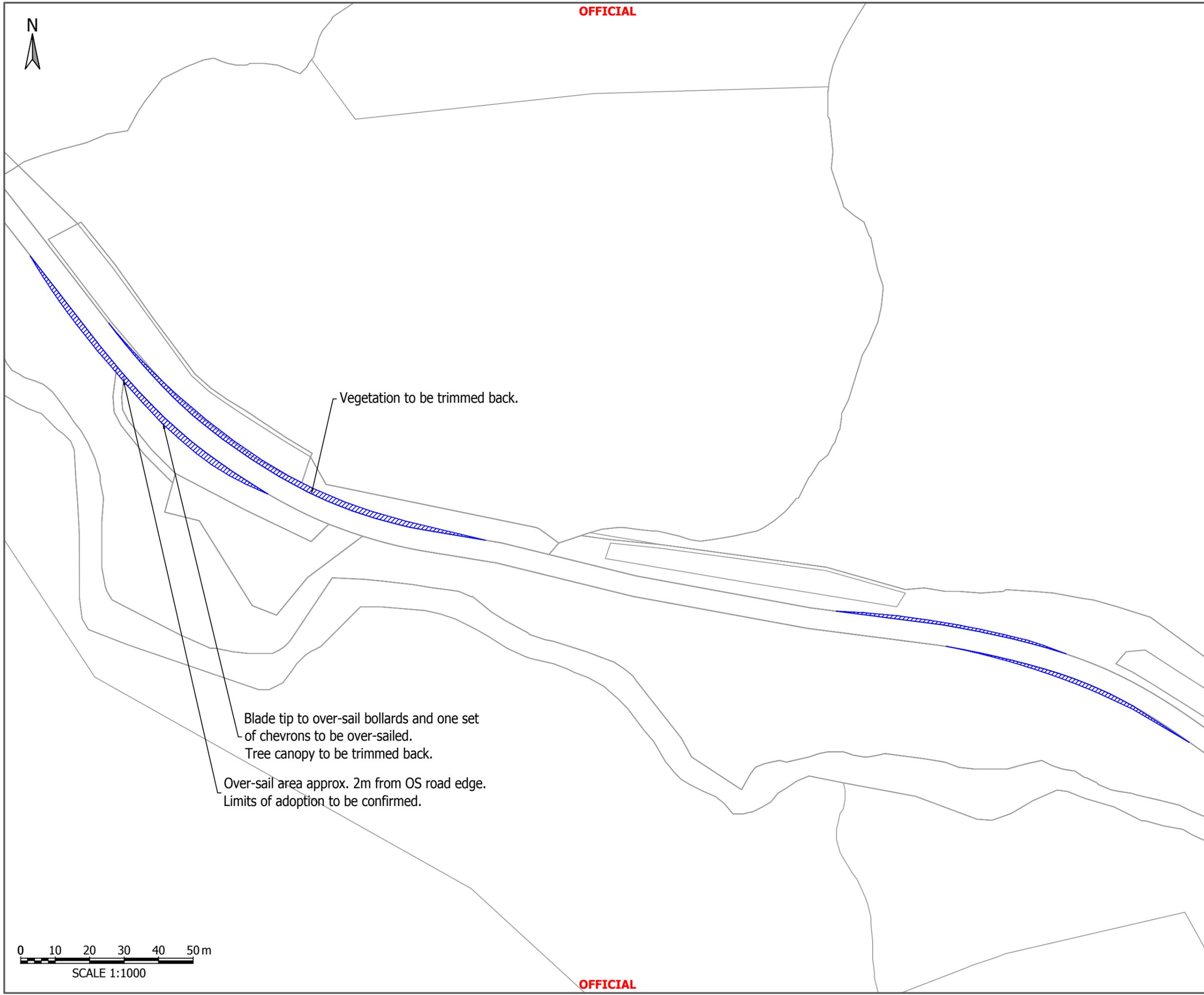
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Key:

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



Vegetation to be trimmed back.

Blade tip to over-sail bollards and one set of chevrons to be over-sailed.
Tree canopy to be trimmed back.

Over-sail area approx. 2m from OS road edge.
Limits of adoption to be confirmed.

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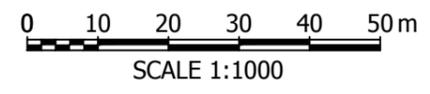
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS

POI Location:
25 A87 SERIES OF BENDS APPR. MEALL a' CHARRA

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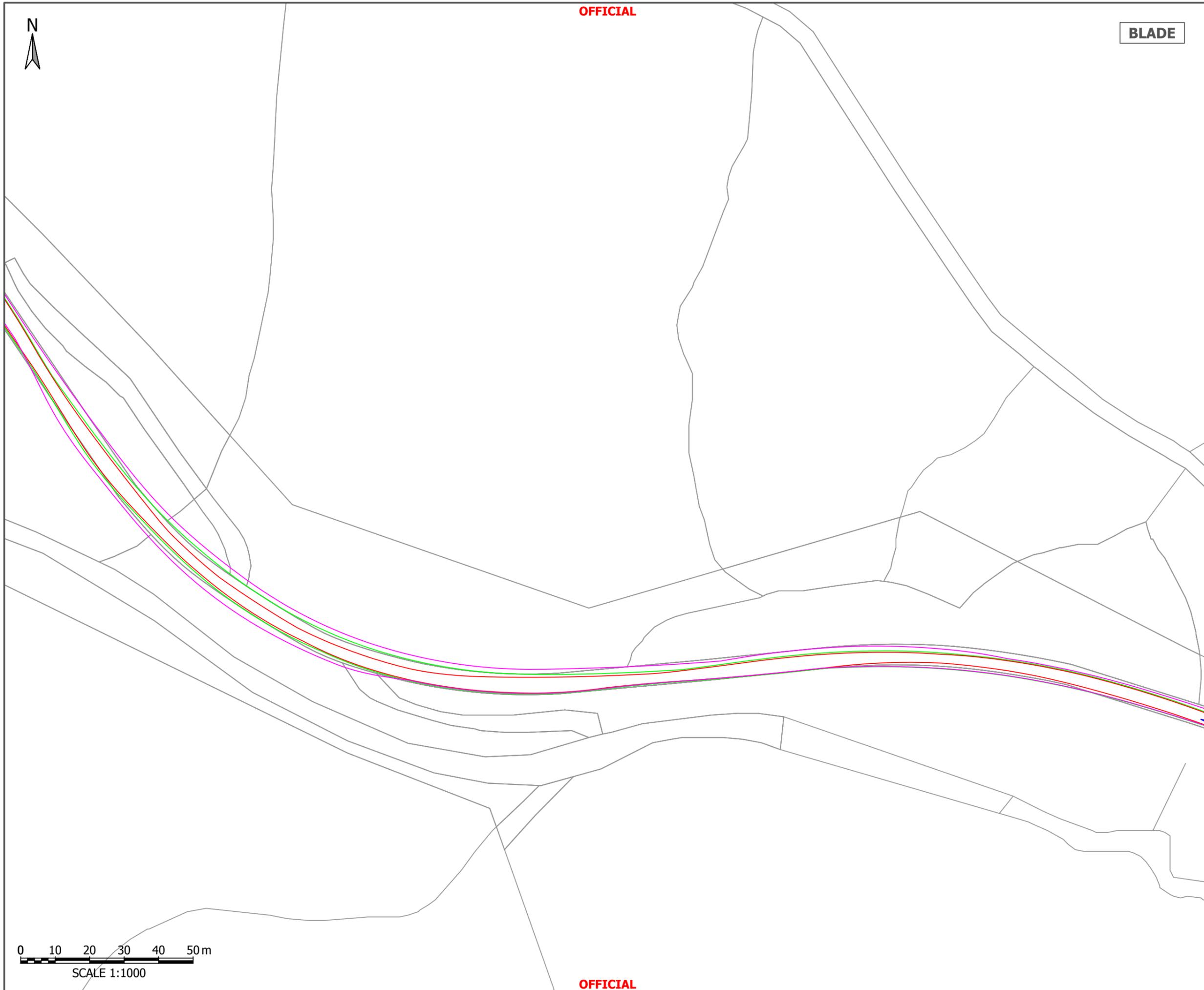


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Key:

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



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SSE RENEWABLES

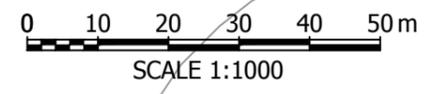
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

Plot Location:
25 A87 SECOND SERIES OF BENDS APPR. MEALL a'CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 023-3	P02	



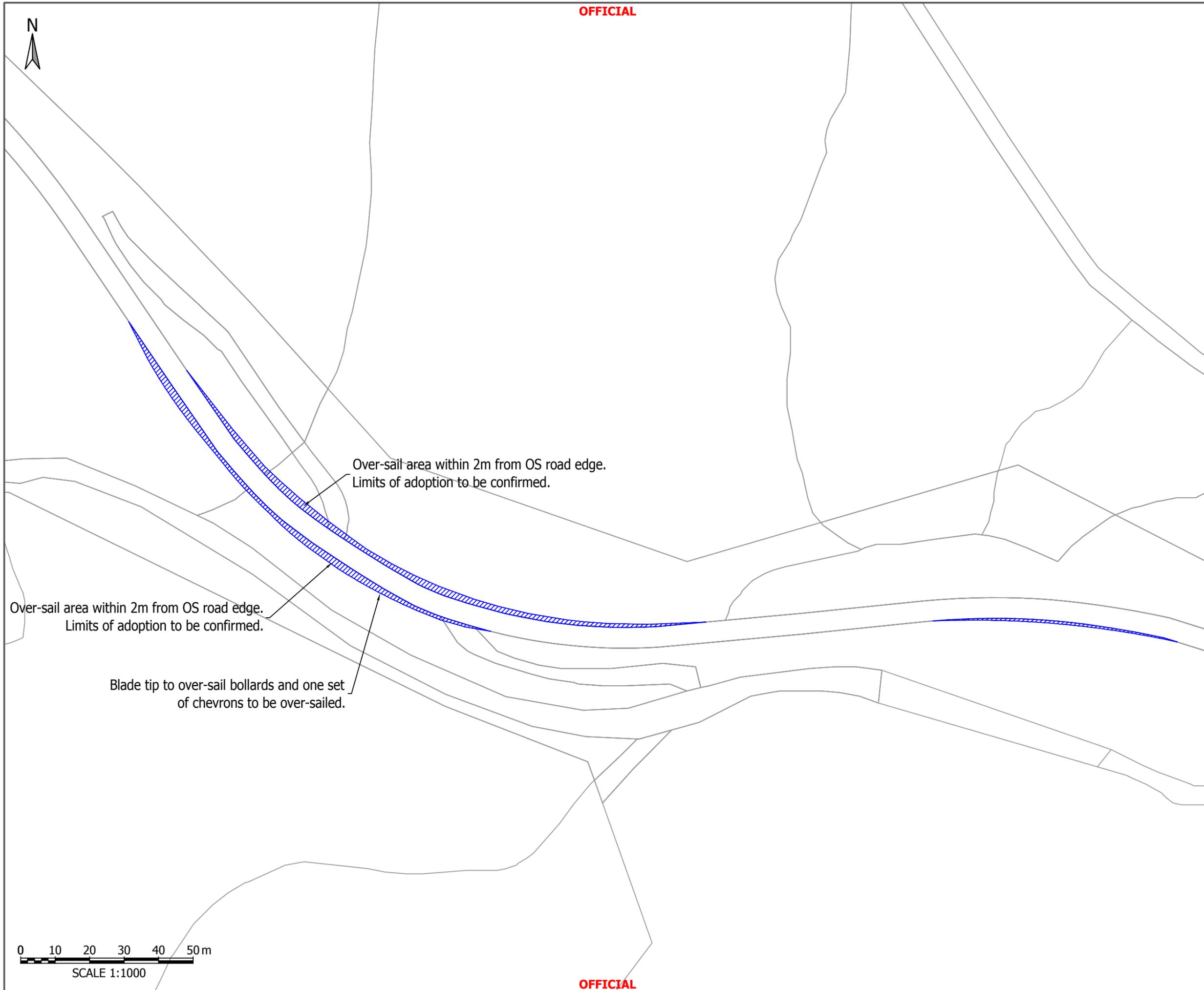
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Key:

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



Over-sail area within 2m from OS road edge.
Limits of adoption to be confirmed.

Over-sail area within 2m from OS road edge.
Limits of adoption to be confirmed.

Blade tip to over-sail bollards and one set
of chevrons to be over-sailed.

DRAFT ISSUE

Rev	Description	Date	Drn / Cbk / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

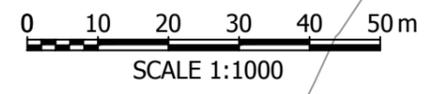
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
**A87 SECOND SERIES OF BENDS APPR.
MEALL a'CHARRA**

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	023-4	P02



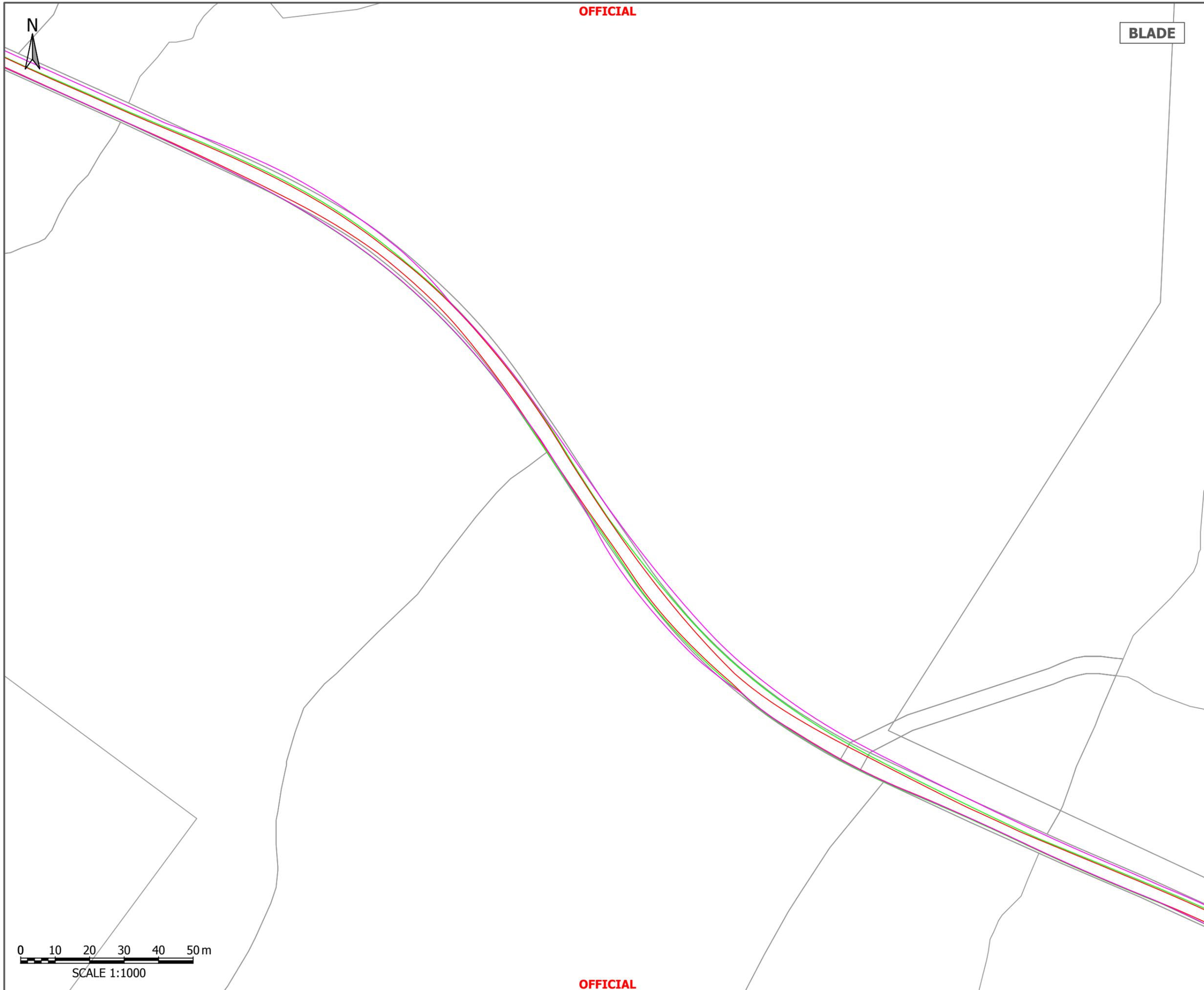
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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

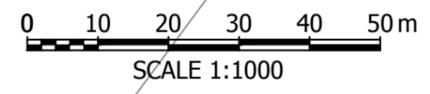
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
26 A87 SERIES OF BENDS MEALL a'CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 024	P02



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Key:

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

Snow pole to be removed during deliveries.
Verge over-sail under 1m

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

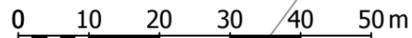
Sheet Title: REQUIRED REMEDIAL WORKS

POI	Location
26	A87 SECOND SERIES OF BENDS MEALL a'CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '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	P02



SCALE 1:1000

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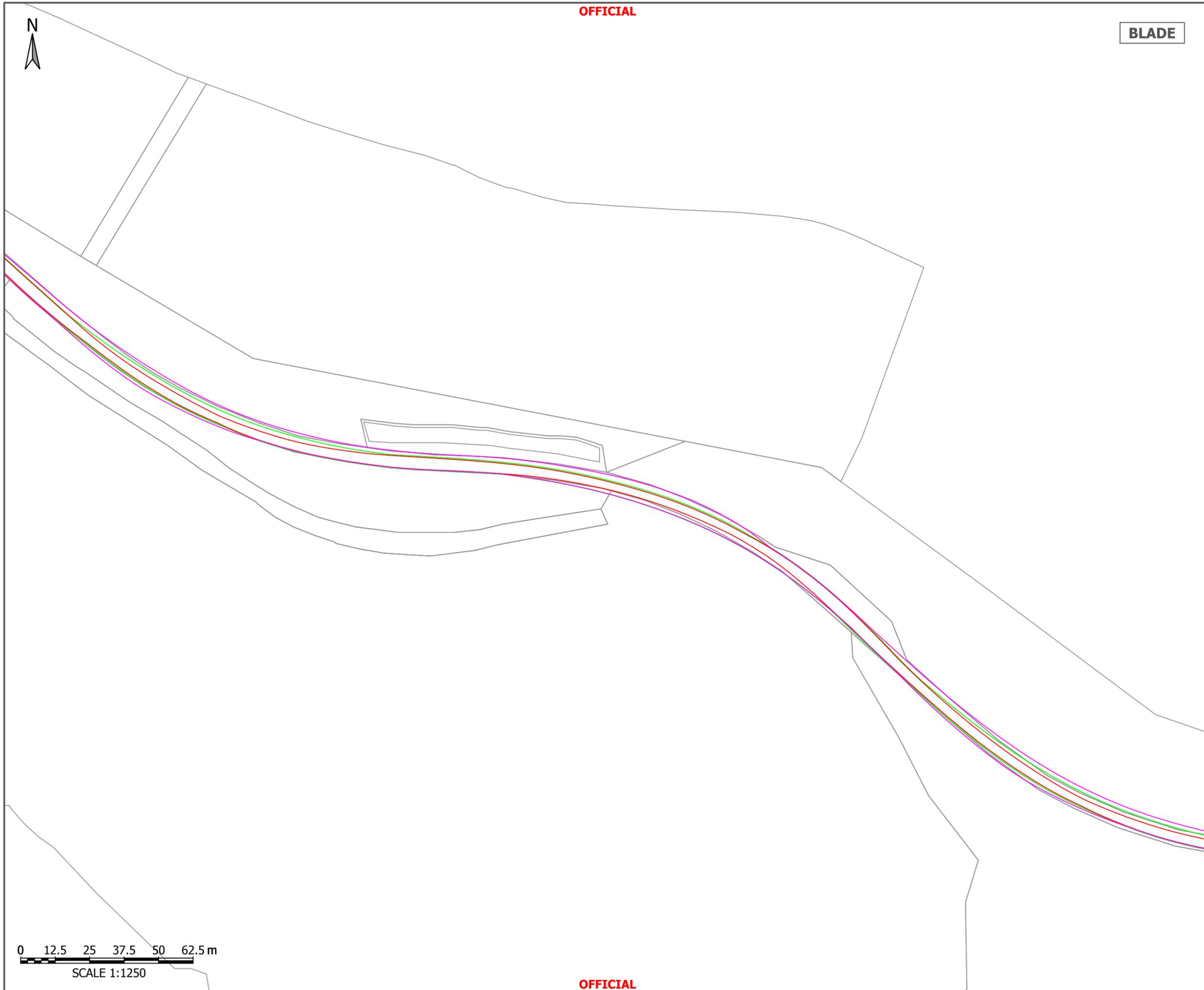
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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

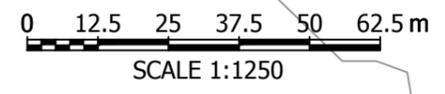
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 SWEPT PATH ASSESSMENT

PII Location:
26 A87 SECOND SERIES OF BENDS MEALL a'CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	024-3	P02



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

Tree canopy to be trimmed back.

Blade-tip to over-sail six bollards and one chevron sign, snow pole may require removal.

Snow pole may require removal. Over-sail approx.1.6m. Limits of adoption to be confirmed.

Snow pole may require removal. Over-sail approx.1.7m. Limits of adoption to be confirmed.

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

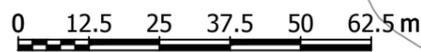
PCN Location: 26 A87 SECOND SERIES OF BENDS MEALL a'CHARRA

Model Reference: N/A

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

Client Project Number Originator Volume/System Level/Location Type/Code Role Number Revision
PRJ01 - TTE - 00 - ZZ - DR - SPA - 024-4 P02

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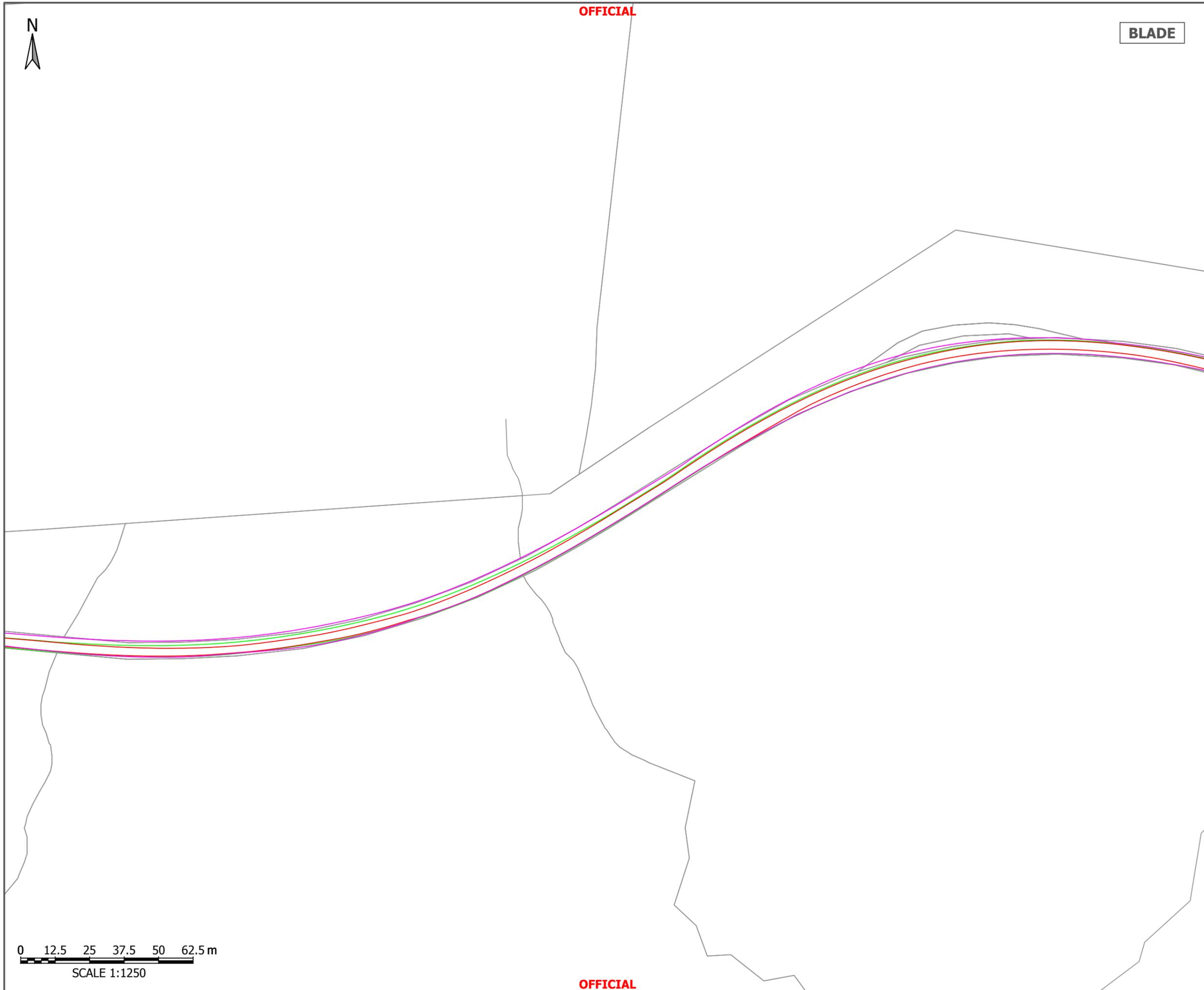


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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

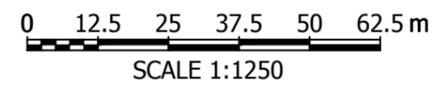
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
26 A87 THIRD SERIES OF BENDS MEALL a'CHARRA

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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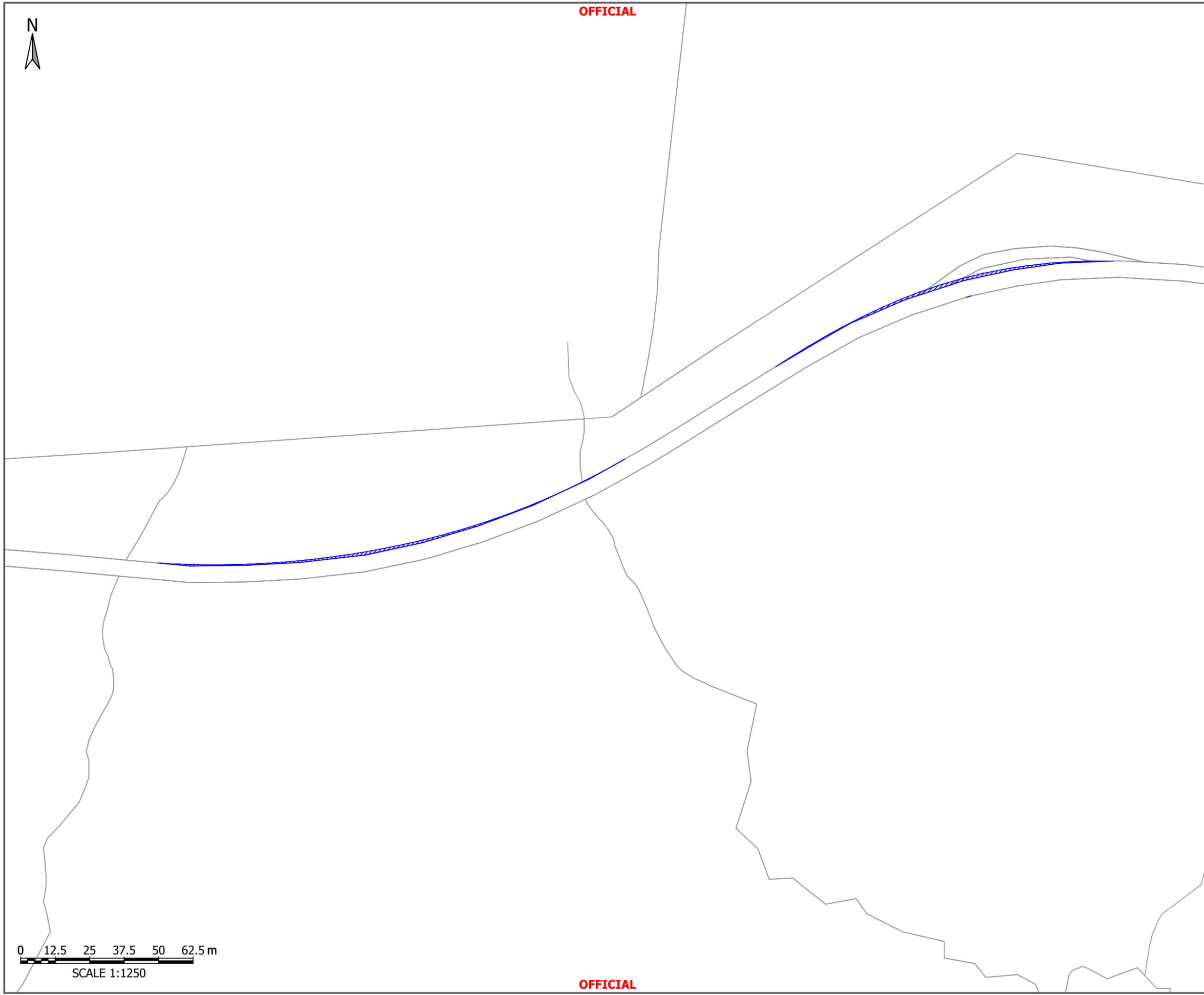
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Key:

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



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Rev	Description	Date	Drn / Cdr / App.
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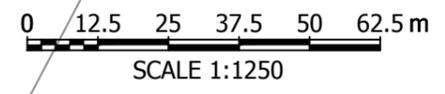
Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS
 POI 26 Location **A87 THIRD SERIES OF BENDS MEALL a'CHARRA**

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System Level/Location	Type/Code	Role	Number	Revision		
PRJ01	- TTE	- 00 - ZZ	- DR - SPA	- 024-6	P02			



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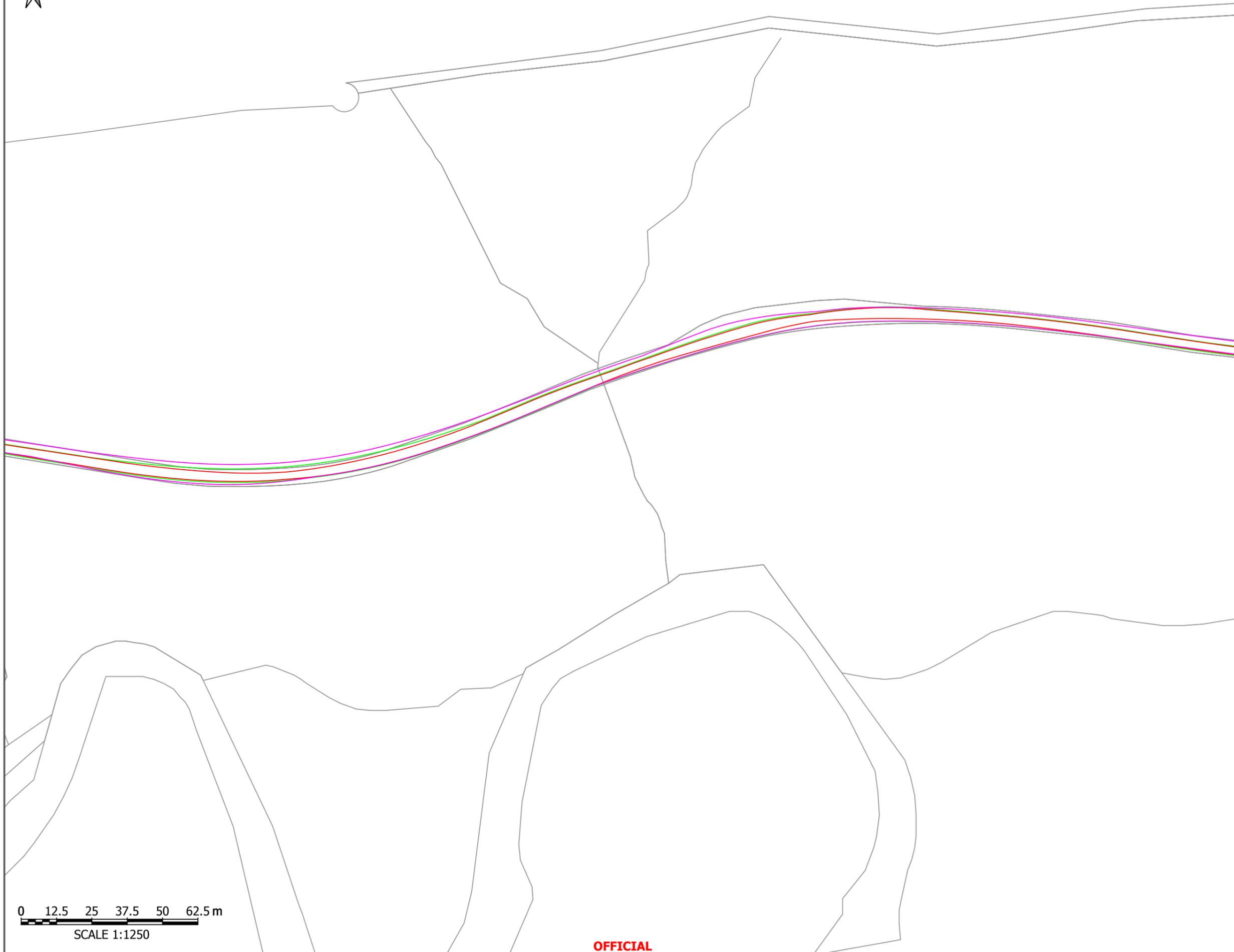


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BLADE

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
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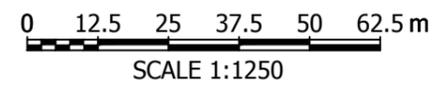
Sheet Title:
 SWEEP PATH ASSESSMENT

Plot Location:
27 A87 SERIES OF BENDS APPR. CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	025	P02



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Key:

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

Vegetation to be trimmed back.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

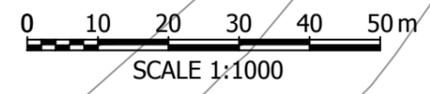
Sheet Title:
 REQUIRED REMEDIAL WORKS

P01	Location
27	A87 SERIES OF BENDS APPR. CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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PRJ01	TTE	00	ZZ	DR	SPA	025-2	P02



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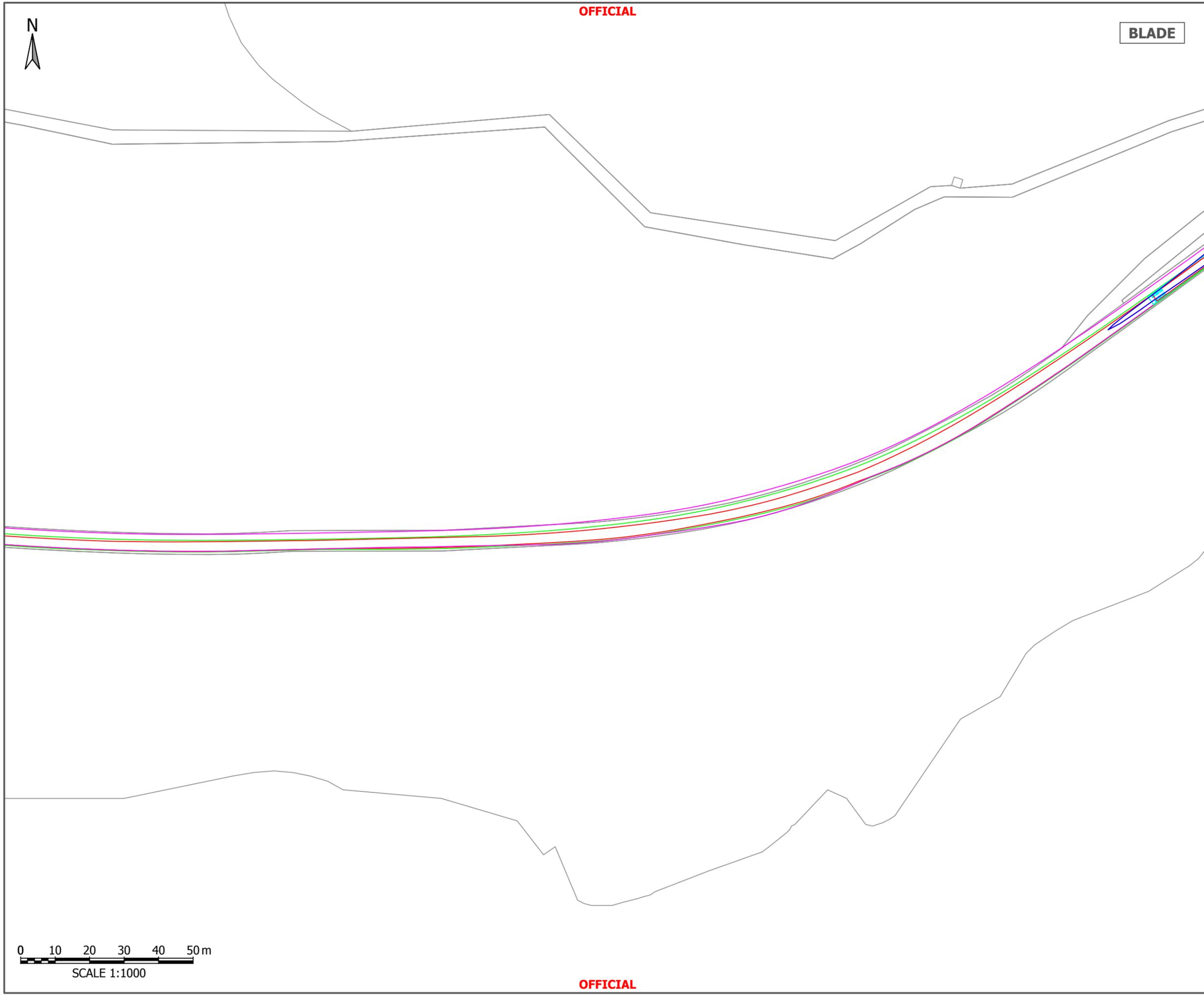


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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

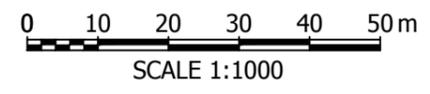
Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
27 A87 2ND SERIES OF BENDS APPR. CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	025-3	P02



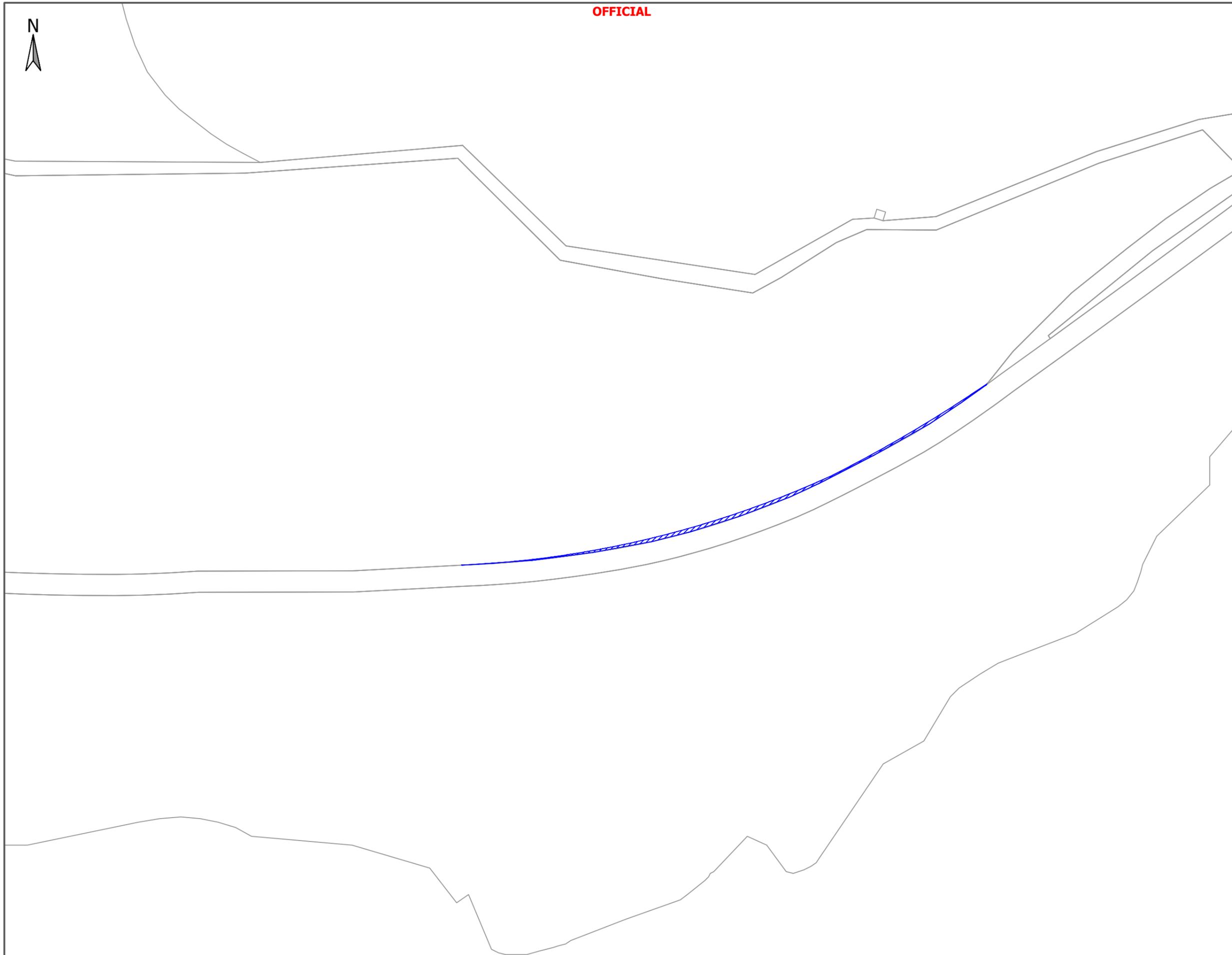
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Key:

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



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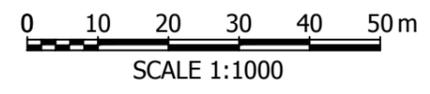
Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS
 P01 Location: **A87 2ND SERIES OF BENDS APPR. CLUANIE INN**

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 025-4	P02	



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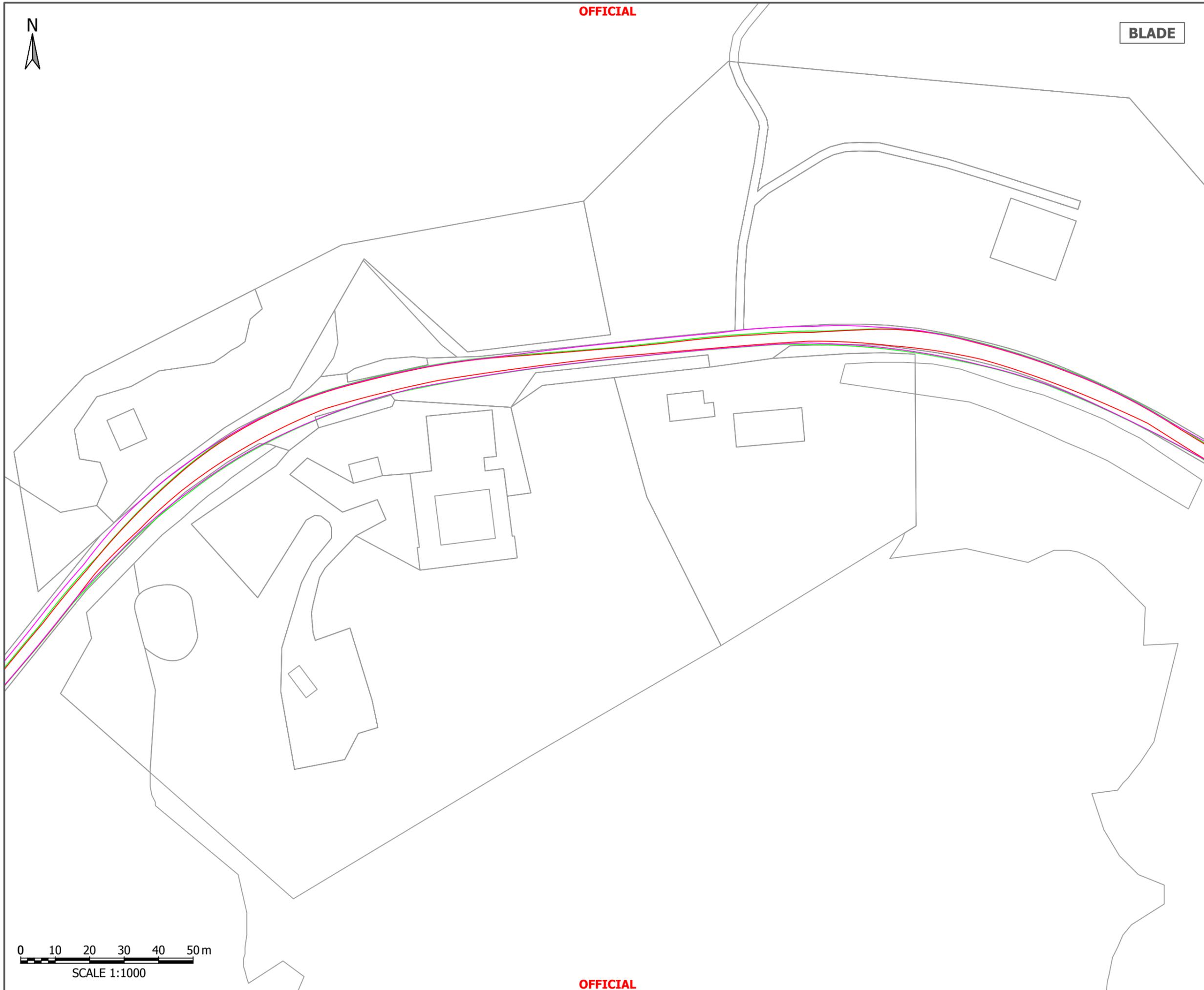


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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

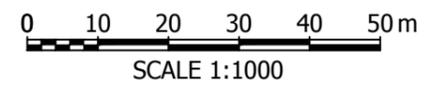
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
28 A87 SERIES OF BENDS CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	026	P02



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REAR WHEEL STEER

Key:

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

Tree canopy to be trimmed back.
Five bollards to be over-sailed.

Bollards and street furniture
to be set back.

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Client:
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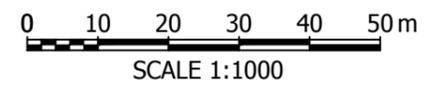
Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

P01 Location:
28 A87 SERIES OF BENDS CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
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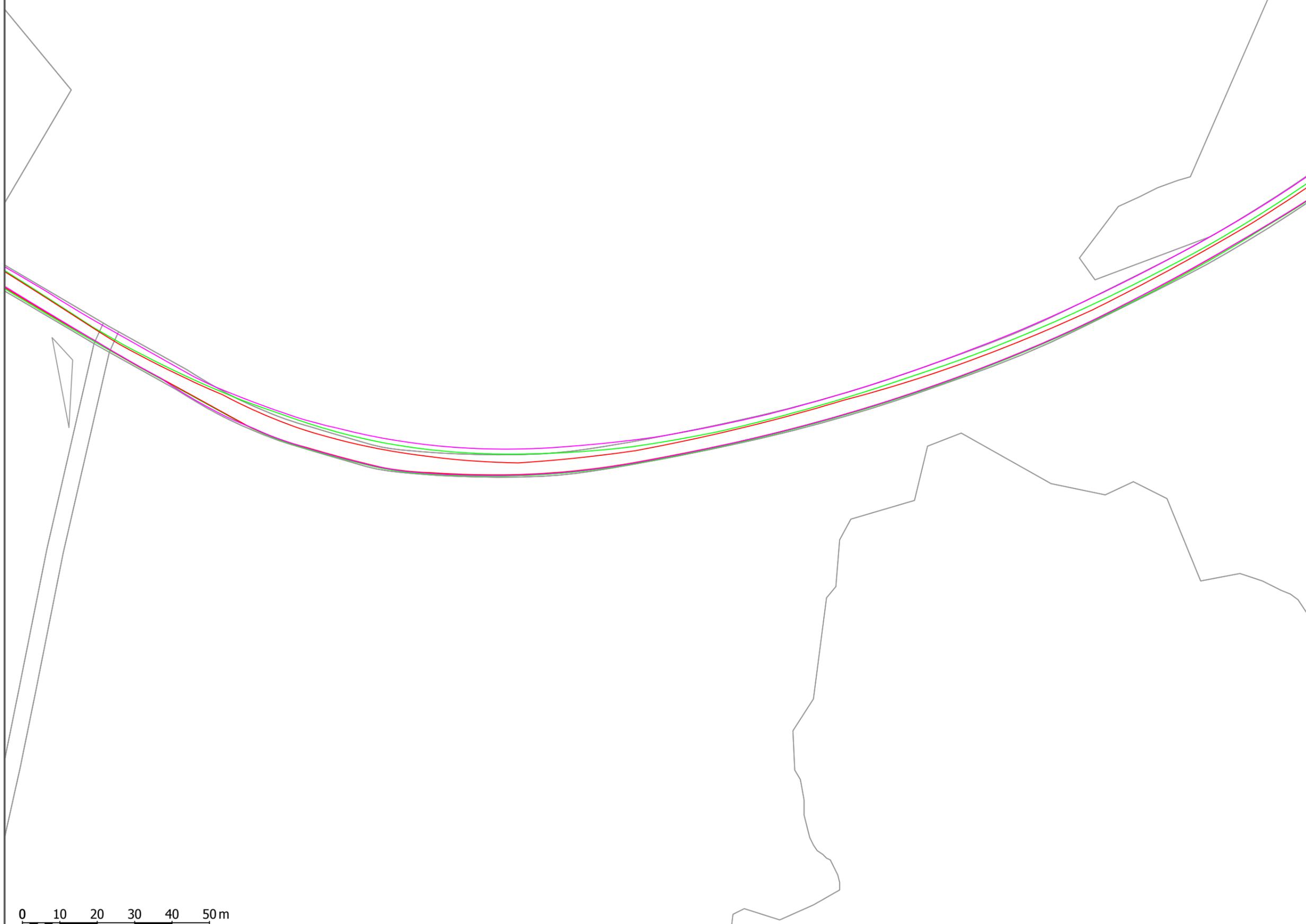
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BLADE

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



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 Client:



SSE RENEWABLES

Project Name:
BHLARAIH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

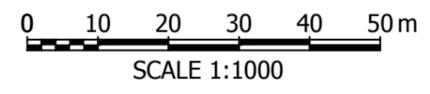
Sheet Title:
 SWEEP PATH ASSESSMENT

PC# Location:
29 LEFT BEND AFTER CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	027	P02



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Key:

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

Over-sail approx.2.4m.
Limits of adoption to be confirmed.

DRAFT ISSUE

Rev	Description	Date	Drn / S26 / App.
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

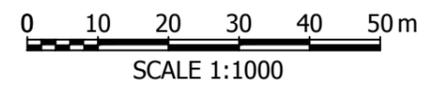
Sheet Title: REQUIRED REMEDIAL WORKS

P01 Location:
29 LEFT BEND AFTER CLUANIE INN

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	027-2	P02



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BLADE

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

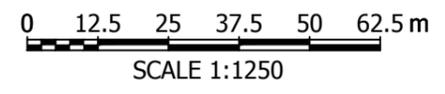
POI Location:
30 A87 SERIES OF BENDS APPR. STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	028	P02

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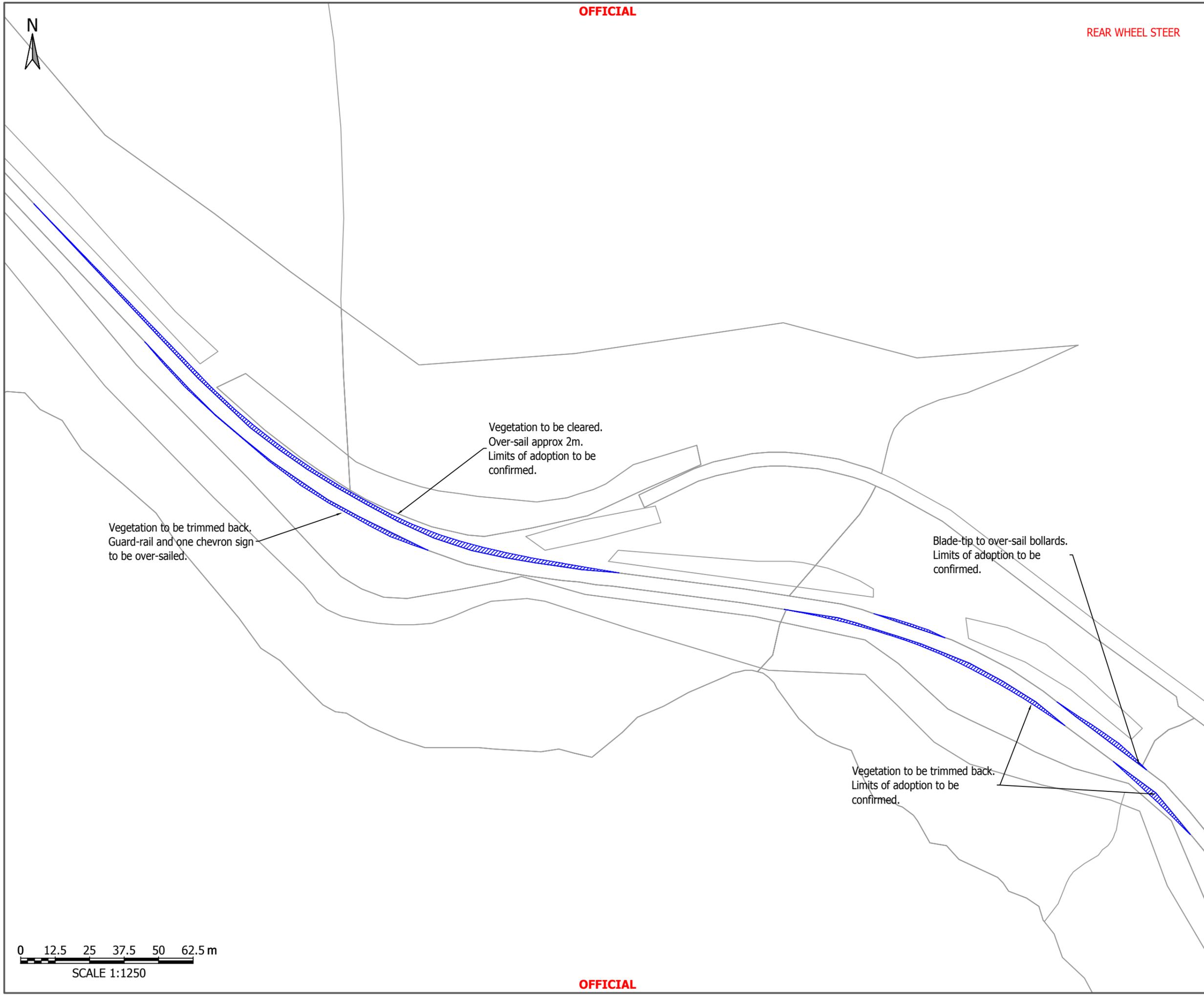
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REAR WHEEL STEER

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck	App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ	MG
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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

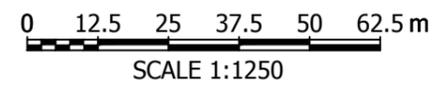
Sheet Title: REQUIRED REMEDIAL WORKS

PC1 Location: **30 A87 SERIES OF BENDS APPR. STRATH CLUANIE**

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	Mar '21	MG	Mar '21	JD	Mar '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	P02



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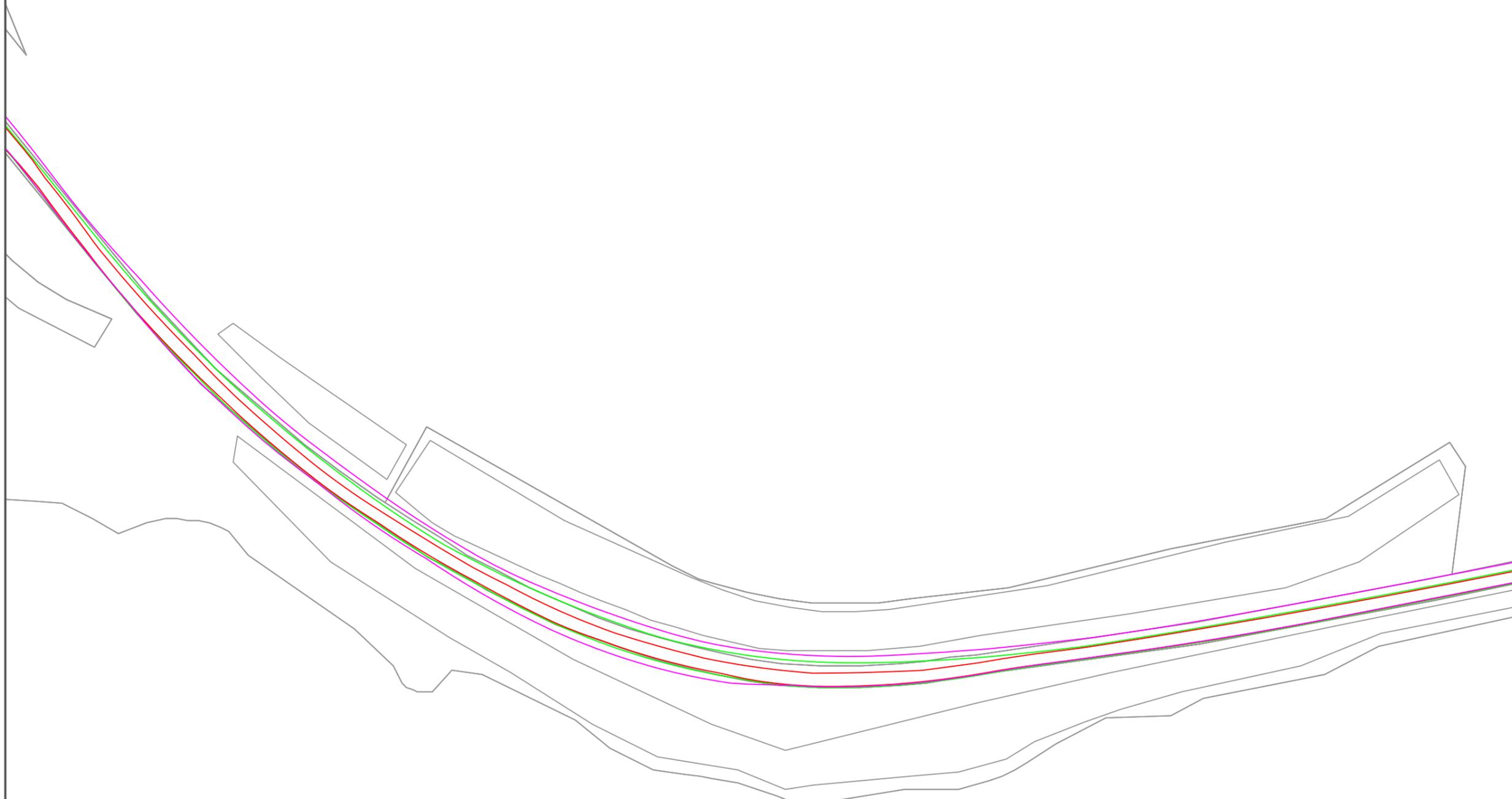
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BLADE

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Cdr / App.
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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

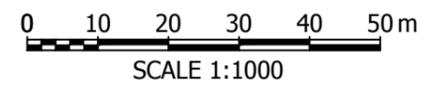
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
30 A87 2ND SERIES OF BENDS APPR. STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	028-3	P02



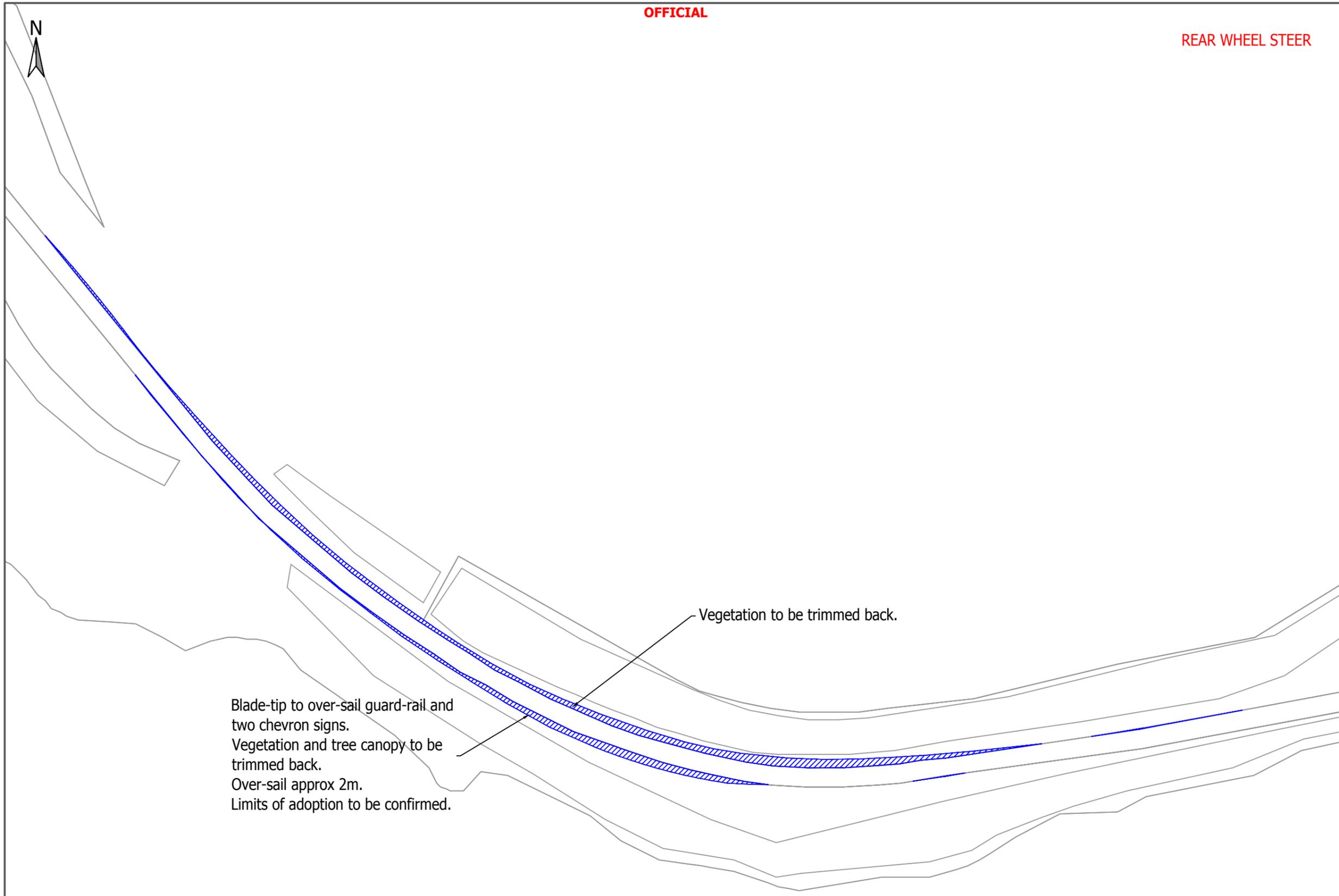
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REAR WHEEL STEER

Key:

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



Blade-tip to over-sail guard-rail and two chevron signs.
 Vegetation and tree canopy to be trimmed back.
 Over-sail approx 2m.
 Limits of adoption to be confirmed.

Vegetation to be trimmed back.

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

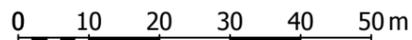
PC1 Location:
30 A87 2ND SERIES OF BENDS APPR. STRATH CLUANIE

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

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

Client Project Number: PRJ01
 Originator: TTE
 Volume/System Level/Location: - 00 - ZZ
 Type/Code: DR - SPA
 Role: - 028-4
 Number: P02

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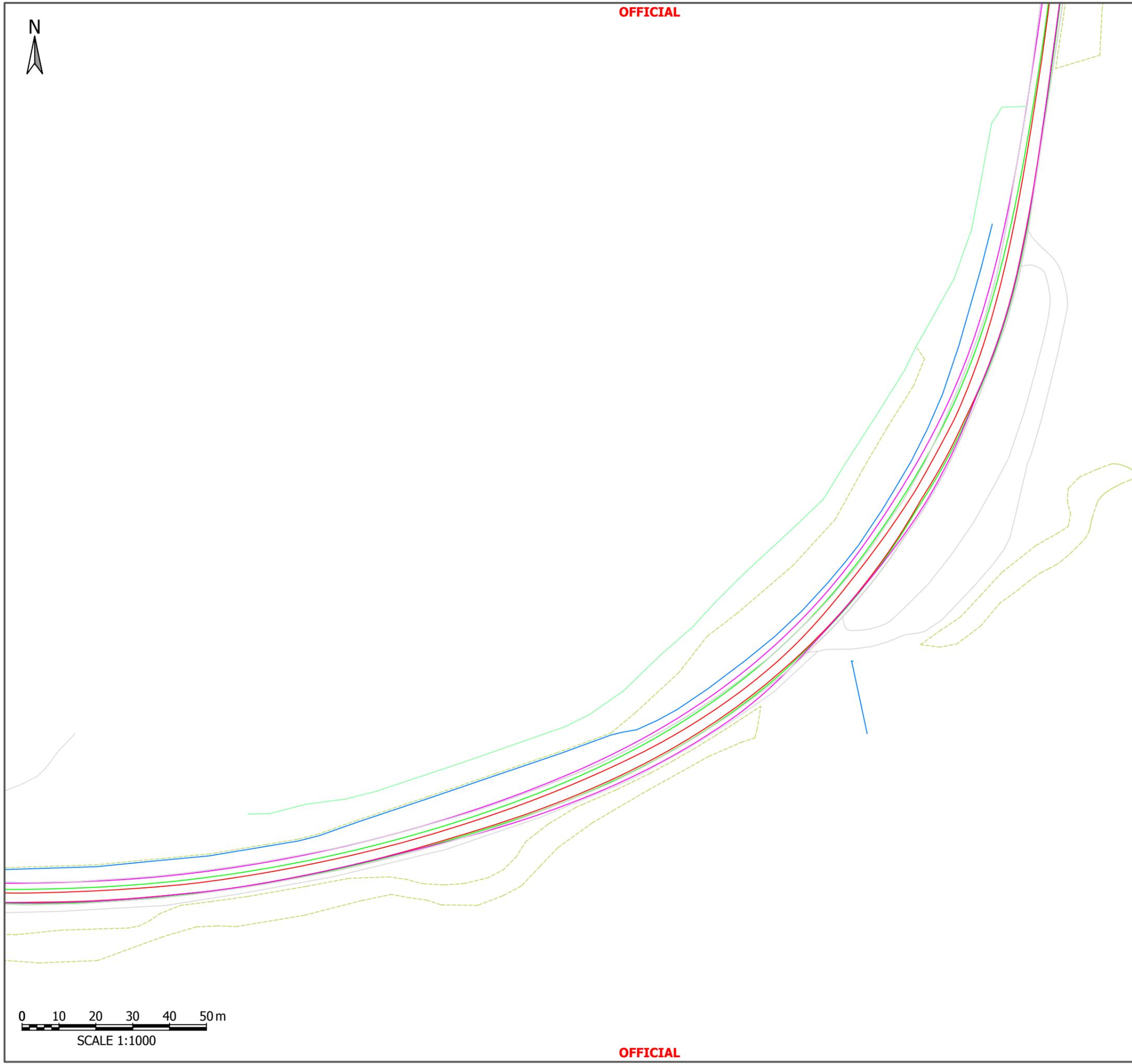


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BLADE

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

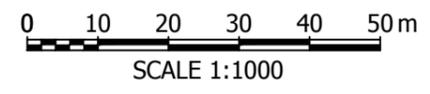
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
31 A87 SERIES OF BENDS STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	029	P02



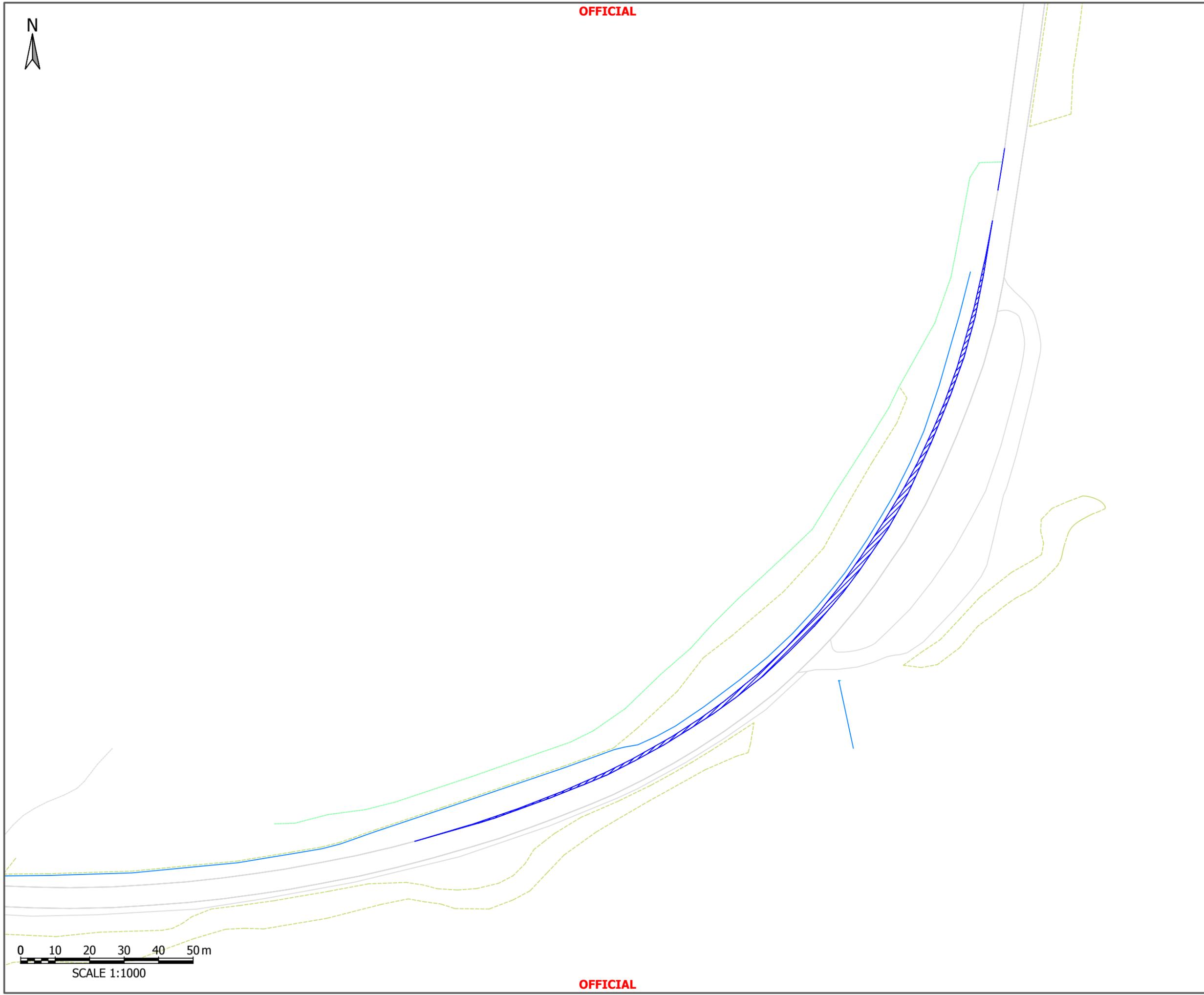
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Key:

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



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Rev	Description	Date	Drn / CDR / App
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Client:
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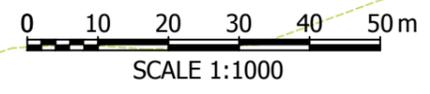
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
31 A87 SERIES OF BENDS STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
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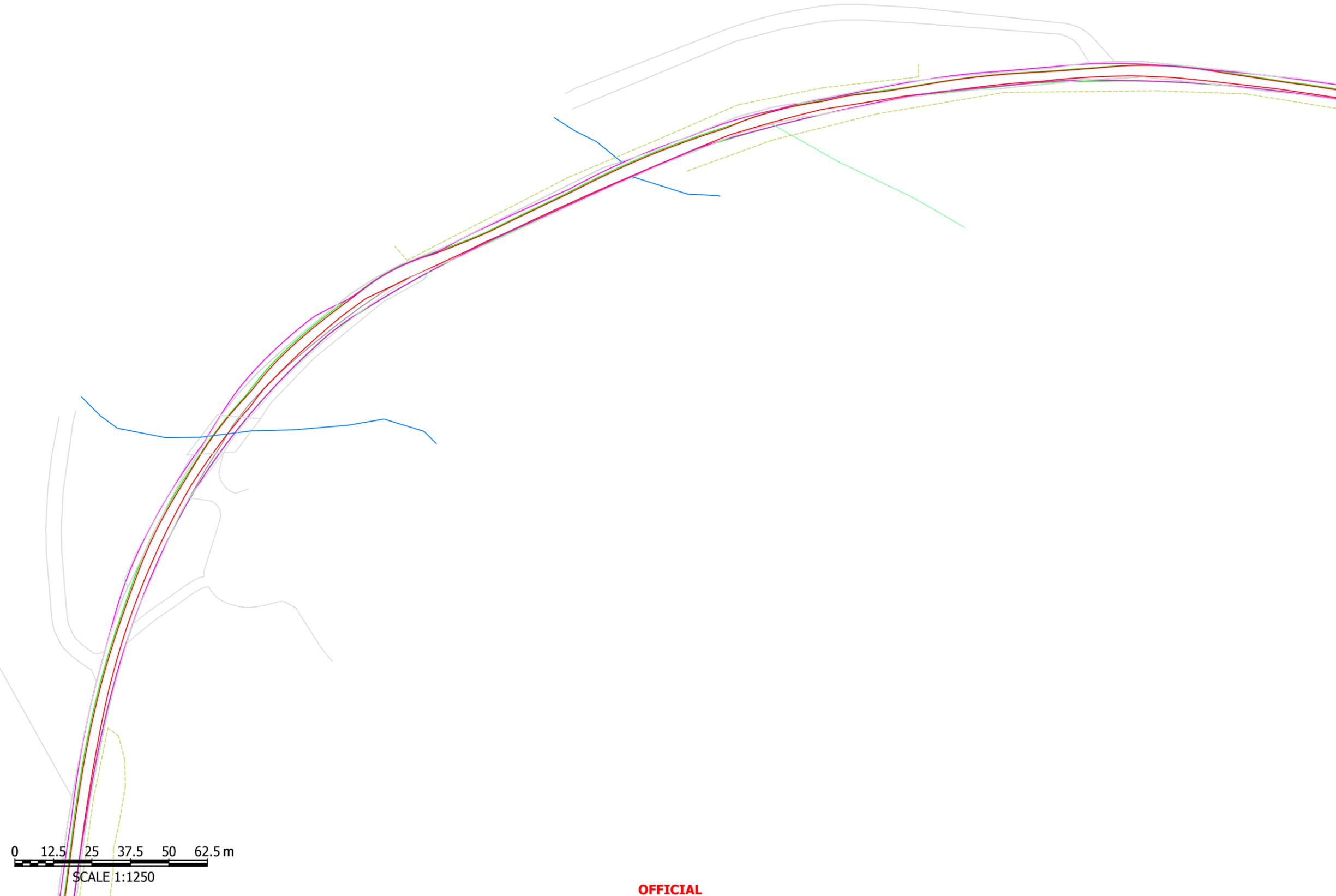
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BLADE

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

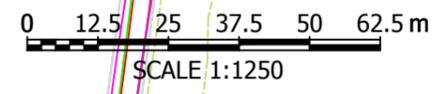
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
31 A87 2ND SERIES OF BENDS STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	029-3	P02



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Key:

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

Blade tip to over-sail bollards.
Vegetation to be trimmed back.

Vegetation to be trimmed back.

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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Client:
SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

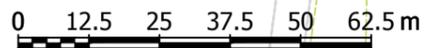
Sheet Title:
REQUIRED REMEDIAL WORKS

P01 Location:
31 A87 2ND SERIES OF BENDS STRATH CLUANIE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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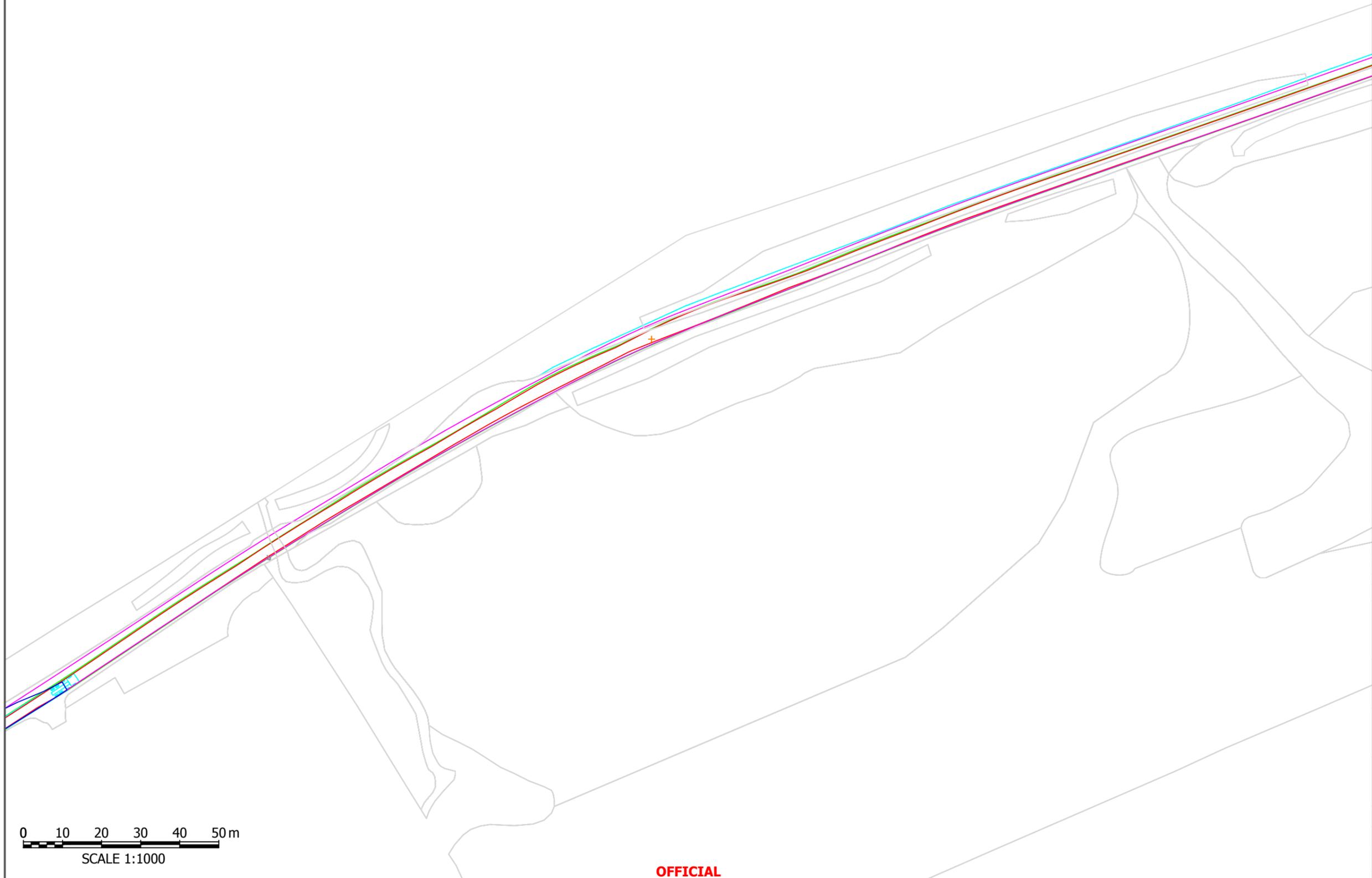
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BLADE

Key:

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



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Rev	Description	Date	Drn / CDR / App
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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

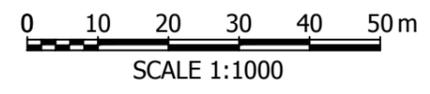
Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
32 A887 RIGHT BEND / BRIDGE APPR. TORGGOYLE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	030	P02



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Key:

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

Indicative road widening observed on site visit.

Tree canopy to be trimmed back.

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENS GAMESA SG155 BLADE & TOWER

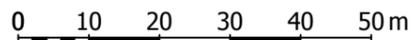
Sheet Title:
REQUIRED REMEDIAL WORKS

PC1	Location
32	A887 RIGHT BEND / BRIDGE APPR. TORGROYLE

Model Reference	N/A	DDP IDP Reference	LOD/LGI
TTE Project Number	Drawn By	Checked By	Approved By
A117008	LJ	MG	JD

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	030-2	P02

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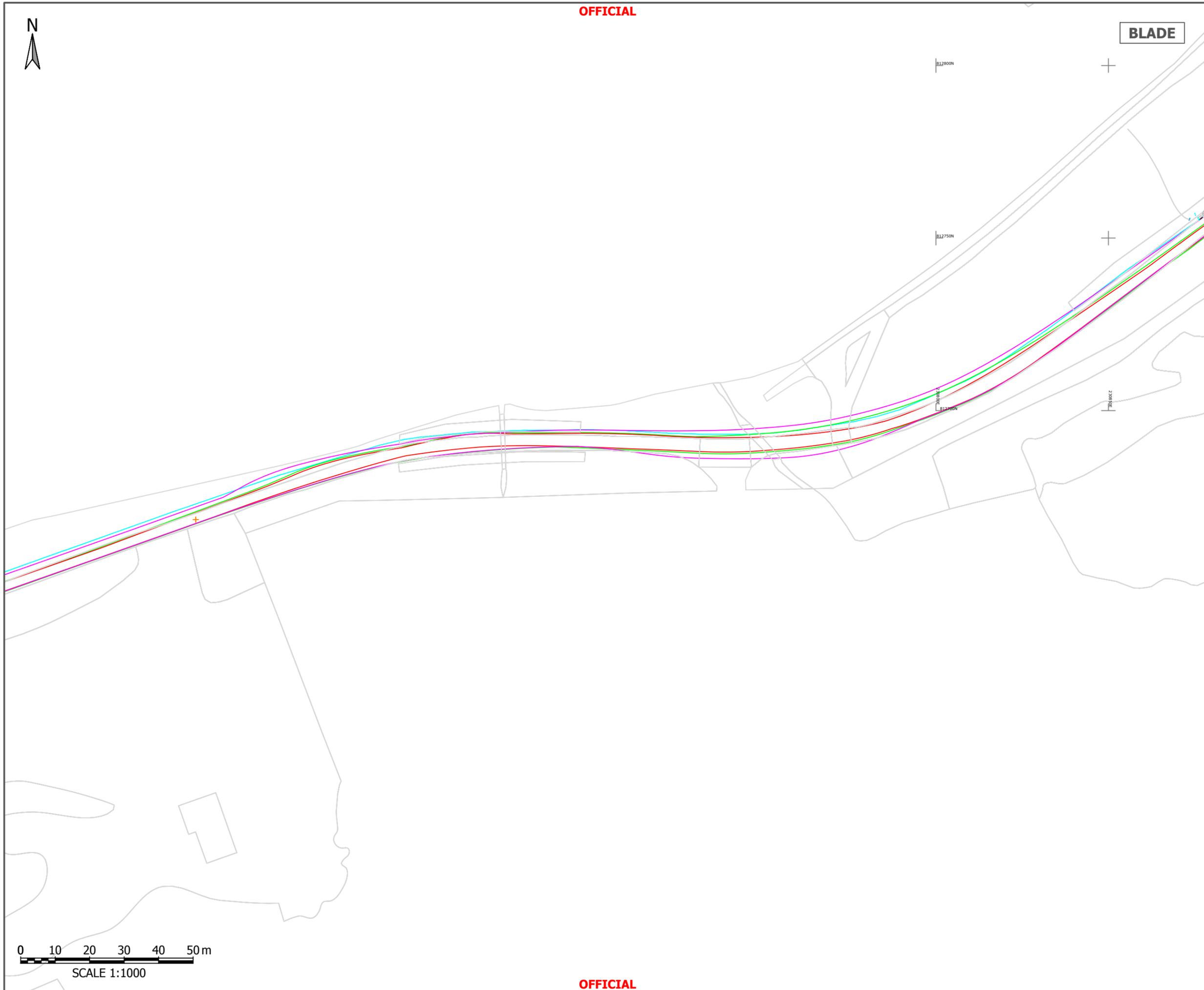


SCALE 1:1000



BLADE

- Key:
- LOAD SWEPT PATH
 - VEHICLE SWEPT PATH
 - WHEEL SWEPT PATH
 - ORDNANCE SURVEY MAPPING
 - INDICTIVE ROAD EDGE



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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SSE RENEWABLES

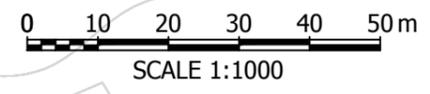
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

PC1 Location:
33 DOUBLE BEND TORGYLE

Model Reference		DDP IDP Reference		LOD/LOI			
N/A							
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Scale @ A3	Stability
A117008	LJ	Mar '21	MG	Mar '21	JD	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR - SPA	031	P02	





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

Indicative road widening observed on site visit.

Tree canopy to be trimmed back.
Over-sail approx 2m.
Limits of adoption to be confirmed.

Location of telegraph pole to be confirmed.



SCALE 1:1000

DRAFT ISSUE

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

POI Location:
33 DOUBLE BEND TORGOLLE

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

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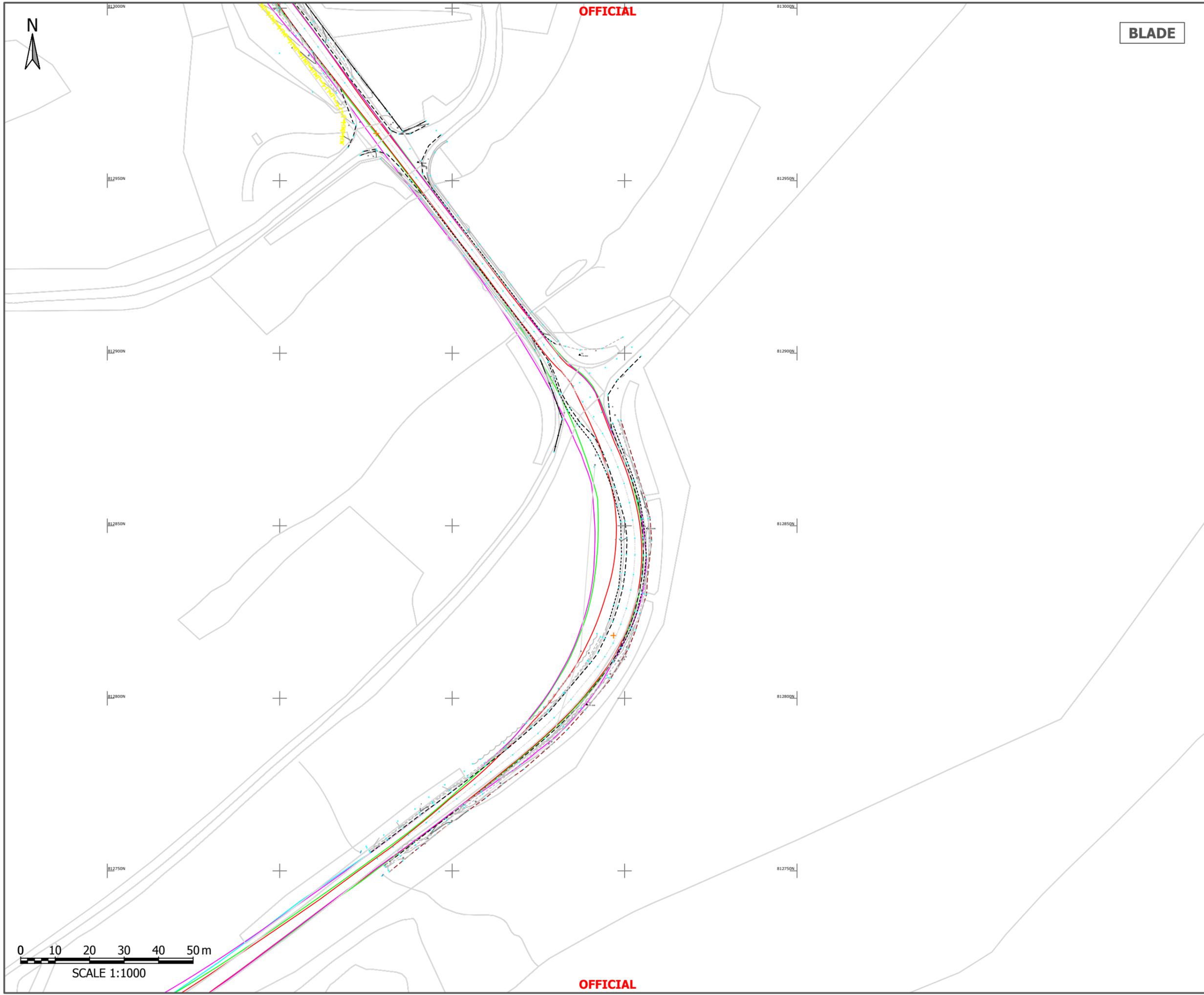


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BLADE

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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 Client:



SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

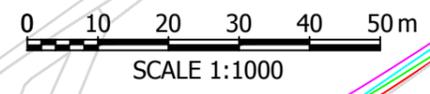
Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
34 A887 TORGYLE BRIDGE

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	032	P02



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REAR WHEEL STEER

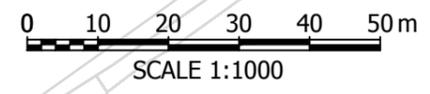
- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING
 -  INDICATIVE ROAD EDGE

Blade web to over-sail bridge parapet.
Vertical assessment of bridge is recommended.

Load suspension to be raised to allow loads
to clear parapet on entry to bridge.
Fence on approach also to be over-sailed or
removed.
Third party land required.

Load bearing surface to be laid in over-run area.
Land to be re-profiled to carriageway level subject to detailed design.
Three road signs to be socketed or hinged for removal during deliveries.
Two telegraph poles and all road signage to be removed.
Limits of adoption to be confirmed.
Vegetation and trees to be cleared.

Chevron sign heights to be confirmed
suitable for proposed blade tip over-sail.
Bollards to be over-sailed.
Tree canopy to be trimmed back.



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PCN: 34 Location: A887 TORGYLE BRIDGE

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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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

Proximity to fence line and road alignment to be established through topographical survey due to lack of OS mapping data.
Vegetation to be trimmed back.
Third party land potentially required.

Blade tip to over-sail bollards and two sets of chevron signs.
Proximity to OH cables and poles to be confirmed through topographical survey.
One road sign to be removed.
Vegetation to be trimmed back.
Limits of adoption to be confirmed.

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENS GAMESA SG155 BLADE & TOWER

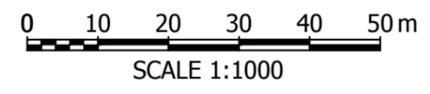
Sheet Title:
REQUIRED REMEDIAL WORKS

PC1 Location:
35 A887 RIGHT BEND NORTH OF TORGYLE BR.

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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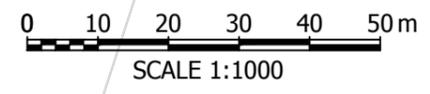
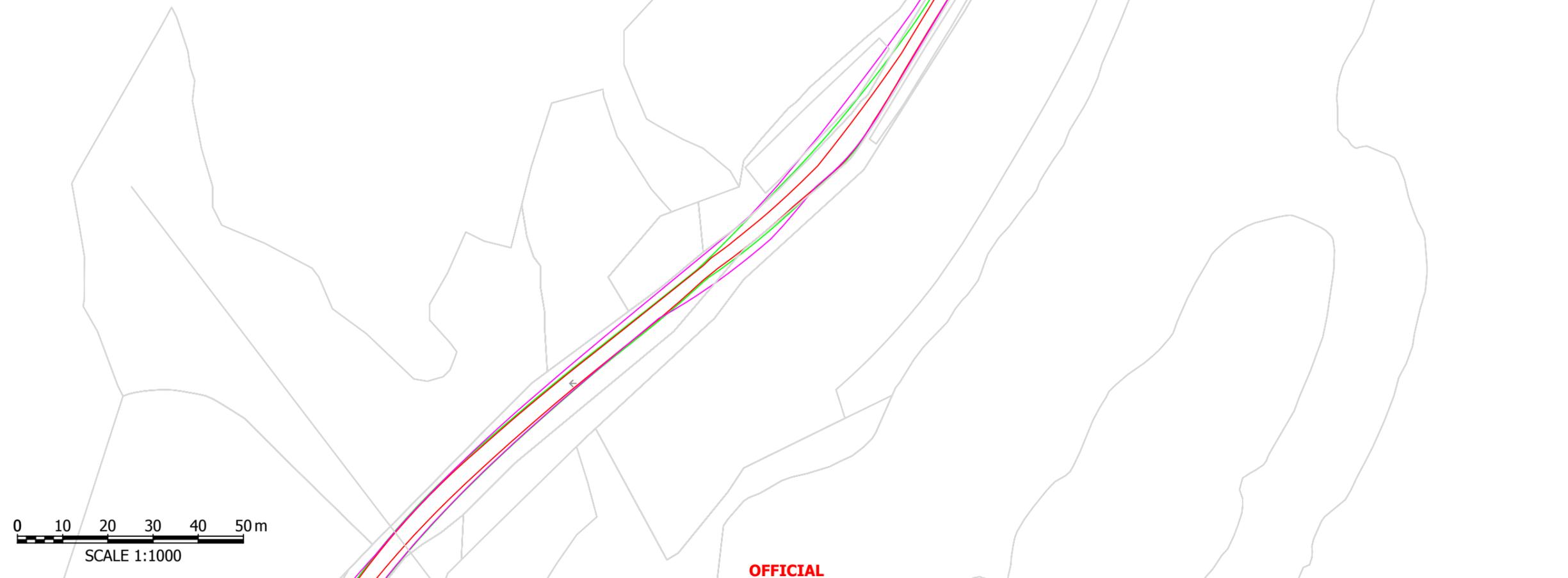
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BLADE

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENS GAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
36 SERIES OF BENDS NORTH OF TORGROYLE BR.

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	034	P02



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REAR WHEEL STEER

Key:

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

One telegraph pole to be confirmed outwith over-sail area.
Over-sail approx 0.9m at this location.
Vegetation to be trimmed back.

Over-sail approx 3.0m at this location.
Limits of adoption to be confirmed.

Max over-sail approx 2.65m.
Limits of adoption to be confirmed.
Trees and vegetation to be removed.



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PCN Location: 36 SERIES OF BENDS NORTH OF TORGYLE BR.

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 034-2 P02

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BLADE

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

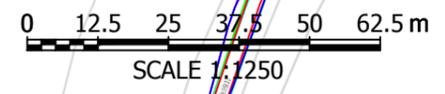
PC1 Location
37 A887 RIGHT BEND DUNDREGGAN POWER STATION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown		S0

Client Project Number: PRJ01
 Originator: TTE
 Volume/System Level/Location: - 00 - ZZ - DR - SPA - 035
 Role: P02

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REAR WHEEL STEER

Key:

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

Blade tip to over-sail guard-rail, two chevron signs and three bollards. Vegetation to be trimmed back. Over-sail approx 2m. Limits of adoption to be confirmed.

Loads to over-sail guard-rail. Vertical clearances to be confirmed.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
37 A887 RIGHT BEND DUNDREGGAN POWER STATION

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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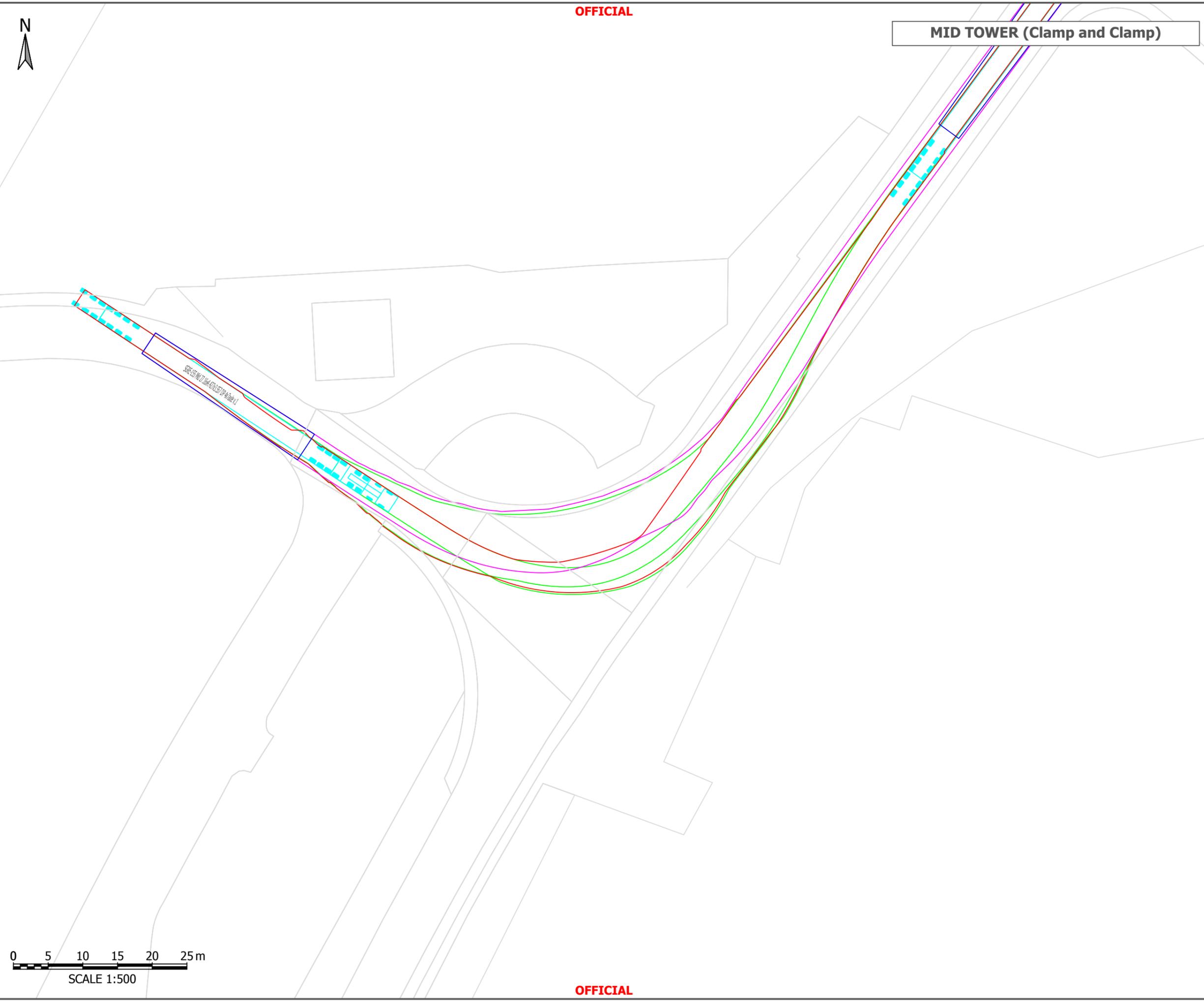
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MID TOWER (Clamp and Clamp)

Key:

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



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

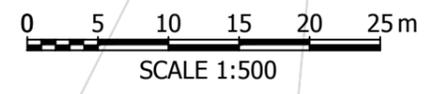
Sheet Title: SWEPT PATH ASSESSMENT

PC: 38 Location: INVERNESS PORT EXIT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 036 P02



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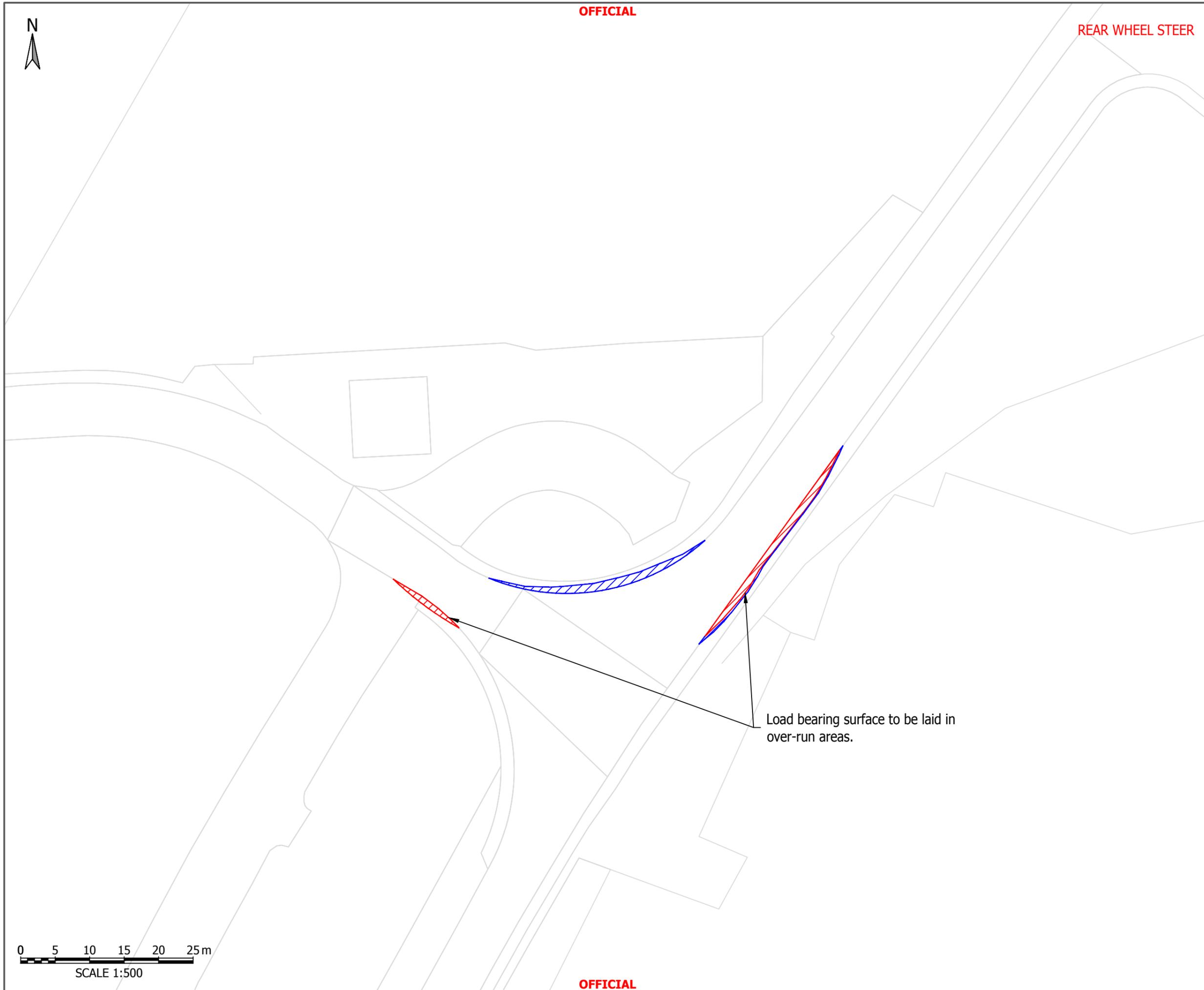


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REAR WHEEL STEER

Key:

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



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

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Client:
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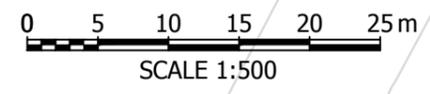
Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 REQUIRED REMEDIAL WORKS

P01 Location:
38 INVERNESS PORT EXIT

Model Reference	N/A		DDP IDP Reference	LOD/LOI				
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 036-2	P02	



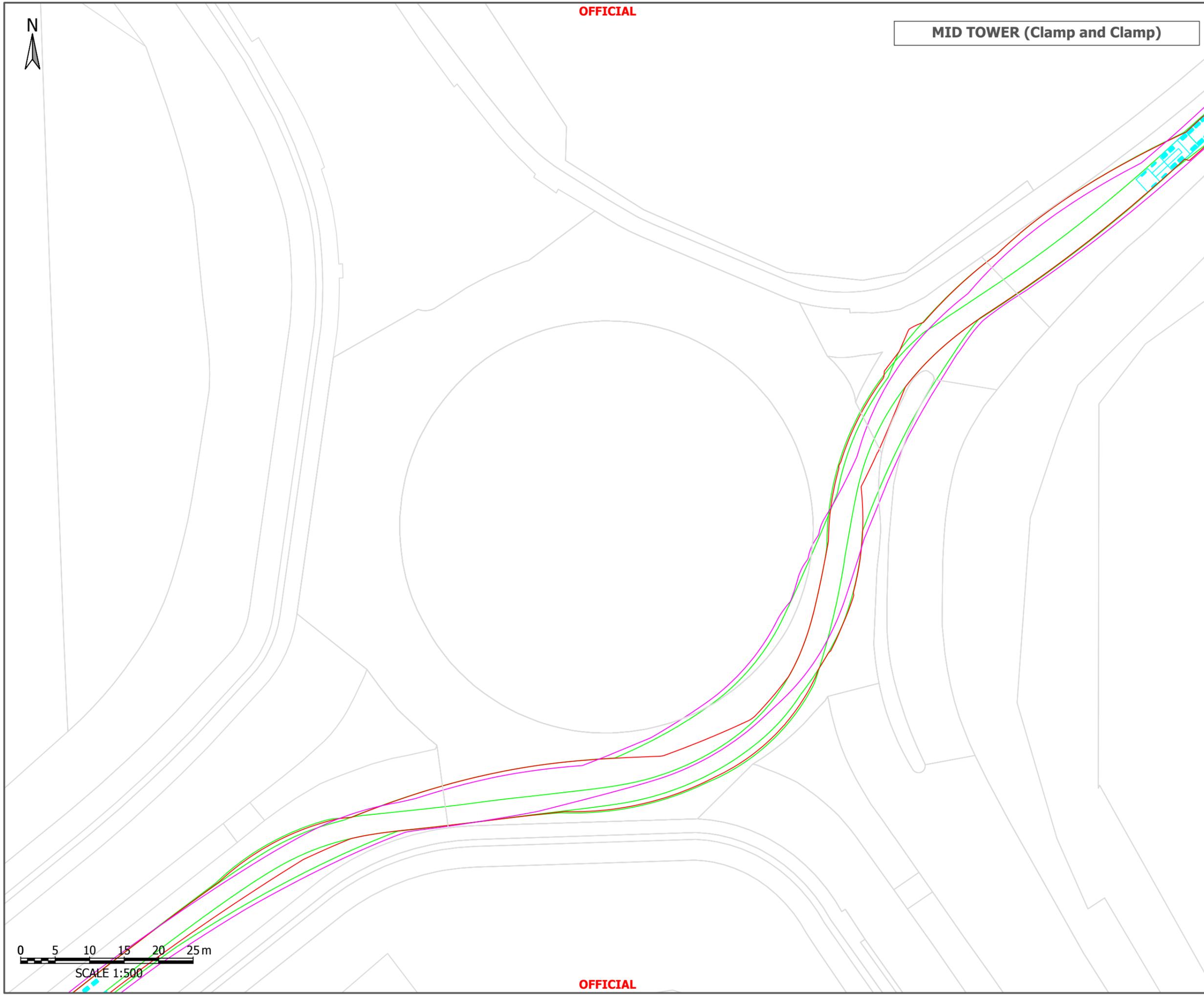
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MID TOWER (Clamp and Clamp)

Key:

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

Plot Location:
39 A82 LONGMAN ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	037	P02



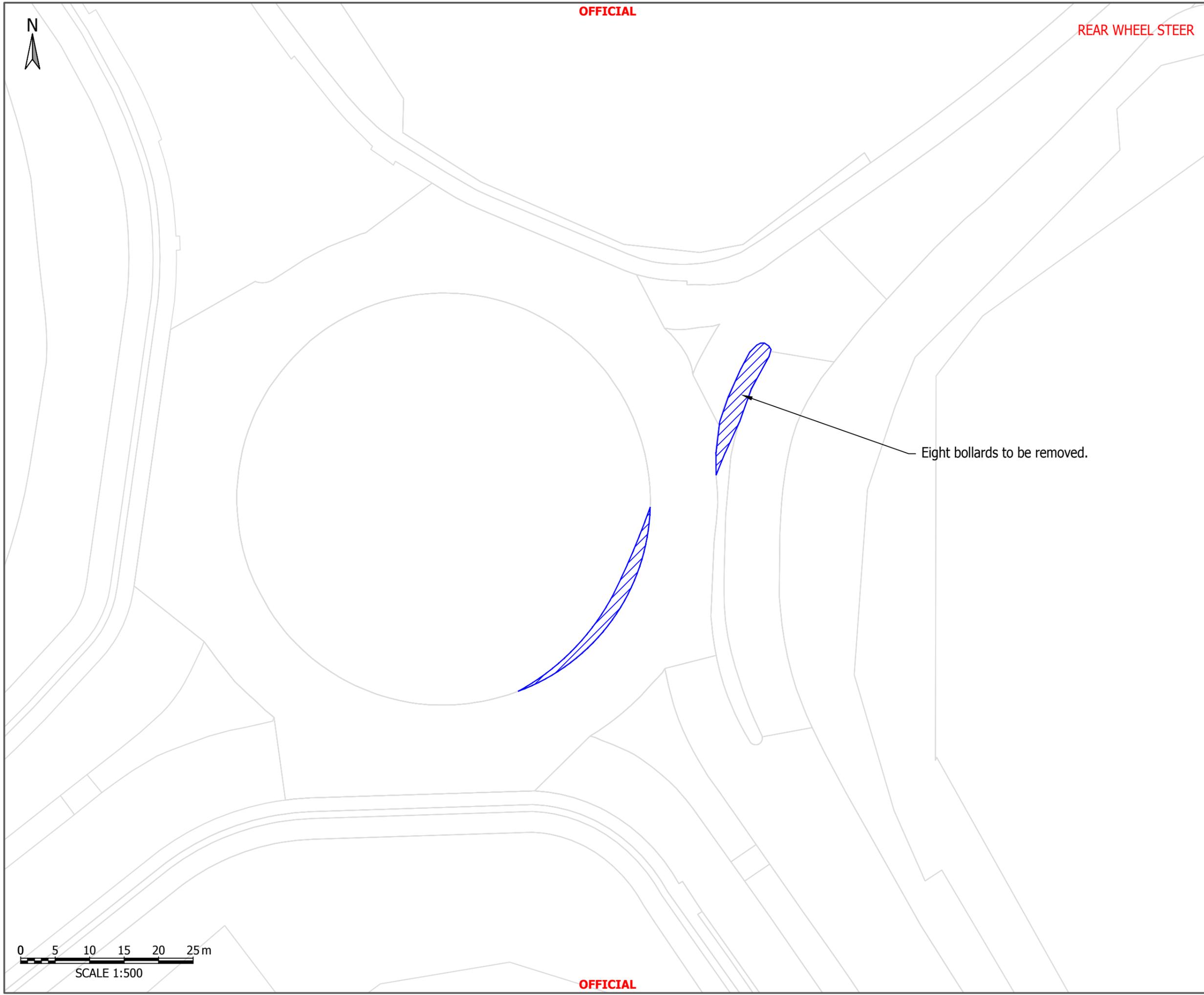
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REAR WHEEL STEER

Key:

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



Eight bollards to be removed.

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

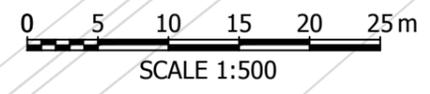
Sheet Title:
 REQUIRED REMEDIAL WORKS

PCN Location:
39 A82 LONGMAN ROUNDABOUT

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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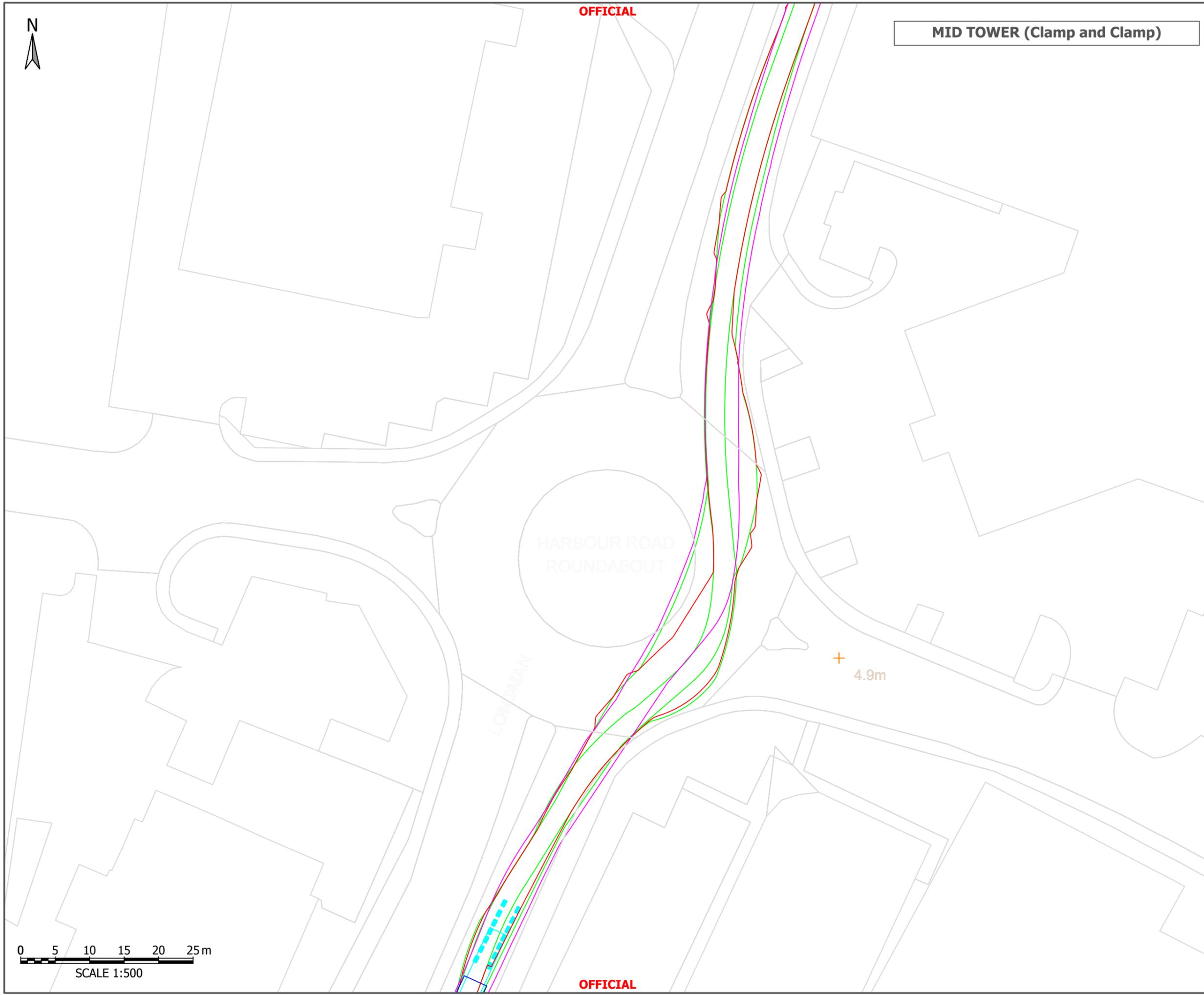


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MID TOWER (Clamp and Clamp)

Key:

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



HARBOUR ROAD ROUNDABOUT

LORNAIDH

+ 4.9m

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Project Name:
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Components:
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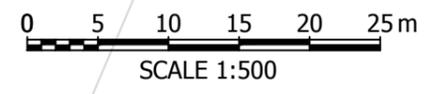
Sheet Title:
 SWEEP PATH ASSESSMENT

PII Location:
40 A82 HARBOUR ROAD ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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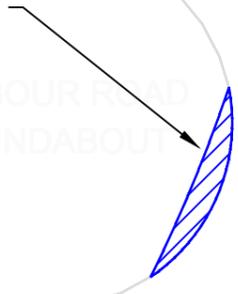
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REAR WHEEL STEER

Key:

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

One sign to be removed.



+ 4.9m

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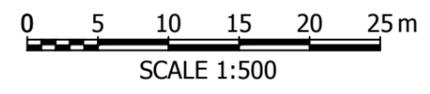
Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PC# 40 Location: A82 HARBOUR ROAD ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
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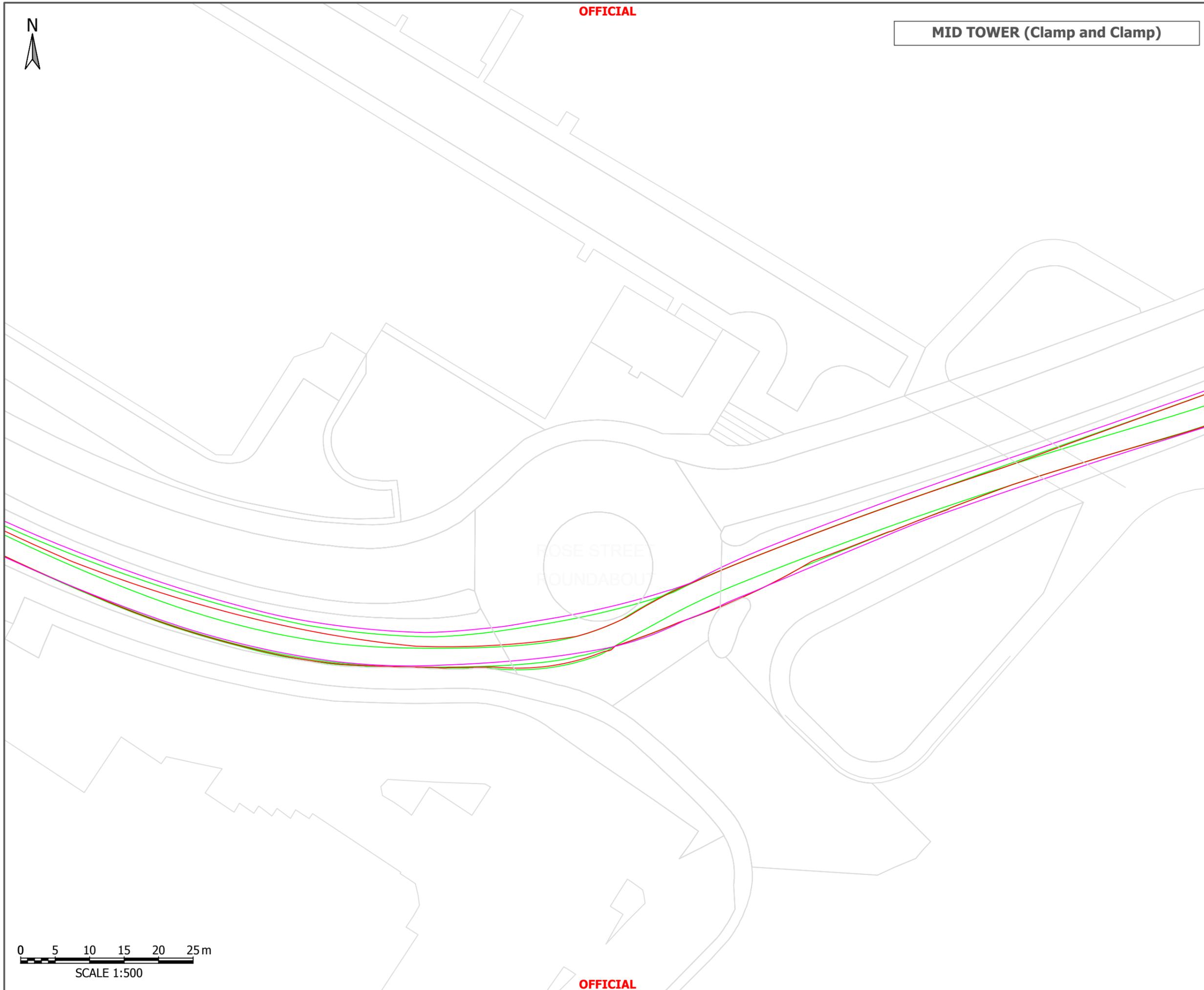


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MID TOWER (Clamp and Clamp)

Key:

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



ROSE STREET
ROUNDABOUT

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

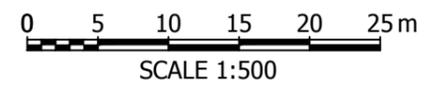
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
41 A82 ROSE STREET ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	039	P02



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Key:

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

Two signs and one bollard to be removed.

ROSE STREET
ROUNDBOUT

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Client
SSE RENEWABLES

Project Name
BHLARAI DH EXT WIND FARM

Components
SIEMENSGAMESA SG155 BLADE & TOWER

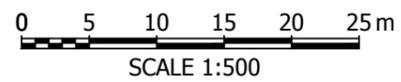
Sheet Title
REQUIRED REMEDIAL WORKS

POI Location
41 A82 ROSE STREET ROUNDABOUT

Model Reference
N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Substability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	50

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Rule	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	039-2	P02





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MID TOWER (Clamp and Clamp)

Key:

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

SHORE STREET
ROUNDBOUT

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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 Client:



SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

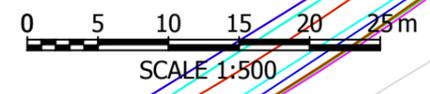
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
42 A82 SHORE STREET ROUNDBOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	040	P02



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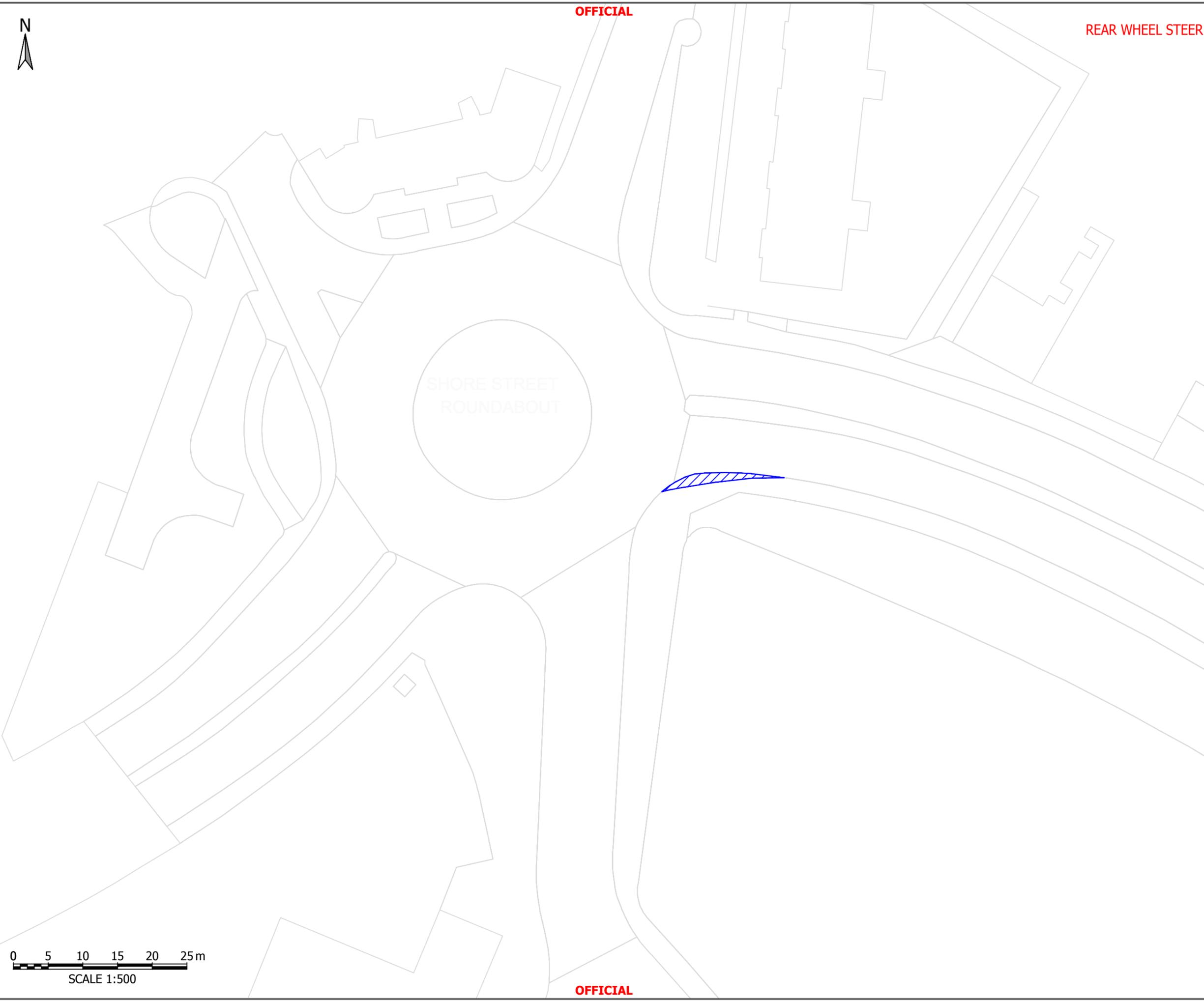


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REAR WHEEL STEER

Key:

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



SHORE STREET ROUNDABOUT

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

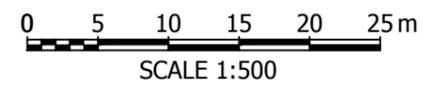
Sheet Title: REQUIRED REMEDIAL WORKS

PC: 42 Location: A82 SHORE STREET ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

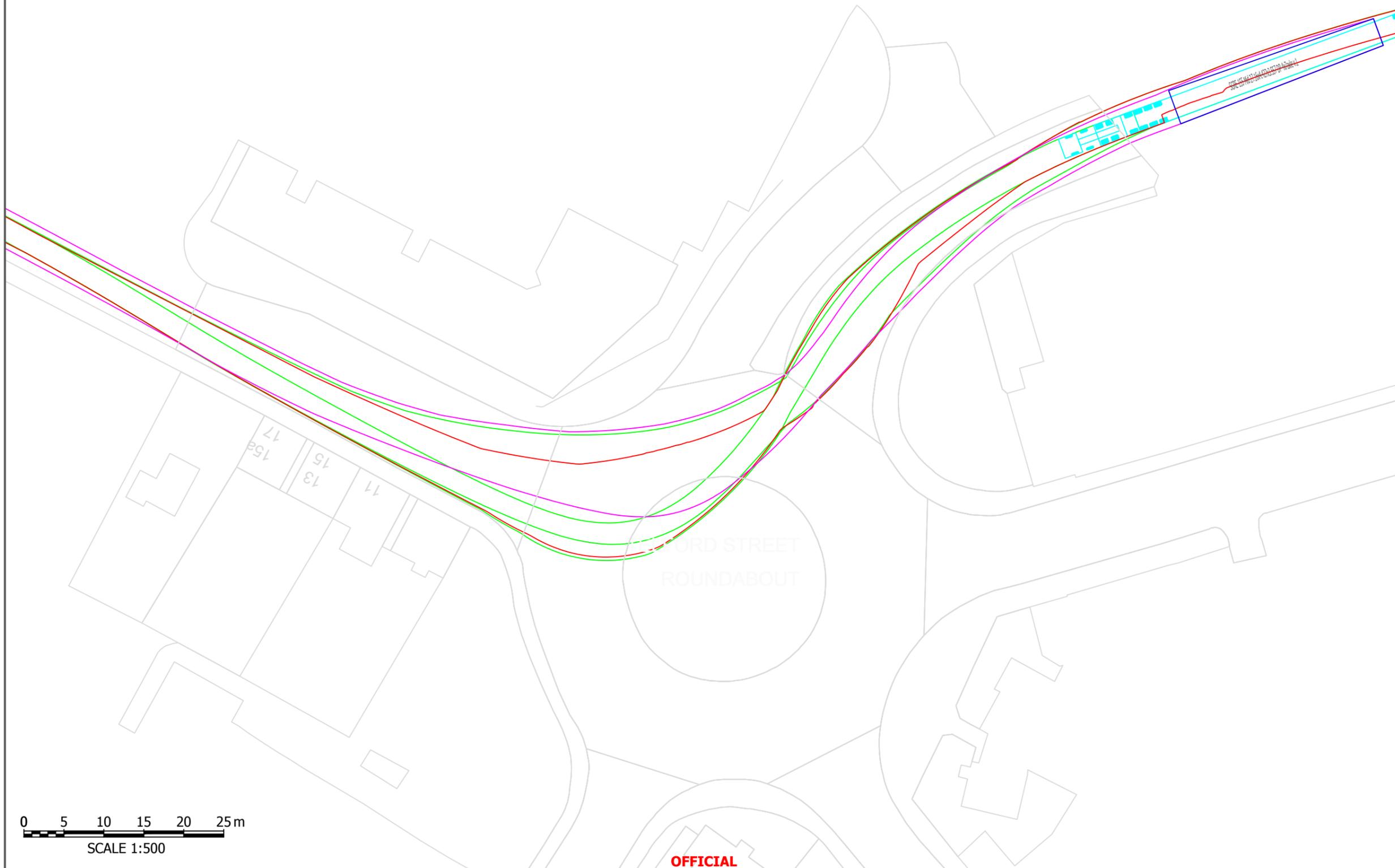
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR - SPA	040-2	P02	



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MID TOWER (Clamp and Clamp)

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



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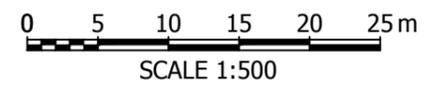


Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM
 Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: SWEEP PATH ASSESSMENT
 P01 Location: 43 A82 TELFORD STREET ROUNDABOUT

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Stability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 041	P02	



Key:

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



Load bearing surface to be laid in over-run area
(unmarked splitter island).
One road sign and one bollard to be removed.

Clearances to traffic signal head
to be confirmed during test-run.

Load bearing surface to be laid in
over-run area.
Two signs and one lit road sign to
be removed.

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENS GAMESA SG155 BLADE & TOWER

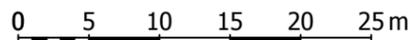
Sheet Title:
REQUIRED REMEDIAL WORKS

PC1	Location
43	A82 TELFORD STREET ROUNDABOUT

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	Stability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	041-2	P02



SCALE 1:500

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TOP TOWER (Step Frame)

Key:

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



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM
 Components: SIEMENSGAMESA SG155 BLADE & TOWER

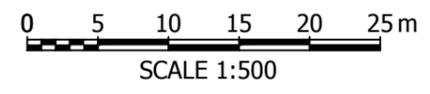
Sheet Title: SWEEP PATH ASSESSMENT

POI: 43 Location: A82 TELFORD STREET ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	041-3	P02



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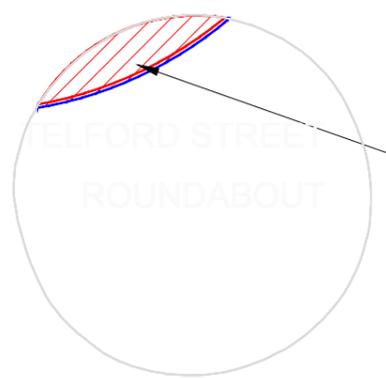
Key:

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



Load bearing surface to be laid in over-run area
(unmarked splitter island).
One road sign and one bollard to be removed.

Load bearing surface to be laid in
over-run area.
Two signs and one lit road sign to
be removed.



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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

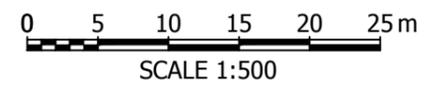
Sheet Title: REQUIRED REMEDIAL WORKS

POI Location: 43 A82 TELFORD STREET ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	041-4	P02



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MID TOWER (Clamp and Clamp)

Key:

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

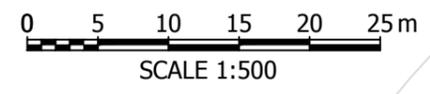
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
44 TELFORD STREET JUNCTION

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

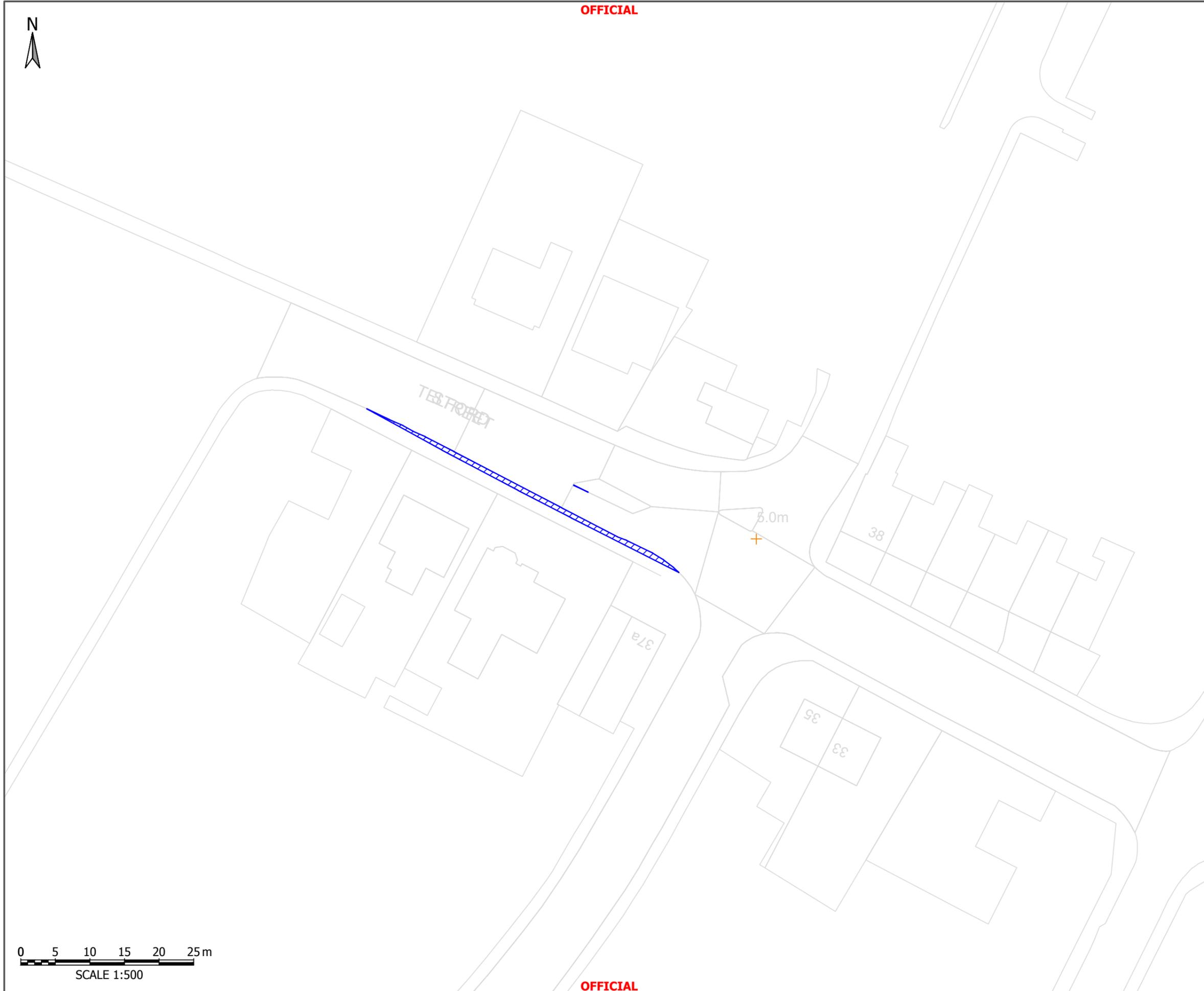
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A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 042	P02



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Key:

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

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Client

SSE RENEWABLES

Project Name

BHLARAIH EXT WIND FARM

Components

SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title

REQUIRED REMEDIAL WORKS

PGI

44 TELFORD STREET JUNCTION

Model Reference

N/A

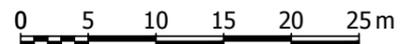
TTE Project Number Drawn By Date Checked By Date Approved By Date Scale @ A3 Suitability

A117008 LJ Mar '21 MG Mar '21 JD Mar '21 As Shown S0

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

PRJ01 - TTE - 00 - ZZ - DR - SPA - 042-2 P02

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SCALE 1:500

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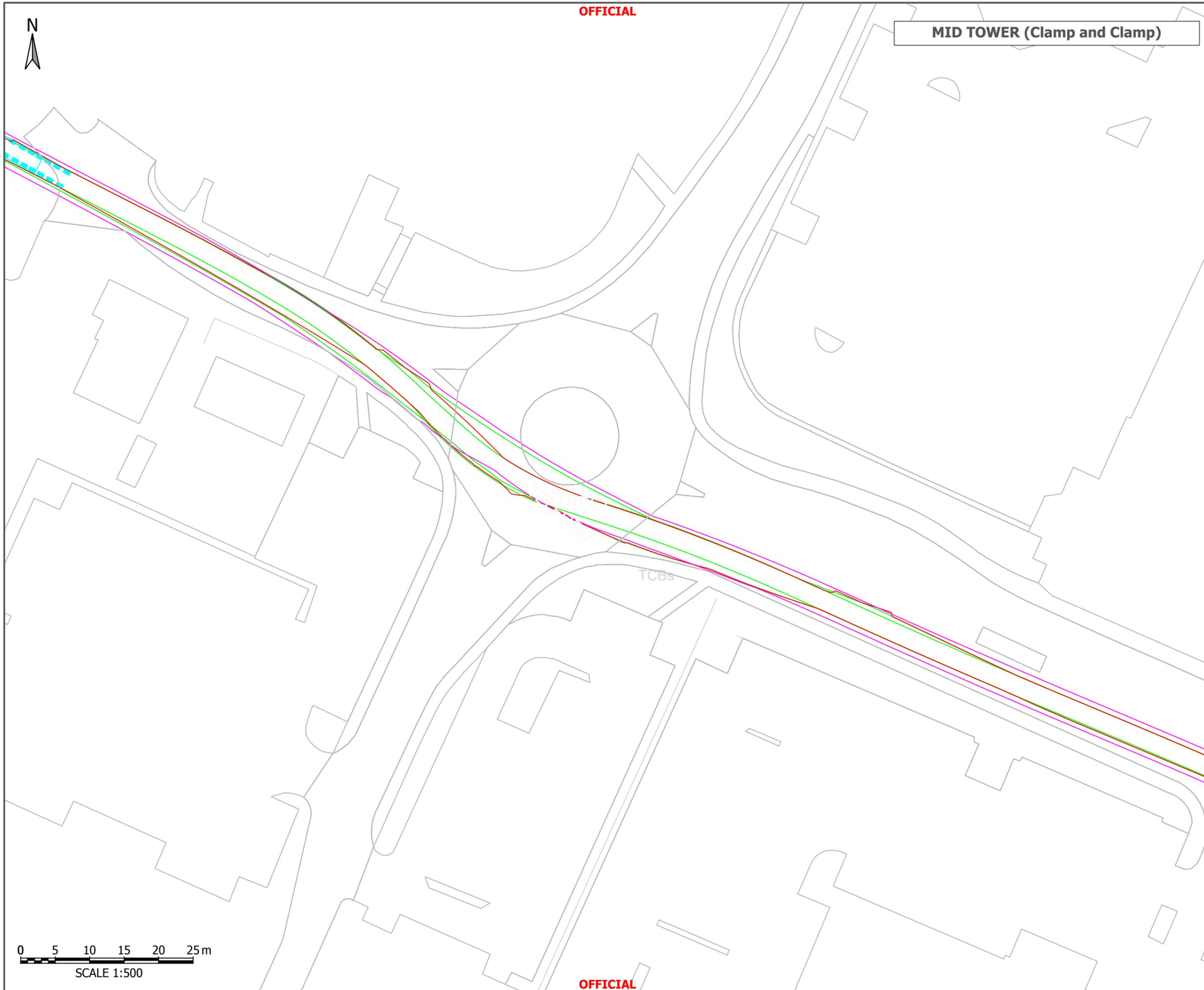
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MID TOWER (Clamp and Clamp)

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

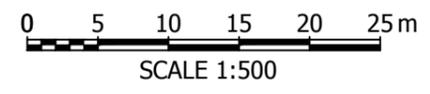
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
45 TELFORD ST / CARSGATE RD ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	043	P02



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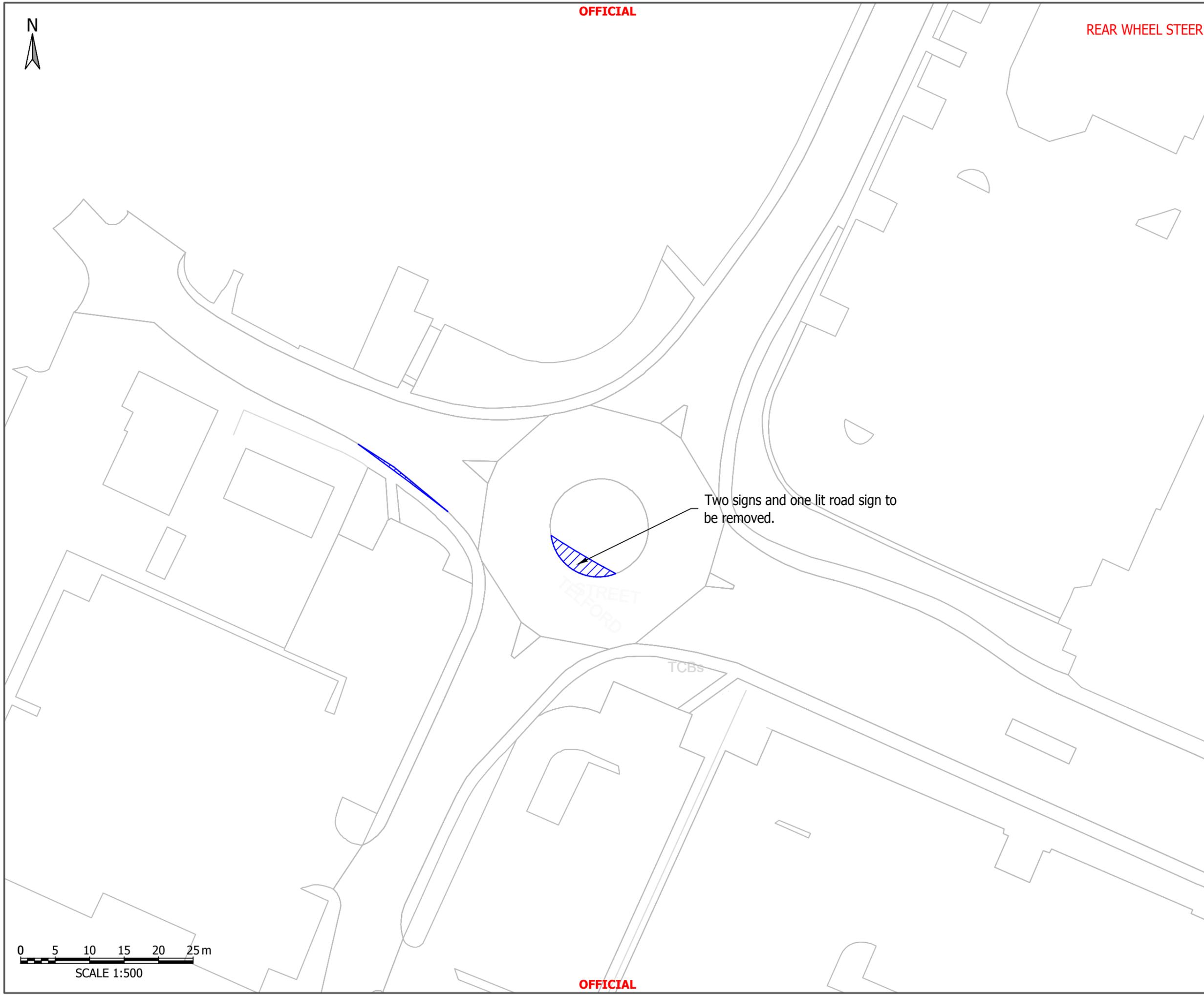


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REAR WHEEL STEER

Key:

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



Two signs and one lit road sign to be removed.

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

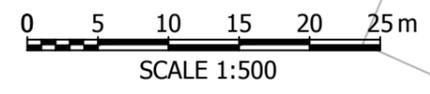
Sheet Title: REQUIRED REMEDIAL WORKS

POI	Location
45	TELFORD ST / CARSGATE RD ROUNDABOUT

Model Reference	N/A	DD 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: PRJ01 - TTE - 00 - ZZ - DR - SPA - 043-2 P02
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846300N

MID TOWER (Clamp and Clamp)

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

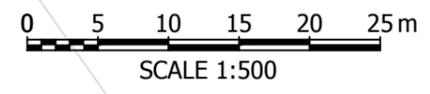
Sheet Title:
 SWEEP PATH ASSESSMENT

PCN Location:
47 A862 / SCORGUJE ROAD JUNCTION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	044	P02



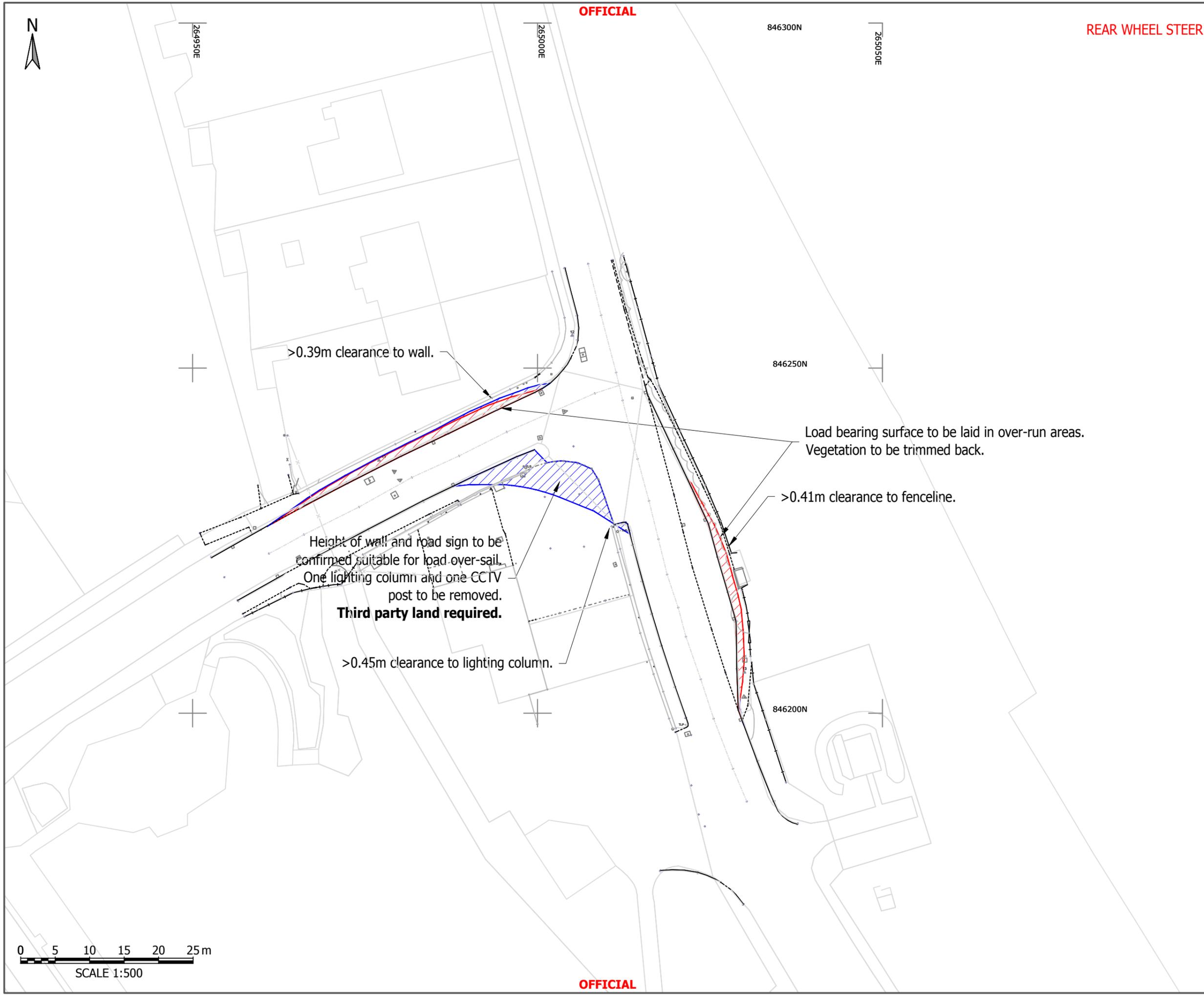
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REAR WHEEL STEER

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



>0.39m clearance to wall.

Load bearing surface to be laid in over-run areas.
Vegetation to be trimmed back.

>0.41m clearance to fenceline.

Height of wall and road sign to be confirmed suitable for load over-sail.
One lighting column and one CCTV post to be removed.
Third party land required.

>0.45m clearance to lighting column.

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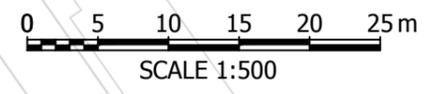
Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
47 A862 / SCORGUIE ROAD JUNCTION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
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PRJ01	TTE	00	ZZ	DR - SPA	044-2	P02		



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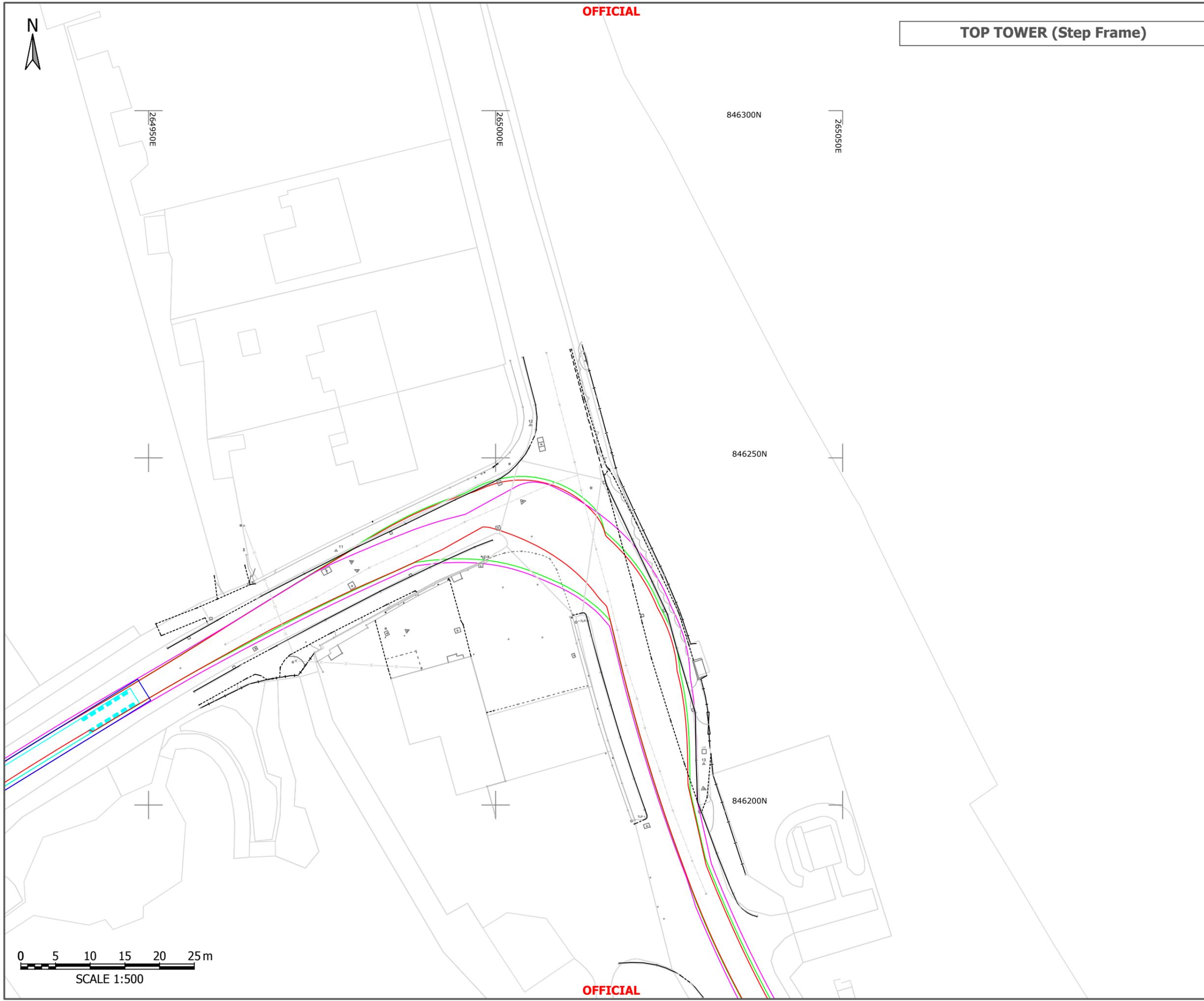


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TOP TOWER (Step Frame)

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

PII Location:
47 A862 / SCORGUIE ROAD JUNCTION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	044-3	P02



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REAR WHEEL STEER

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

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

846250N

846200N

Vegetation to be trimmed back.

Height of wall and road sign to be confirmed suitable for load over-sail.
One lighting column and one CCTV post to be removed.
Third party land required.

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PCN 47 Location: A862 / SCORGIE ROAD JUNCTION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 044-4 P02

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MID TOWER (Clamp and Clamp)

Key:

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

845600N

845600N

33.6m

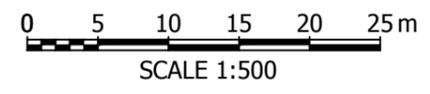
845550N

845550N

264900E
845500N

264950E

265000E
845500N



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 Client:



SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
48 SCOURGIE RD / KING BRUDE RD JUNCTION

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

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	045	P02



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REAR WHEEL STEER

Key:

-  OVER-SAIL REQUIRED
-  OVER-RUN REQUIRED
-  TOPOGRAPHICAL SURVEY MAPPING

845650N
264900E

264950E

845650N
265000E

845600N

845600N

33.6m

Load bearing surface to be laid in over-run area.
 Utilities to be protected.
 Embankment re-profiling potentially required to accommodate load over-sail.
 One road sign to be removed.
 Limits of adoption to be confirmed.

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

845550N

845550N

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Rev	Description	Date	Drn / Ck / App
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P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

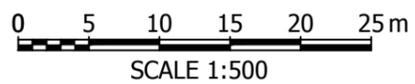
Sheet Title:
REQUIRED REMEDIAL WORKS

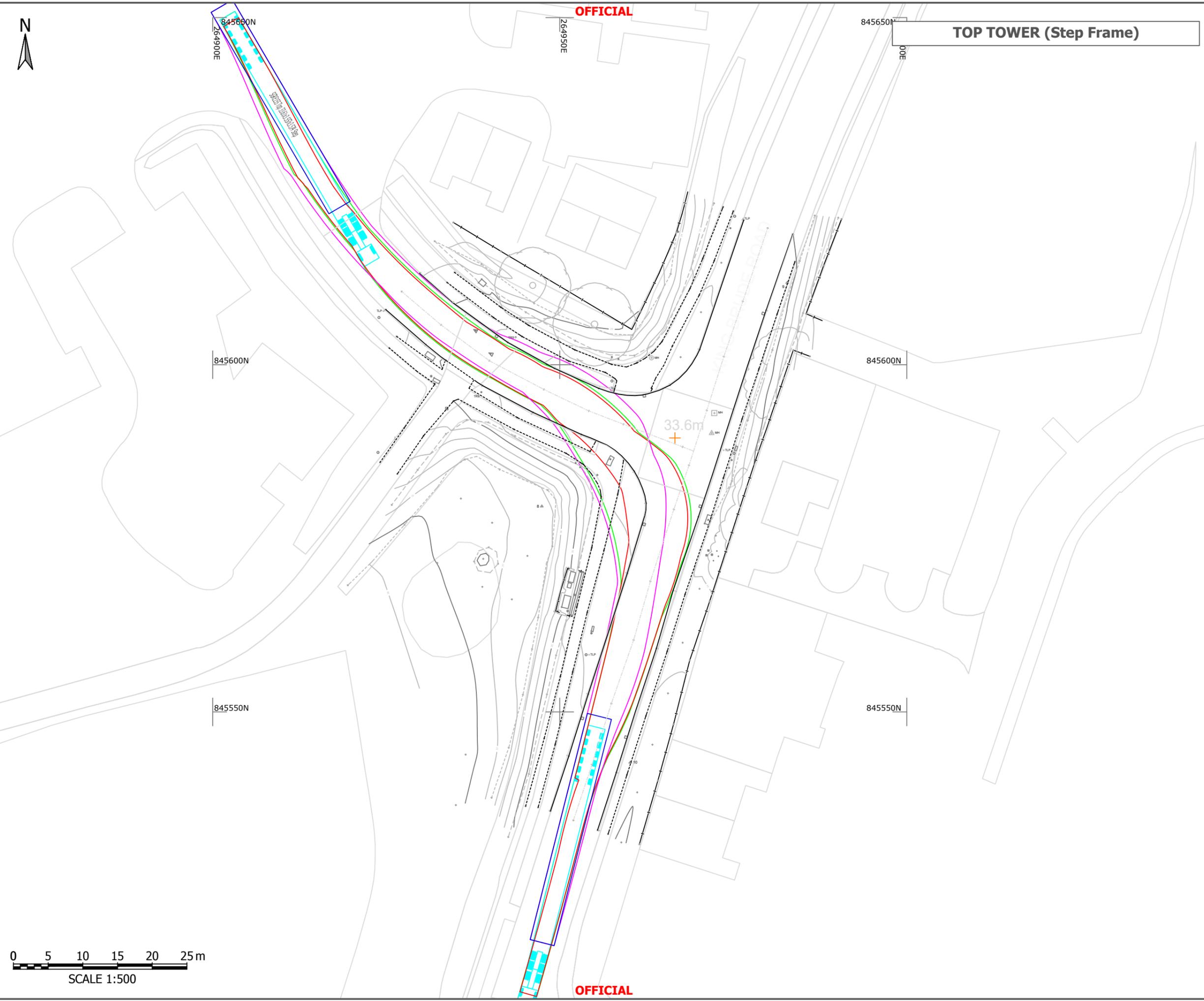
PCN Location:
48 SCOURGIE RD / KING BRUDE RD JUNCTION

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

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	045-2	P02





TOP TOWER (Step Frame)

- Key:**
- LOAD SWEEP PATH
 - VEHICLE SWEEP PATH
 - WHEEL SWEEP PATH
 - TOPOGRAPHICAL SURVEY MAPPING

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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

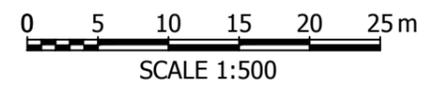
Sheet Title:
SWEEP PATH ASSESSMENT

PCN Location:
48 SCOURGIE RD / KING BRUDE RD JUNCTION

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	045-3	P02





845650N

264900E

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264950E

845650N

265000E

REAR WHEEL STEER

Key:

- OVER-SAIL REQUIRED
- OVER-RUN REQUIRED
- TOPOGRAPHICAL SURVEY MAPPING

845600N

845600N

33.6m

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

845550N

845550N

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

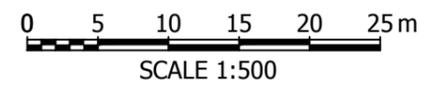
Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
48 SCOURGIE RD / KING BRUDE RD JUNCTION

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	045-4	P02



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MID TOWER (Clamp and Clamp)

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

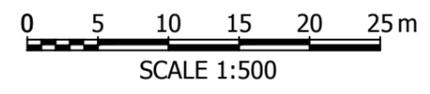
843800N

265250E

843750N

843700N

265250E



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
 50 GENERAL BOOTH RD / A82 ROUNDABOUT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	00	ZZ	DR - SPA		046	P02	



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REAR WHEEL STEER

Key:

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

843800N

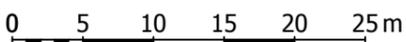
265250E

843750N

265250E

843700N

265250E



SCALE 1:500

265250E

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Limits of adoption to be confirmed.
All street furniture to be removed inclusive of one lighting column.
NB. Roundabout still under construction at time of site visit.

Loads to be raised to maximum suspension to over-sail raised roundabout.
All street furniture to be removed.
NB. Roundabout still under construction at time of site visit.

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Client: SSE RENEWABLES

Project Name: BHLARAI DH EXT WIND FARM

Components: SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

PCN: 50 Location: GENERAL BOOTH RD / A82 ROUNDABOUT

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

Client Project Number: PRJ01 - TTE - 00 - ZZ - DR - SPA - 046-2 P02
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MID TOWER (Clamp and Clamp)

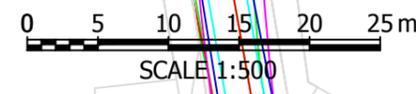
TOP TOWER (Step Frame)

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

36.5m

36.5m



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SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

PC1 Location:
51 A82 / A831 JUNCTION, DRUMNADROCHIT

Model Reference	DDP IDP Reference	LOD/L01
N/A	-	-

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	047	P02

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REAR WHEEL STEER

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

Load bearing surface to be laid in over-run area.
Load bearing capacity of bridge footway to be confirmed.

36.5m

Load bearing surface to be laid in over-run area.
Utilities to be protected.
Section of wall to be removed and car park to be used for over-run and over-sail.
Third party land required.

Bank

Load bearing surface to be laid in over-run area.
Section of wall and wooden fence to be over-sailed.
Trees and vegetation to be cleared.
Limits of adoption to be confirmed.

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

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Client: SSE RENEWABLES

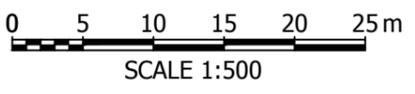
Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title: REQUIRED REMEDIAL WORKS

POI Location:
51 A82 / A831 JUNCTION, DRUMNADROCHIT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR - SPA	- 047-2	P02		



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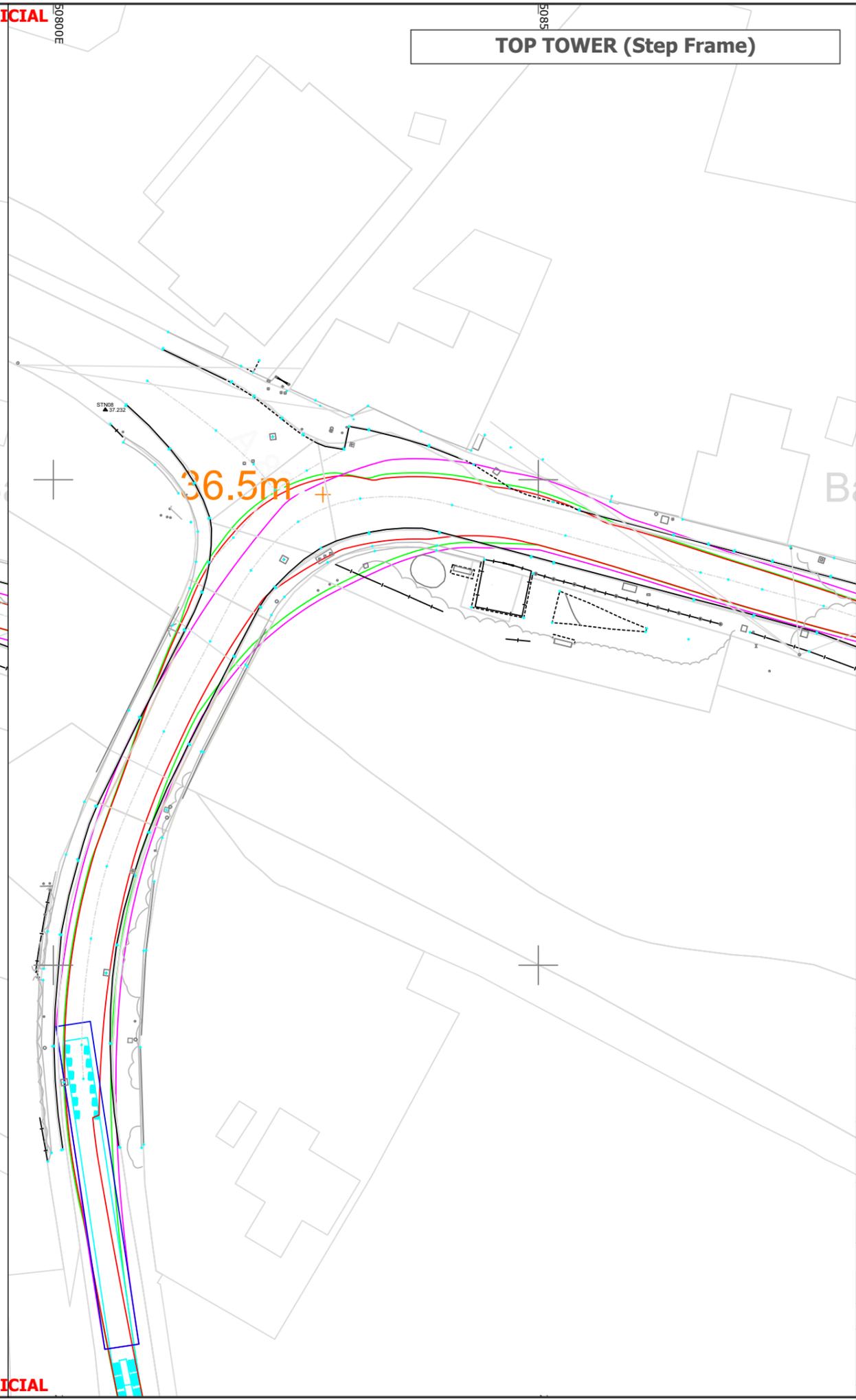
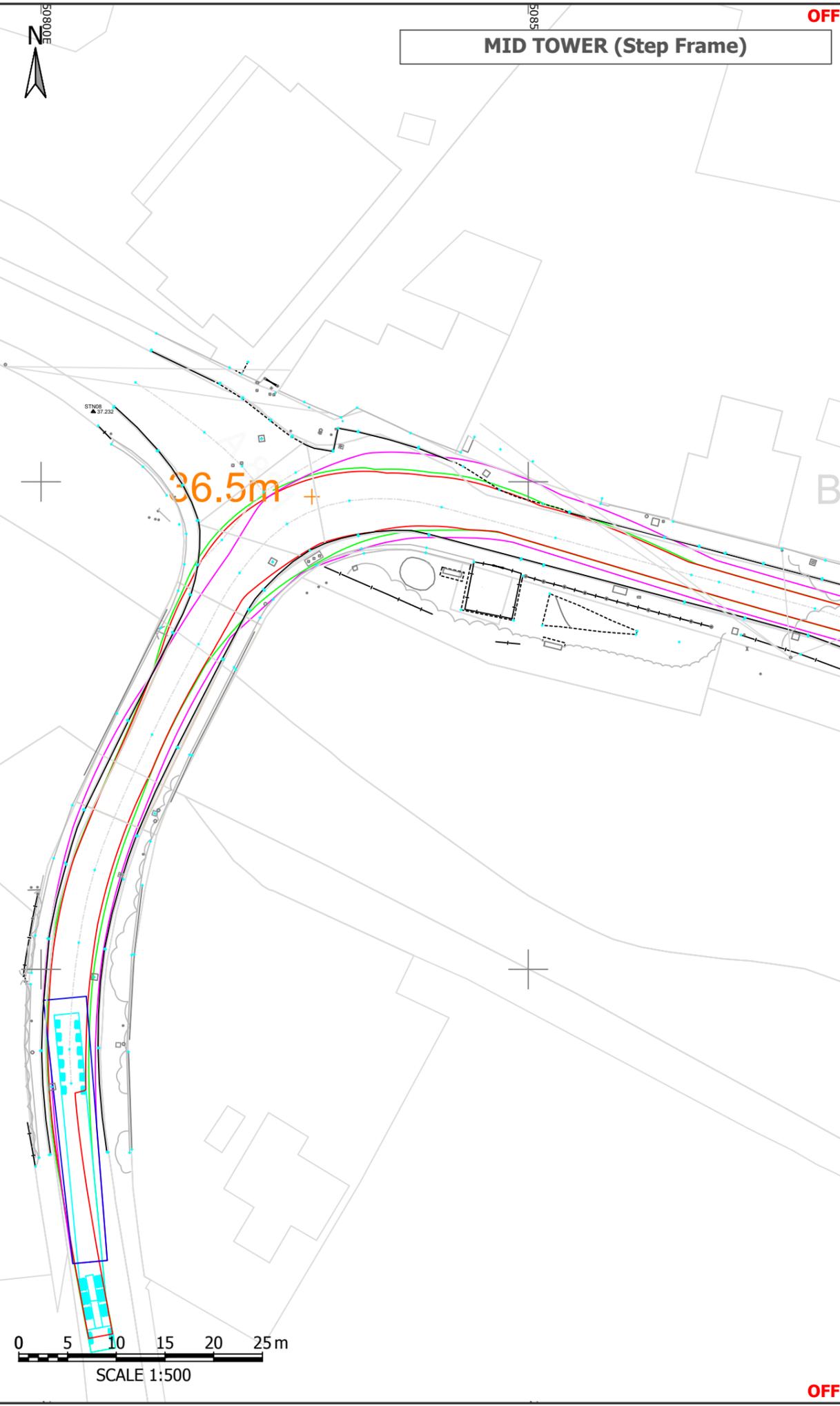


MID TOWER (Step Frame)

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TOP TOWER (Step Frame)

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



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Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
SWEEP PATH ASSESSMENT

PC1 Location:
51 A82 / A831 JUNCTION, DRUMNADROCHIT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	047-3	P02

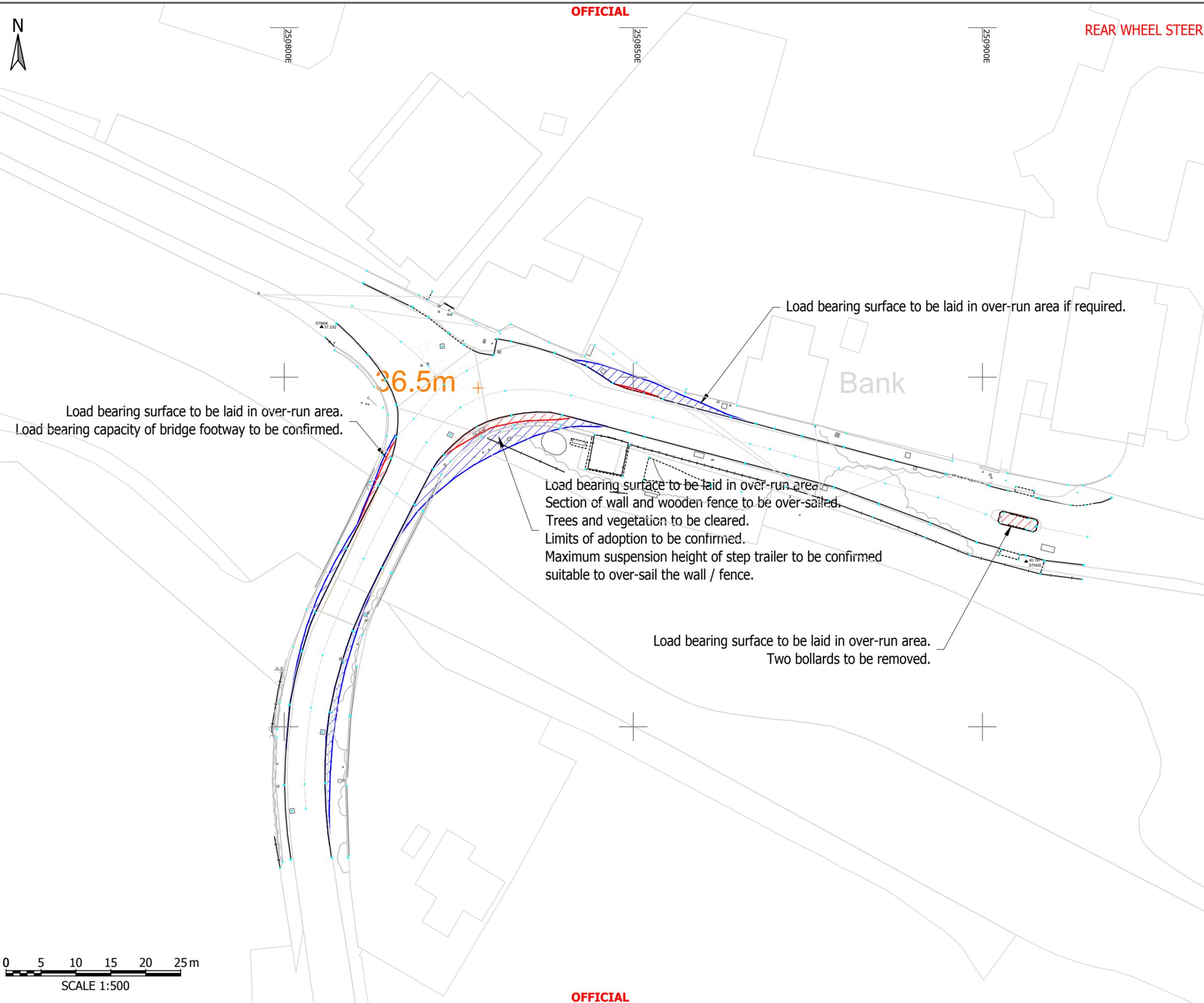
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REAR WHEEL STEER

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

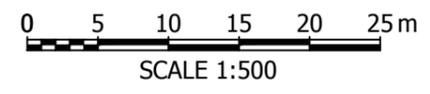
Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

REQUIRED REMEDIAL WORKS

POI Location:
51 A82 / A831 JUNCTION, DRUMNADROCHIT

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Suitability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
PRJ01	TTE	- 00	- ZZ	- DR - SPA	- 047-4	P02		

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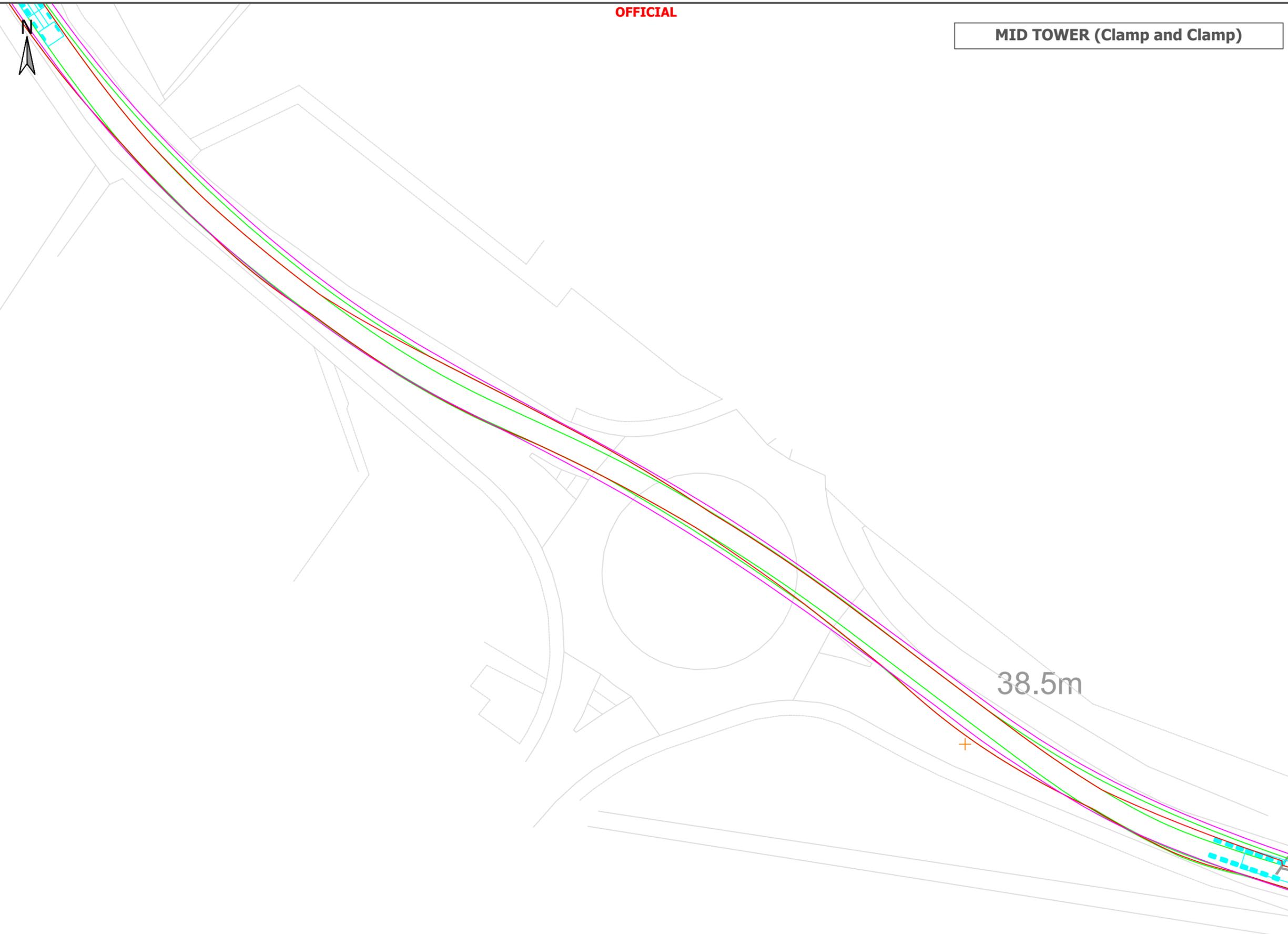


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MID TOWER (Clamp and Clamp)

Key:

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



38.5m

DRAFT ISSUE

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENS GAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

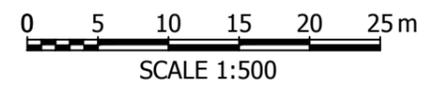
POI Location:
52 A82 ROUNDABOUT, DRUMNADROCHIT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	048	P02

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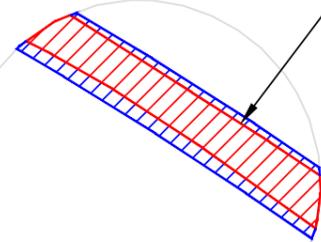
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Key:

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

Load bearing surface to be laid in over-run area.
 One combined lit road and chevron sign to be removed.



38.5m

A82

DRAFT ISSUE

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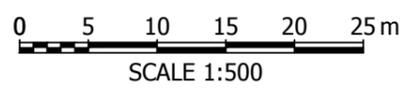
SSE RENEWABLES

BHLARAIH EXT WIND FARM

SIEMENSGAMESA SG155 BLADE & TOWER

REQUIRED REMEDIAL WORKS

52 A82 ROUNDABOUT, DRUMNADROCHIT



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MID TOWER (Clamp and Clamp)

Key:

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



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SSE RENEWABLES

Project Name:
BHLARAIH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

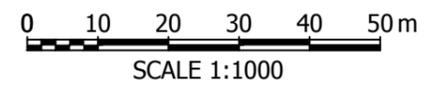
Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
53 A82 RIGHT BEND, STRONE

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	Stability
A117008	LJ	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

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PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 049	P02



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Key:

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

Vegetation to be trimmed back.
Test-run recommended.

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Client
SSE RENEWABLES

Project Name
BHLARAIH EXT WIND FARM

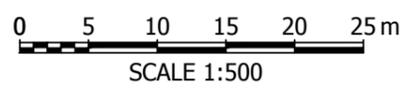
Components
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title
REQUIRED REMEDIAL WORKS

P02 Location
53 A82 RIGHT BEND, STRONE

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	- TTE	- 00	- ZZ	- DR	- SPA	- 049-2	P02



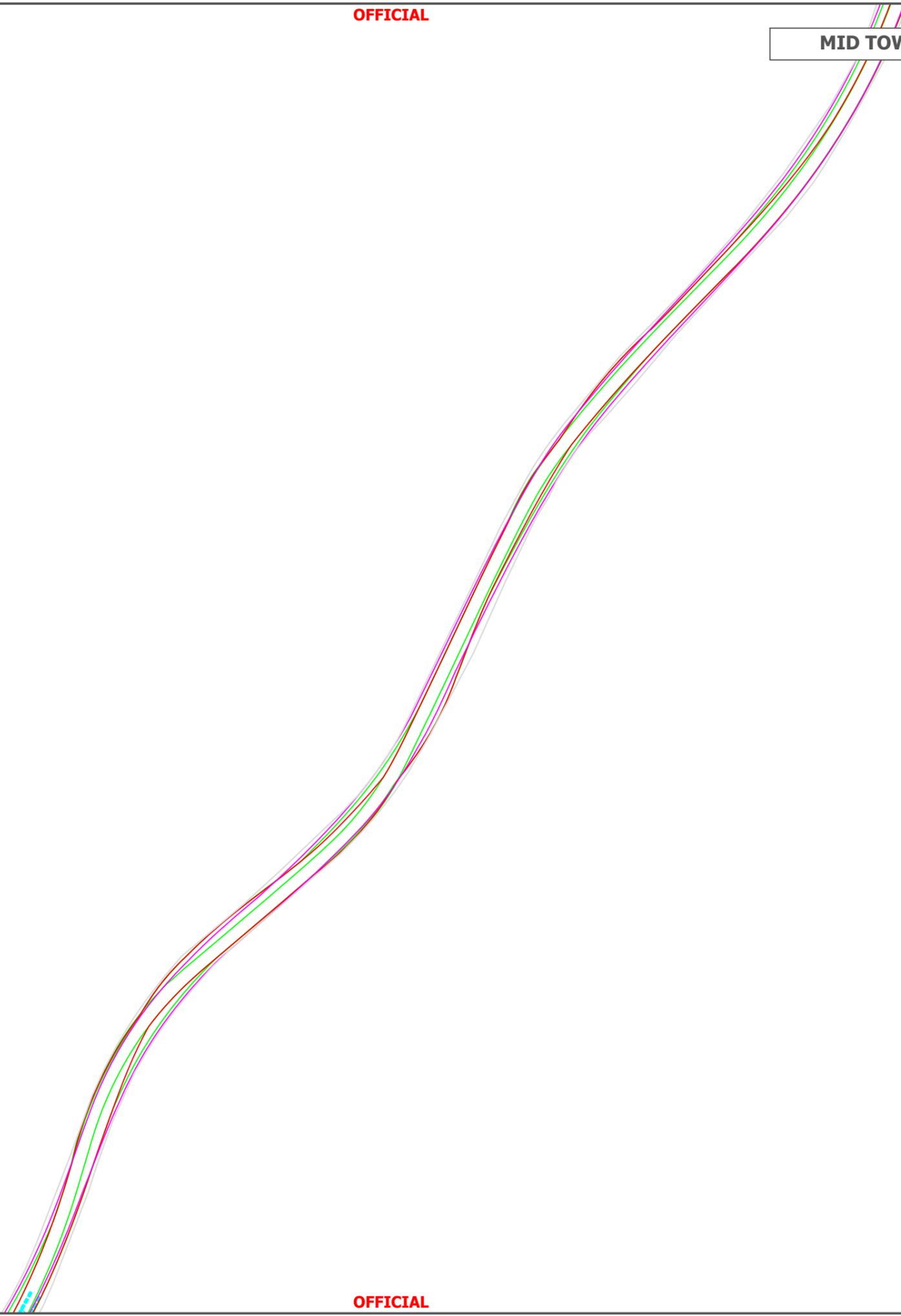
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MID TOWER (Clamp and Clamp)

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



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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

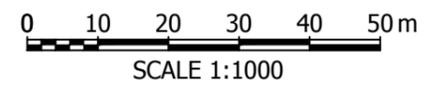
Sheet Title:
 SWEEP PATH ASSESSMENT

POI Location:
54 A82 SERIES OF BENDS SOUTH OF STRONE

Model Reference	DDP 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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PRJ01	TTE	00	ZZ	DR	SPA	050	P02



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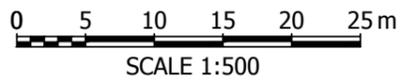
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Key:

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

Vegetation to be trimmed back.
Test-run recommended.



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DRAFT ISSUE

Rev	Description	Date	Dr	CHK	App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ	MG	JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ	MG	JD

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Client
SSE RENEWABLES

Project Name
BHLARAIHD EXT WIND FARM

Components
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title
REQUIRED REMEDIAL WORKS

PCB Location
54 A82 SERIES OF BENDS SOUTH OF STRONE

Model Reference
N/A

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	050-2	P02



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MID TOWER (Clamp and Clamp)

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

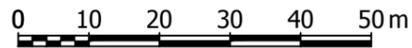
Sheet Title:
 SWEEP PATH ASSESSMENT

POI	Location
55	A82 SERIES OF BENDS SOUTH OF BUNLOIT

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	051	P02



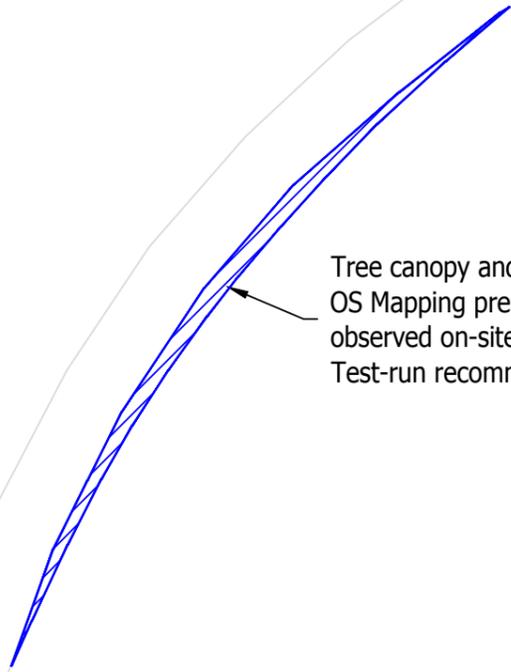
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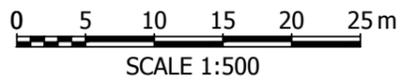
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- Key:
-  OVER-SAIL REQUIRED
 -  OVER-RUN REQUIRED
 -  ORDNANCE SURVEY MAPPING



Tree canopy and vegetation to be trimmed back.
 OS Mapping presents a narrower road alignment than
 observed on-site.
 Test-run recommended.



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DRAFT ISSUE

Rev	Description	Date	Drn / Csk / App
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P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client
SSE RENEWABLES

Project Name
BHLARAIH EXT WIND FARM

Components
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title
REQUIRED REMEDIAL WORKS

PCB Location
55 A82 SERIES OF BENDS SOUTH OF BUNLOIT

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

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	-SPA-	051-2	P02

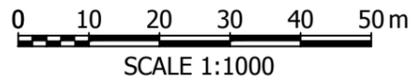


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MID TOWER (Clamp and Clamp)

Key:

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



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DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
56 A82 SERIES OF BENDS BALBEG

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	052	P02

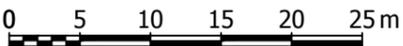


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REAR WHEEL STEER

Key:

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



SCALE 1:500

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Tree canopy and vegetation to be trimmed back.
OS Mapping presents a narrower road alignment than
observed on-site.
Test-run recommended.

DRAFT ISSUE

Rev	Description	Date	Drn / CDR / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client:
SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
56 A82 SERIES OF BENDS BALBEG

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	052-2	P02



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MID TOWER (Clamp and Clamp)

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEEP PATH ASSESSMENT

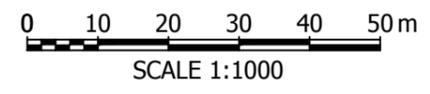
POI Location:
56 A82 SERIES OF BENDS BALBEG

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	052-3	P02

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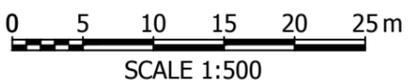


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REAR WHEEL STEER

Key:

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



Tree canopy and vegetation to be trimmed back.
Test-run recommended.

Tree canopy and vegetation to be trimmed back.
Test-run recommended.

DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client:
SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

PCN Location:
56 A82 SERIES OF BENDS BALBEG

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	052-4	P02

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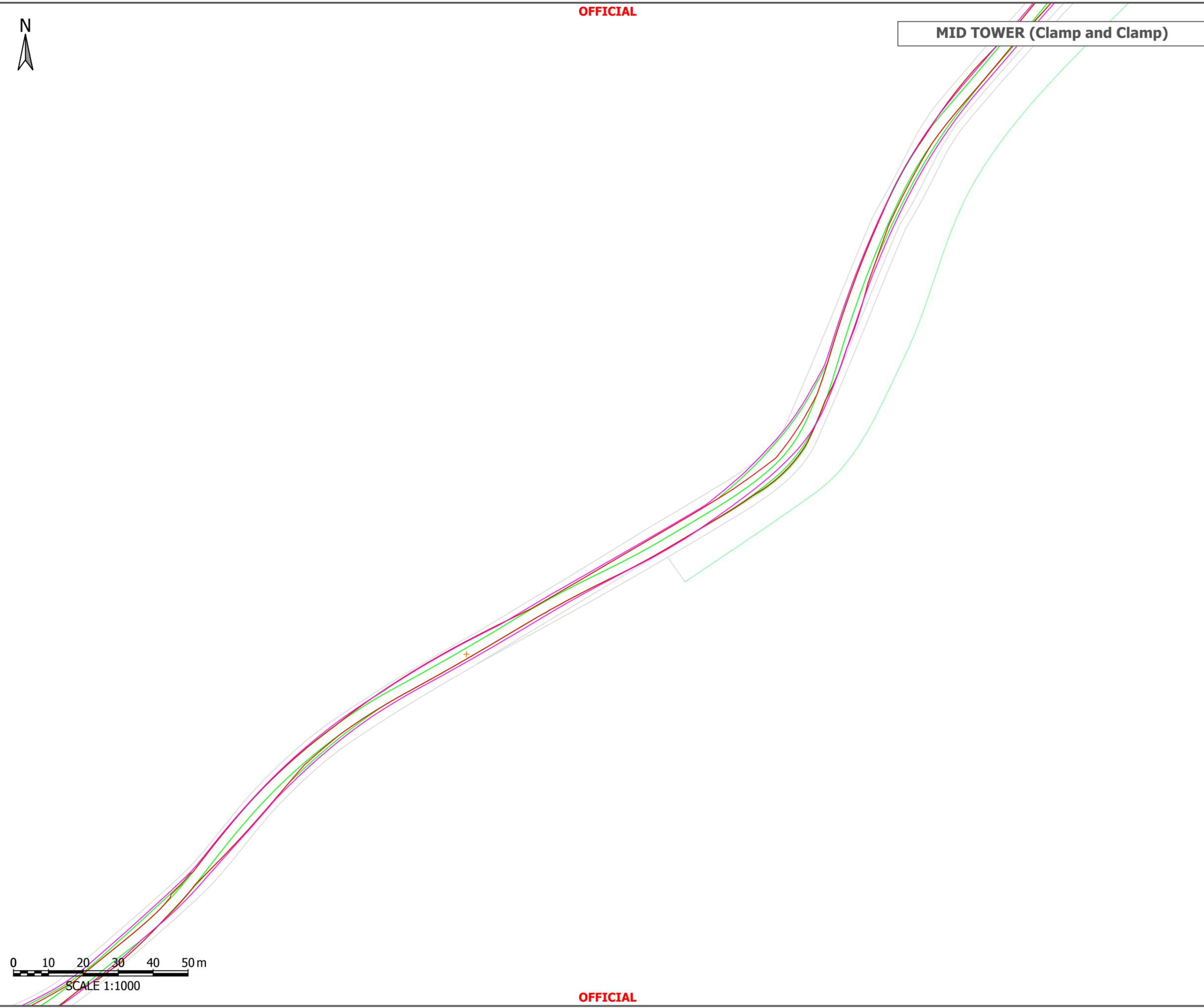
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MID TOWER (Clamp and Clamp)

Key:

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



DRAFT ISSUE

Rev	Description	Date	Drn / Ck / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
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Client: SSE RENEWABLES

Project Name:
BHLARAI DH EXT WIND FARM

Components:
 SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
 SWEPT PATH ASSESSMENT

POI Location:
57 AB2 SERIES OF BENDS SOUTH OF ALLTSIGH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	- 00	- ZZ	- DR	- SPA	- 053	P02



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REAR WHEEL STEER

Key:

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

Vegetation to be trimmed back.
Test-run recommended.

Two bollards to be removed to improve clearances.
Vegetation to be trimmed back.
Test-run recommended.

DRAFT ISSUE

Rev	Description	Date	Drn / CDR / App
P02	SECONDARY DRAFT ISSUE	26.03.2021	LJ MG JD
P01	PRELIMINARY DRAFT ISSUE	05.03.2021	LJ MG JD

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Client: SSE RENEWABLES

Project Name:
BHLARAIDH EXT WIND FARM

Components:
SIEMENSGAMESA SG155 BLADE & TOWER

Sheet Title:
REQUIRED REMEDIAL WORKS

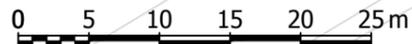
POI Location:
57 A82 SERIES OF BENDS SOUTH OF ALLTSIGH

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	Mar '21	MG	Mar '21	JD	Mar '21	As Shown	S0

Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision
PRJ01	TTE	00	ZZ	DR	SPA	053-2	P02

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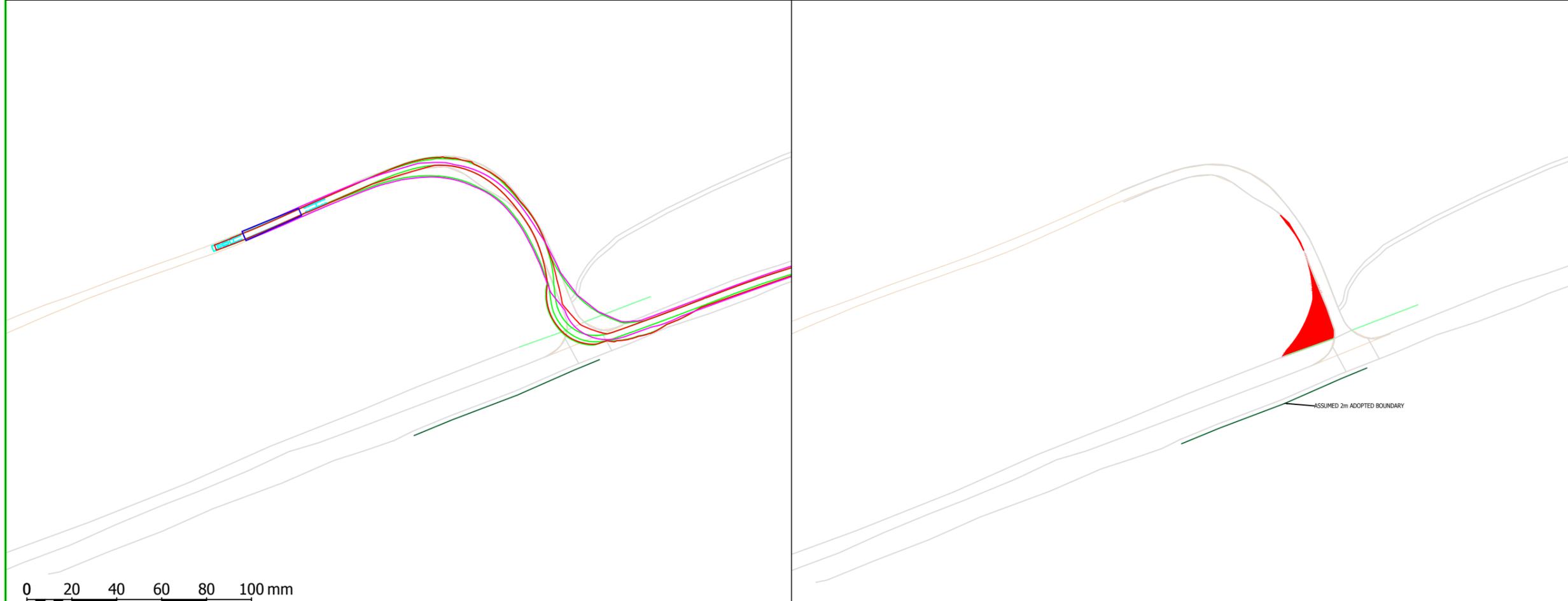
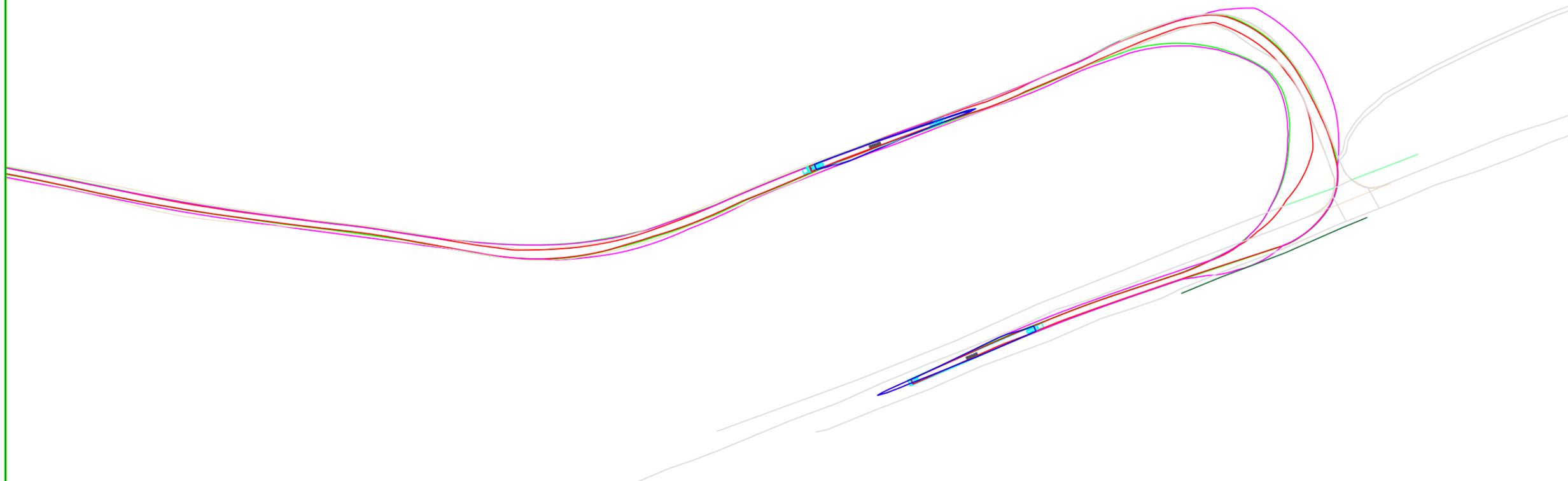
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Key:

- LOAD SWEPT PATH
- VEHICLE SWEPT PATH
- WHEEL SWEPT PATH
- OVER-RUN AREA REQUIRED
- CLIENT PROVIDED ON-SITE MAPPING



PRELIMINARY ISSUE

Rev	Description	Date	Issued By	Checked By	Appr. By
P02	PRELIMINARY SECOND ISSUE	11.02.2021	LJ	MG	JD
P01	PRELIMINARY FIRST ISSUE	25.01.2021	LJ	MG	JD

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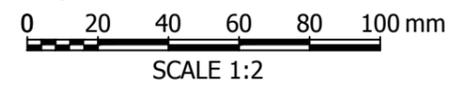


Client: SSE RENEWABLES

Project Name: BHLARAIDH EXT WIND FARM

Sheet Title:
SG155 BLADE & TOWER - SITE ACCESS
ON-SITE TRACK (MANUAL STEER)

Model Reference	N/A	DDP IDP Reference	LOD/LOI
TTE Project Number	Drawn By	Checked By	Approved By
A117499	Feb '21	MG	Feb '21
Client Project Number	Originator	Volume/System	Level/Location
PRJ01	TTE	00	ZZ
	Type/Code	Role	Number
	DR	SK	001
			Revision
			P02



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