

Tangy IV Wind Farm Section 36C Variation

Technical Appendix 12.1: Abnormal Indivisible Load Route Survey

Pell Frischmann

Tangy IV Wind Farm

Abnormal Indivisible Load Route Survey

April 2026

10111065

This report is to be regarded as confidential to our Client and is intended for their use only and may not be assigned except in accordance with the contract. Consequently, and in accordance with current practice, any liability to any third party in respect of the whole or any part of its contents is hereby expressly excluded, except to the extent that the report has been assigned in accordance with the contract. Before the report or any part of it is reproduced or referred to in any document, circular or statement and before its contents or the contents of any part of it are disclosed orally to any third party, our written approval as to the form and context of such a publication or disclosure must be obtained.

Report Ref.		260525 Tangy Iv Rsr				
File Path		https://pellf.sharepoint.com/sites/EdinburghOfficeTeam/Shared Documents/General/Projects/10111065 SSE Tangy IV S36C/01 - WIP/Reports/260525 Tangy IV RSR.docx				
Rev	Suit	Description	Date	Originator	Checker	Approver
01		Draft	21/04/2026	G Buchan	S Cochrane	G Buchan
02		Final	25/05/2026	G Buchan	S Cochrane	G Buchan

Ref. reference. Rev revision. Suit suitability.

Prepared for**SSE Renewables**

1 Waterloo Street
Glasgow
G2 6AY

Prepared by**Pell Frischmann Limited**

93 George Street
Edinburgh
EH2 3ES



Pell Frischmann

Contents

1	Introduction	1
2	Site Background.....	2
2.1	Site Location	2
2.2	Candidate Turbine.....	2
2.3	Proposed Delivery Equipment	3
3	Access Route Review	5
3.1	Ports of Entry (POE).....	5
3.2	Proposed Access Route.....	5
3.3	Route Constraints	6
3.4	Swept Path Assessment Results and Summary	17
3.6	Weight Review	18
3.7	Summary Issues	18
4	Summary	20
4.1	Summary of Access Review	20
4.2	Further Actions.....	20

Figures

Figure 2-1: Site Location Plan	2
Figure 2-2: Super Wing Carrier Trailer.....	3
Figure 2-3: Tower Trailer.....	3
Figure 3-1: Proposed Access Route.....	6

Tables

Table 2-1: Turbine Components Summary	2
Table 3-1: Constraint Summary.....	7
Table 3-2: ESDAL Contacts	18

Appendices

Appendix A Points of Interest	
Appendix B Swept Path Assessments	
Appendix C ESDAL Responses	

1 Introduction

Pell Frischmann (PF) have been commissioned by SSE Renewables (the Applicant) to undertake a survey of the Abnormal Indivisible Load (AIL) delivery route for wind turbine loads associated with the construction and development of Tangy IV Wind Farm, located to the north of Campbeltown, Argyll.

This Route Survey Report (RSR) has been prepared to help inform the Applicant of the issues associated with the development of the site with regards to off-site transport and access for AIL traffic. The report identifies the key issues associated with AIL deliveries and notes what remedial works, either in the form of physical works or as traffic management interventions, will be required to accommodate the predicted loads.

No liability is accepted for the use of all or part of this report by third parties. This report is © Copyright of PF 2026 and the Applicant. No section of this report may be reproduced without prior written approval.

The detailed assessment and subsequent designs of any remedial works are beyond the agreed scope of works between PF and the Applicant at this point in time.

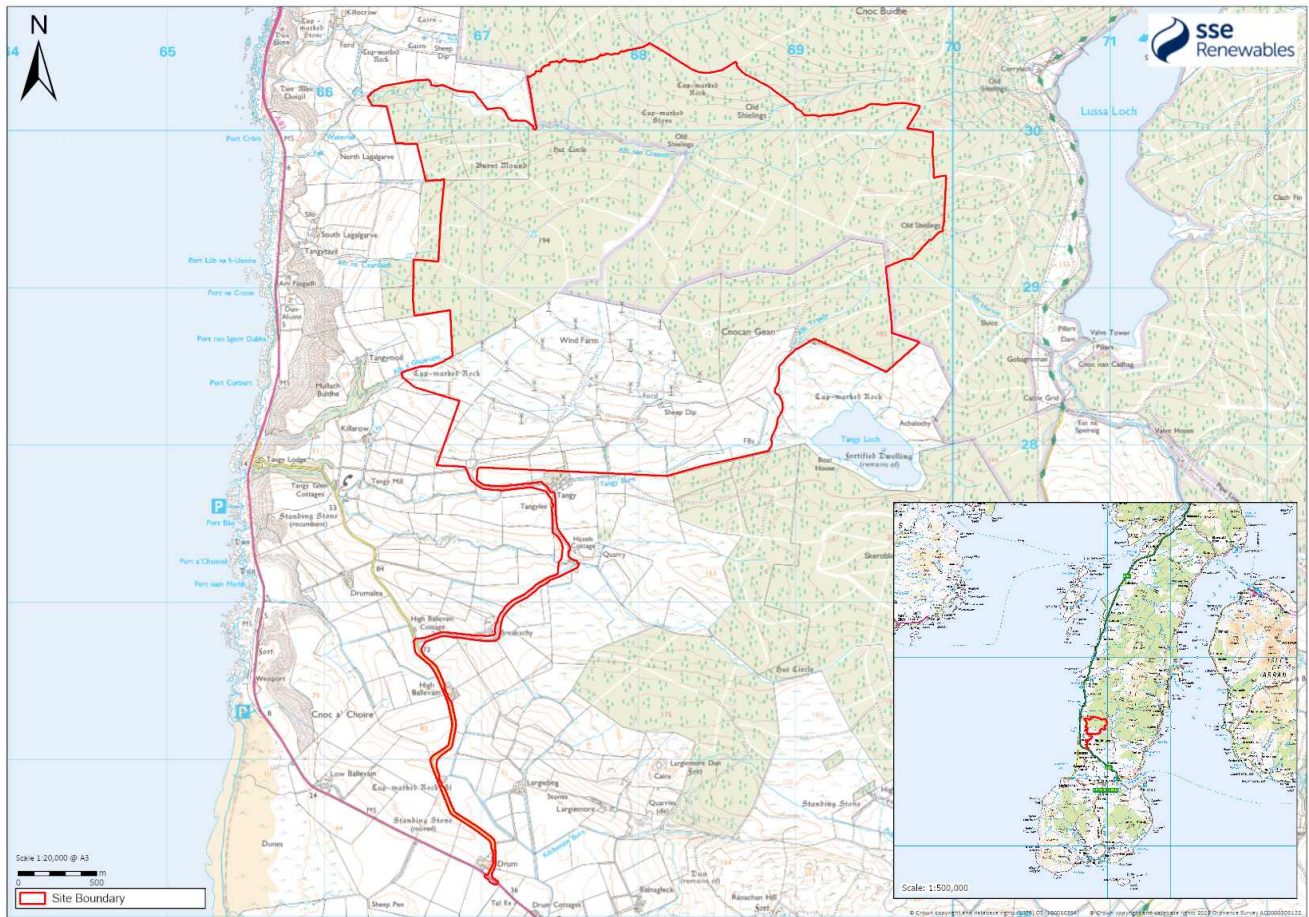
It is the responsibility of the wind turbine supplier to ensure that the entirety of the proposed access route is suitable and meets with their satisfaction (depending upon contract). The turbine supplier will be responsible for ensuring that the finalised proposals meet with the appropriate levels of health and safety consideration for all road users and are in line with the relevant legislation at the time of delivery.

2 Site Background

2.1 Site Location

The development site is located to the north of Campbeltown, Argyll. Figure 2-1 illustrates the general site location.

Figure 2-1: Site Location Plan



2.2 Candidate Turbine

The Applicant has indicated that they wish to consider the use of a Nordex N149 turbine at a 200 metre (m) tip height as the worst-case candidate. Details of the components as supplied by Nordex are summarised in Table 2-1.

Table 2-1: Turbine Components Summary

Component	Length (m)	Width (m)	Height / Min Diameter (m)	Weight (t)
N149 Blade	72.400	4.500	3.450	22.940
Top Tower Section	20.890	3.420	3.260	31.080
Mid Tower 5 Section	23.550	3.730	3.420	45.780
Mid Tower 4 Section	28.200	4.280	3.730	70.230
Mid Tower 3 Section	21.120	4.290	4.280	71.430
Mid Tower 2 Section	16.440	4.310	4.290	77.850
Mid Tower 1 Section	12.010	4.300	4.310	79.260
Base Tower Section	20.890	3.420	3.260	31.080
Nacelle	12.770	4.330	4.030	68.300

Component	Length (m)	Width (m)	Height / Min Diameter (m)	Weight (t)
Drive Train	6.730	3.670	3.250	73.300
Hub	5.250	4.640	4.000	63.600

The detailed assessment has considered the blade and a combined worst case tower load (28.200m in length by 4.31m / 4.3m in diameter). The proposed onsite transformer will fit within the kinematic envelope of the turbine loads and as such does not need a separate assessment.

2.3 Proposed Delivery Equipment

To provide a robust assessment scenario based on the known issues along the access route, it has been assumed that all blades would be carried on a Super Wing Carrier (SWC) trailer or similar to reduce the need for mitigation in constrained sections of the route, shown in Figure 2-2.

Figure 2-2: Super Wing Carrier Trailer



Towers would be carried in a 4+7 clamp adaptor style trailer shown in Figure 2-3, whereas loads such as the hub, nacelle housing and top towers would be carried on a six-axle step frame trailer.

Figure 2-3: Tower Trailer



These configurations are subject to confirmation by the chosen haulier at the time of their commissioning. As the loads are classified as Special Order, due to a rigid length in excess of 30 m, a full Police Escort would be required along the full length of the route.

3 Access Route Review

3.1 Ports of Entry (PoE)

The closest port is located at Campbeltown. This facility has been extensively used for turbine delivery and exports, having been used for the original Tangy Wind Farm farms and the export of large tower sections by CS Wind.

The pier has limited storage capacity and as such, it is assumed that the former CS Wind factory at Machrihanish could potentially be used for the temporary storage of components, should this be necessary.

3.2 Proposed Access Route

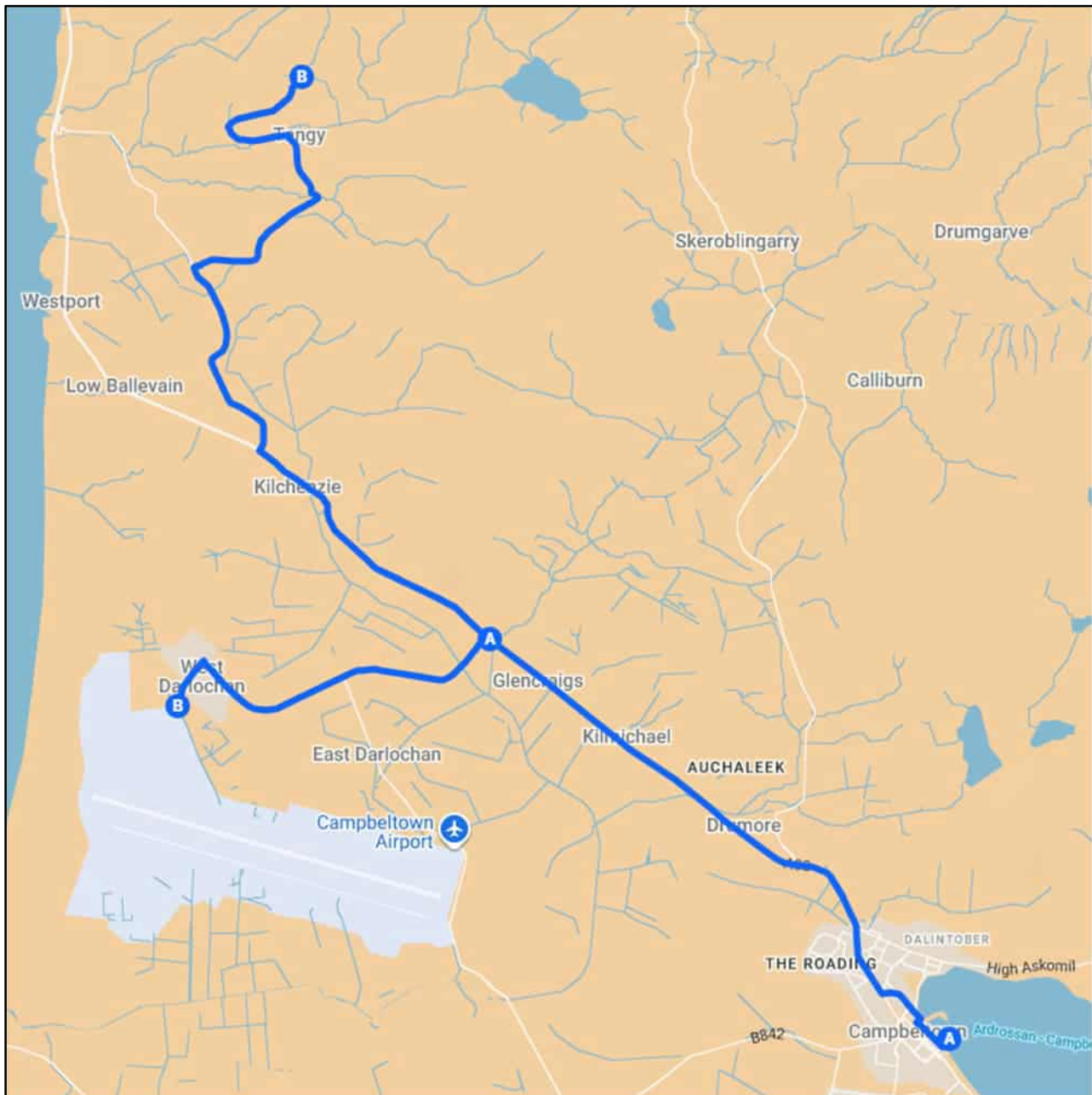
A site survey has been undertaken from the Port of Entry (PoE) access gates to the proposed access junction location. This survey was carried out in early 2026 using video capture along the entire length of the delivery route. Any areas considered to require a detailed assessment were marked with a Global Positioning Survey (GPS) waypoint and comments recorded detailing the nature of the concern. This report uses this survey data, updated where required to reflect new infrastructure.

The proposed access route to site is as follows:

- Loads will depart the pier at Campbeltown and will turn right onto Hall Street;
- Loads will continue ahead at the Hall Street / Main Street roundabout;
- Loads will join the A83 via Aquilibrum Avenue;
- Loads will proceed northbound on the A83, departing Campbeltown;
- To access the temporary storage area at Machrihanish, in the event that this is required, loads will turn left onto the Machrihanish Road. Loads will travel westbound to the former CS Wind access junction, where they will enter the facility. Access back to the A83 will be via the same route;
- Loads will proceed northbound on the A83 to Drum Farm. Loads will then turn right onto the unclassified road network; and
- Loads will continue northbound on the unclassified road network, proceeding onto the Tangy access road network. Loads will then enter the site and proceed to turbine locations using the access track network.

The proposed route is illustrated in Figure 3-1.

Figure 3-1: Proposed Access Route



3.3 Route Constraints

The constraints noted on the site visit are detailed in Table 3-1.

No consideration of the transport issues within the port, offline tracks or within the development site have been undertaken and this includes the design of the site access junction.

Plans illustrating the location of the Points of Interest (POI) are provided in Appendix A.

Table 3-1: Constraint Summary

POI	Key Constraint	Details
1	Campbeltown Pier 	Loads will depart the pier onto Hall Street. A swept path assessment has been undertaken and indicates that a section of fencing and a large lighting column should be removed from the pier. A section of handrail, one sign and a lighting column should be removed from the edge of the slipway. The existing load bearing surface on the central reserve will be reused. Parking in the area and on Hall Street should be restricted. Loads will contraflow Hall Street and careful traffic management will be required. See drawing 10111065-PF-SPA-01 / 01A in Appendix B.
2	Hall Street / Main Street Roundabout 	Loads will proceed ahead, undertaking a contraflow transit of the roundabout onto Kinloch Street. A swept path assessment has been undertaken and indicates that no additional physical works are required. Parking on Hall Street should be suspended during deliveries. See drawing 10111065-PF-SPA-02 / 02A in Appendix B.
3	Kinloch Road / Aqualibrium Avenue Junction 	Loads will turn left into Aqualibrium Avenue. A swept path assessment has been undertaken and indicates that tree canopy trimming outside the Aqualibrium will be required to accommodate blade tip oversail. Loads will oversail the inside of the junction where one lighting column should be removed. Loads will oversail and over-run the outside of the junction. See drawing 10111065-PF-SPA-03 / 03B in Appendix B.
4	Milknowe Road / Aqualibrium Avenue Junction 	Loads will turn right onto the A83. A swept path assessment has been undertaken and indicates that loads will oversail all four corners of the junction, where one lighting column and one road sign should be removed. A minor area of load bearing surfacing will be required on the western verge of the A83. See drawing 10111065-PF-SPA-03A / 03B in Appendix B.

POI	Key Constraint	Details
5	A83 Millnowe Road / Mill Street Junction 	Loads will continue ahead on the A83. A swept path assessment has been undertaken and indicates that no physical works are required. The lead escorts should however hold oncoming traffic back at the straights at the north of Campbeltown. See drawing 10111065-PF-SPA-04 / 04A in Appendix B
6	A83 / Dalaruan Street Junction 	Loads will continue ahead on the A83. A swept path assessment has been undertaken and indicates that loads will oversail both verges of the A83. To the east, two lighting columns and two road signs should be removed. In the western verge, the fence to the council park should be lowered. A review of landownership at this location is advised. The lead escorts should however hold oncoming traffic back at the straights at the north of Campbeltown. See drawing 10111065-PF-SPA-05 / 05A in Appendix B
7	A83 Tarbert Road Bend 	Loads will continue ahead on the A83. A swept path assessment has been undertaken and indicates that whilst loads will oversail the verges, no physical works are required. The lead escorts should however hold oncoming traffic back at the straights at the north of Campbeltown. See drawing 10111065-PF-SPA-06 / 06A in Appendix B
8	A83 Tarbert Road Bend 2 	Loads will continue ahead on the A83. A swept path assessment has been undertaken and indicates that whilst loads will oversail the verges, no physical works are required. The lead escorts should however hold oncoming traffic back at the straights at the north of Campbeltown. The loads should be set on their higher suspension settings to improve ground clearances at constraints noted between here and POI 9. A review of ground clearances should be undertaken at the test run and to confirm if any horizontal curvature adjustments should be made. See drawing 10111065-PF-SPA-07 / 07A in Appendix B

POI	Key Constraint	Details
9	A83 / Machrihanish Road Junction 	If offsite storage is required, loads will turn left to access the temporary storage area at the former CS Wind factory site. A swept path assessment has been undertaken for both accessing and egressing from the temporary storage area. Third party land will be required to the northeast verge of the A83, where a load bearing surface will be required. On either side of the Machrihanish Road, third party land will be required to enable oversail, requiring the removal of street furniture and fencing. See drawing 10111065-PF-SPA-08 / 08A / 08B in Appendix B
10	Machrihanish Road Bend 1 	Loads will use the Machrihanish Road to access the former CS Wind factory site. A swept path assessment has been undertaken for both accessing and egressing from the temporary storage area. Loads will oversail each verge, although no physical mitigation works are required. See drawing 10111065-PF-SPA-09 / 09A / 09B in Appendix B
11	Machrihanish Road Bend 2 	Loads will use the Machrihanish Road to access the former CS Wind factory site. A swept path assessment has been undertaken for both accessing and egressing from the temporary storage area. Loads will oversail each verge, although no physical mitigation works are required. See drawing 10111065-PF-SPA-10 / 10A / 10B in Appendix B
12	Machrihanish Road Bend 3 	Loads will use the Machrihanish Road to access the former CS Wind factory site. A swept path assessment has been undertaken for both accessing and egressing from the temporary storage area. Loads will oversail each verge, although no physical mitigation works are required. See drawing 10111065-PF-SPA-11 / 11A / 11B in Appendix B

POI	Key Constraint	Details
13	Former CS Wind Factory Access Junction 	Loads will use the Machrihanish Road to access the former CS Wind factory site. A swept path assessment has been undertaken for both accessing and egressing from the temporary storage area. Loads will oversail both verges on the approach to the access junction. A load bearing surface and the removal of one lighting column and a section of fence will be required. A review of landownership at this location is advised. See drawing 10111065-PF-SPA-12 / 12A / 12B in Appendix B
14	A83 Wellbank Bends 	Loads will proceed northbound through the bends. A swept path assessment has been undertaken and indicates that loads will oversail the fence on the western verge where third party land rights are required. A minor load bearing surface is required and the fence relocated. Loads will over-run the western verge, where a load bearing surface is required. One road sign and nine bollards should be removed. See drawing 10111065-PF-SPA-13 / 13A in Appendix B
15	A83 Drum Farm Junction 	Loads will turn right at the Drum Farm junction. A swept path assessment has been undertaken and indicates that a significant load bearing surface is required in third party land on the inside of the junction. One utility pole, one road sign and one bollard should be removed. The gates and fences should be relocated. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-14 / 14A in Appendix B
16	Drum Farm 	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a significant load bearing surface is required in third party land in the eastern verge. The fencing and gates should be relocated. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. The road surface is in a poor state of repair and will need resurfacing between POI 16 and 25 to ensure it is in a safe condition for all road users. See drawing 10111065-PF-SPA-14 / 14A in Appendix B

POI	Key Constraint	Details
17	Bend north of Drum Farm 	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land in the eastern and northern verges. The fencing and gates should be relocated and two road signs removed. The passing place signs should be removed. Services to be protected. In the western and southern verges, the fencing and gates should be relocated. Third party land rights are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-15 / 15A in Appendix B
18	Bend south of Old Schoolhouse 	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land in the northern and eastern verges. The fencing and gates should be relocated. The passing place signs should be removed. In the western and southern verges, the fencing and gates should be relocated. Third party land rights are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. The vertical profile of the road to the north of the bend is pronounced and should be reviewed on a detailed topographical survey or during the test run. See drawing 10111065-PF-SPA-16 / 16A in Appendix B
19	Bend north of Old Schoolhouse 	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land in the inside of the junction. The fencing and gates should be relocated. The passing place signs should be removed. In the outside of the bend, the fencing, wall and gates should be relocated. Third party land rights are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-17 / 17A in Appendix B

POI	Key Constraint	Details
20 & 21	Bends south of High Ballevain	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land in the southern and eastern verges. The fencing and gates should be relocated. The passing place signs should be removed. In the western and northern verges, the fencing and gates should be relocated. Third party land rights are required. Minor areas of load bearing surfacing are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-18 / 18A in Appendix B
		
22	High Ballevain	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land on both verges in advance and beyond the farm. In the western verge, the fencing and gates should be relocated. Third party land rights are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-19 / 19A in Appendix B
23	Bend north of High Ballevain	Loads will continue ahead on the public road. A swept path assessment has been undertaken and indicates that a load bearing surface is required in third party land in the eastern verge, where the drainage ditch should be placed in a culvert / pipe. In the western verge, the fencing and gates should be relocated. Third party land rights are required. The public road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-20 / 20A in Appendix B
		

POI	Key Constraint	Details
24 - 26	Bends south and east of High Bellevain Cottage 	Loads will turn to the right. A swept path assessment has been undertaken and indicates that the western verge will be oversailed into third party land. Fencing and gates to be relocated. At the right turn, a large over-run area is required. In the eastern verge a load bearing surface is required in third party land in the eastern verge, where the drainage ditch should be placed in a culvert / pipe. An over-run surface is required on the inside of the right turn. One utility pole should be relocated and third party land rights are required. Following the right turn, one utility pole in the northern verge should be removed. The roads are below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. The road surfacing needs to be improved from the loose condition noted on the site visit. A metalled surface may be required for the initial section leading from the public road to ensure safe traction for deliveries. See drawing 10111065-PF-SPA-21 / 21A / 21B in Appendix B
27 & 28	Breakachy Bends 	Loads will proceed ahead to the Tangy Wind Farm access. Loads will use the bypass track to Breakachy Farm. The vertical profile should be compared against the selected turbine supplier track guidance to ensure that loads cannot ground out on the access track. A swept path assessment has been undertaken and indicates that the existing road will require widening and third party land rights are required in both verges to accommodate road widening and oversail. Existing fencing and gates will need to be relocated. See drawing 10111065-PF-SPA-22 / 22A in Appendix B

POI	Key Constraint	Details
29	Bends north of Breakachy 	Loads will proceed ahead to the Tangy Wind Farm access. Loads will use the bypass track to Breakachy Farm. A swept path assessment has been undertaken and indicates that the existing road will require widening to the southern verge. Third party land rights are required to accommodate road widening and oversail. Existing fencing and gates will need to be relocated. The fence to the northern verge will need to be relocated to enable oversail. Third party land rights are required. The road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-23 / 23A in Appendix B
30 & 31	Hazel's Cottage Bends  	Loads will proceed ahead to the Tangy Wind Farm access. The existing access track is not suitable for the proposed loads and a new watercourse crossing will be required. A swept path assessment has been undertaken and indicates that road widening on either side of the new watercourse crossing is necessary, with third party land rights being required. The road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-24 / 24A in Appendix B
32	Bend north of Hazel's Cottage 	Loads will proceed ahead to the Tangy Wind Farm access. A swept path assessment has been undertaken and indicates that road widening on either side of the road is necessary, with third party land rights being required. The fence on either side of the track will need to be relocated. The road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. See drawing 10111065-PF-SPA-25 / 25A in Appendix B

POI	Key Constraint	Details
33 - 35	Tangylee Bends 	Loads will proceed ahead round a left hand bend to the Tangy Wind Farm access. A swept path assessment has been undertaken and indicates that road widening on either side of the road is necessary, with third party land rights being required. The fence and walls on either side of the track will need to be relocated. Trees to the northeast of Tangylee will need to be trimmed / removed to enable oversail and road widening works. The road is below the minimum standards for turbine deliveries of this scale and will need to be widened to a minimum of 4.5m. The clearances to the overhead power lines to the south of POI 34 should be confirmed as being suitable for a load 5m in height, with sufficient provision for flashover protection. See drawing 10111065-PF-SPA-26 / 26A in Appendix B

POI	Key Constraint	Details
36 - 39	Tangyburn Bends 	Loads will proceed ahead to the Tangy Wind Farm access. A swept path assessment has been undertaken and indicates that road widening on the inside of the bends is necessary, with third party land rights being required. The fence and walls on either side of the track will need to be relocated to accommodate load oversail. The road is below the minimum standards for turbine deliveries of this scale and will need to be widened. The track surfacing needs improvement as it is very loose in places and not suitable for AIL movements in its current form. The vertical profile should be compared against the selected turbine supplier track guidance to ensure that loads cannot ground out on the access track. See drawing 10111065-PF-SPA-27 / 27A / 27B in Appendix B

POI	Key Constraint	Details
40 - 41	Bends south of Tangy Wind Farm 	Loads will proceed ahead to the Tangy Wind Farm access. A swept path assessment has been undertaken and indicates that road widening in the southern and eastern verge is necessary, with third party land rights being required. The fence and walls on either side of the track will need to be relocated to accommodate load oversail. Posts located in the northern and western verges will need to be removed to allow oversail to occur. Potential requirement to reinforce existing cattlegrid. See drawing 10111065-PF-SPA-28 / 28A / 28B in Appendix B
42	Tangy Wind Farm Access 	Loads will enter the wind farm. The cattlegrid weights should be reviewed to identify if strengthening works are required.

3.4 Swept Path Assessment Results and Summary

The detailed swept path assessment (SPA) drawings for the locations assessed are provided in Appendix B for review. The drawings illustrate tracking undertaken for the worst case loads at each location. The colours illustrated on the swept paths represent:

- **Grey** – Ordnance Survey (OS) / topographical base mapping;
- **Cyan** – Indicative road edge;
- **Green** – vehicle body outline (body swept path);
- **Red** – tracked pathway of the wheels (wheel swept path); and
- **Magenta** – the oversail tracked path of the load where it encroaches out with the trailer (load swept path).

Where mitigation works are required, the extents of the overrun and oversail areas are illustrated and fully detailed on the SPA drawings. Additional land areas to those indicated in the SPA drawings may be required to facilitate the construction of the proposed physical mitigation measures depending on the site conditions and topography. The extent of any additional areas required to construct the mitigation works highlighted within this study and the detailed design of said mitigation works is beyond the scope of this study and should be confirmed on detailed topographical survey data.

Please note that where SPA have been undertaken using OS base mapping, satellite imagery and historic topographical data, there can be errors in these data sources. Where applicable, mapping has been augmented with aerial imagery for illustration only. The accuracy of this mapping cannot be confirmed by PF.

Please note that turbine supplier guidance suggests that the minimum road width for the safe transport of ALL components is 4.5m. All public roads and on-site access tracks should comply with this standard unless a relaxation has been agreed with suppliers.

The need to widen public roads will require engagement with the relevant road authority and may constitute permanent or temporary surfacing.

3.5 Third Party Land and Land Ownership

A review of third party land should be undertaken by the Applicant to ensure that no additional land rights are required to enable deliveries or mitigation works. PF accept no responsibility for the accuracy of land ownership assumptions, all of which should be confirmed across the entire access route by a qualified land agent.

The limits of road adoption can vary depending upon the location of the site and the history of the road agencies involved. The adopted area is generally defined as land contained within a defined boundary where the road agency holds the maintenance rights for the land. In urban areas, this usually defined as the area from the edge of the footway across the road to the opposing footway back edge.

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 / hedge lines or a maximum 2m from the road edge. This can vary between areas and location.

3.6 Weight Review

A review of the structures on the proposed access route has been undertaken via the Electronic Service Delivery for Abnormal Loads (ESDAL) database. No constraints were identified at this time, using the Highways Agency website www.esdal.com. This, however, does not confirm the suitability or otherwise of the structures and a full review of these structures will be required with the relevant agencies via the contacts in the database when the candidate turbine has been confirmed. For information, the relevant ESDAL contacts in relation to the proposed development are noted in Table 3-2 below.

Table 3-2: ESDAL Contacts

Organisation	Email Address
Argyll & Bute Council	abnormalloads@argyll-bute.gov.uk
Transport Scotland	abnormalloads@transport.gov.scot
Police Scotland	OSDAbnormalLoadsScotland@scotland.police.uk
BEAR Scotland	NWAbnormalLoad@bearsotland.co.uk

The responses from the ESDAL search are contained in Appendix C. Where no response has been received, it is assumed that no constraints are in place at this time.

3.7 Summary Issues

It is strongly suggested that following a review of the RSR, the Applicant should undertake the following prior to the delivery of the first abnormal loads, to ensure load and road user safety:

- A review of 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 to ensure that there is sufficient space to allow for loads plus sufficient flashover protection (to electrical installations);
- That any verge vegetation and tree canopies which may foul loads is trimmed prior to loads moving;

- That a review of potential roadworks and or closures is undertaken once the delivery schedule is established in draft form;
- That a test run is completed to confirm the route and review any vertical clearance issues; and
- That a condition survey is undertaken to ascertain the extents of road defects prior to loads commencing to protect the Applicant from spurious damage claims.

4 Summary

4.1 Summary of Access Review

PF have been commissioned by SSE Renewables to prepare a RSR to examine the issues associated with the transport of AIL turbine components from Campbeltown to the development site at Tangy IV Wind Farm.

This report identifies the key points and issues associated with the proposed route and outlines the issues that will need to be considered for successful delivery of components.

This report has been based on a worst case of Nordex N149 turbine components and has been undertaken on the basis of a clamp trailer for the tower loads and a Superwing carrier trailer for the blade loads.

The report is presented to the Applicant for consideration. Various road modifications and interventions are required to successfully access the site. If these are undertaken, access to the proposed wind farm site is considered feasible.

4.2 Further Actions

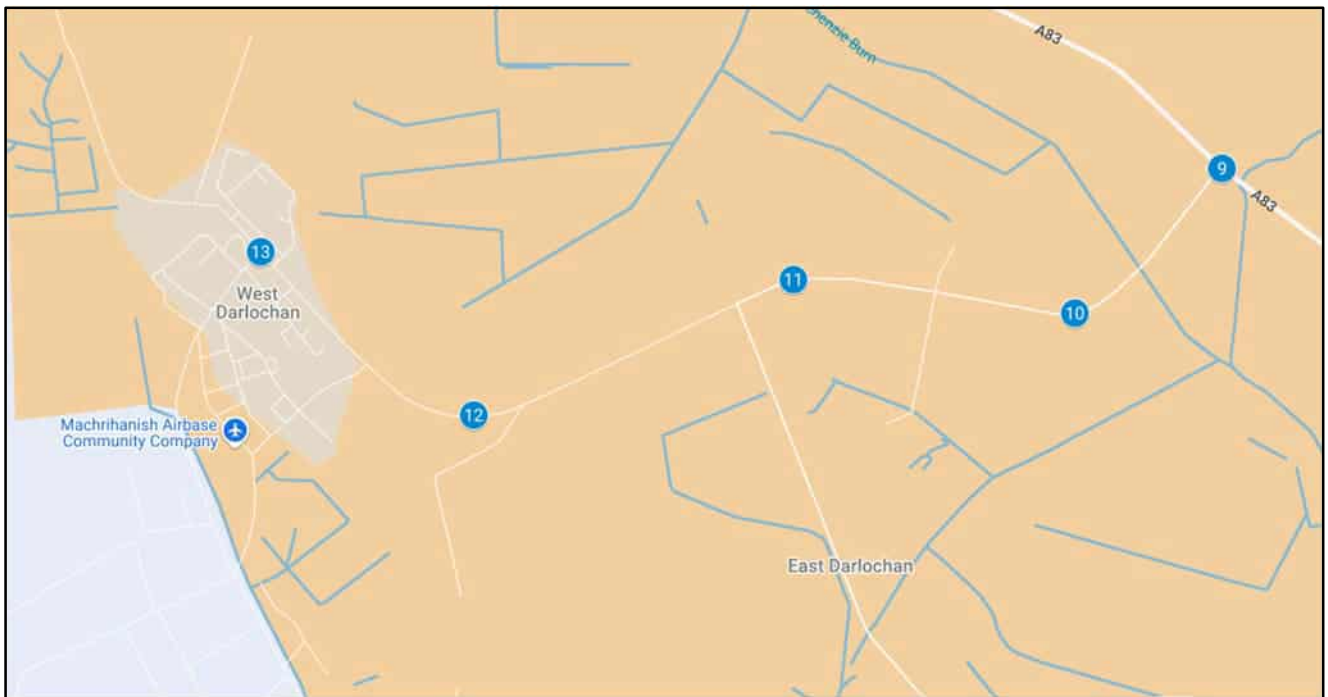
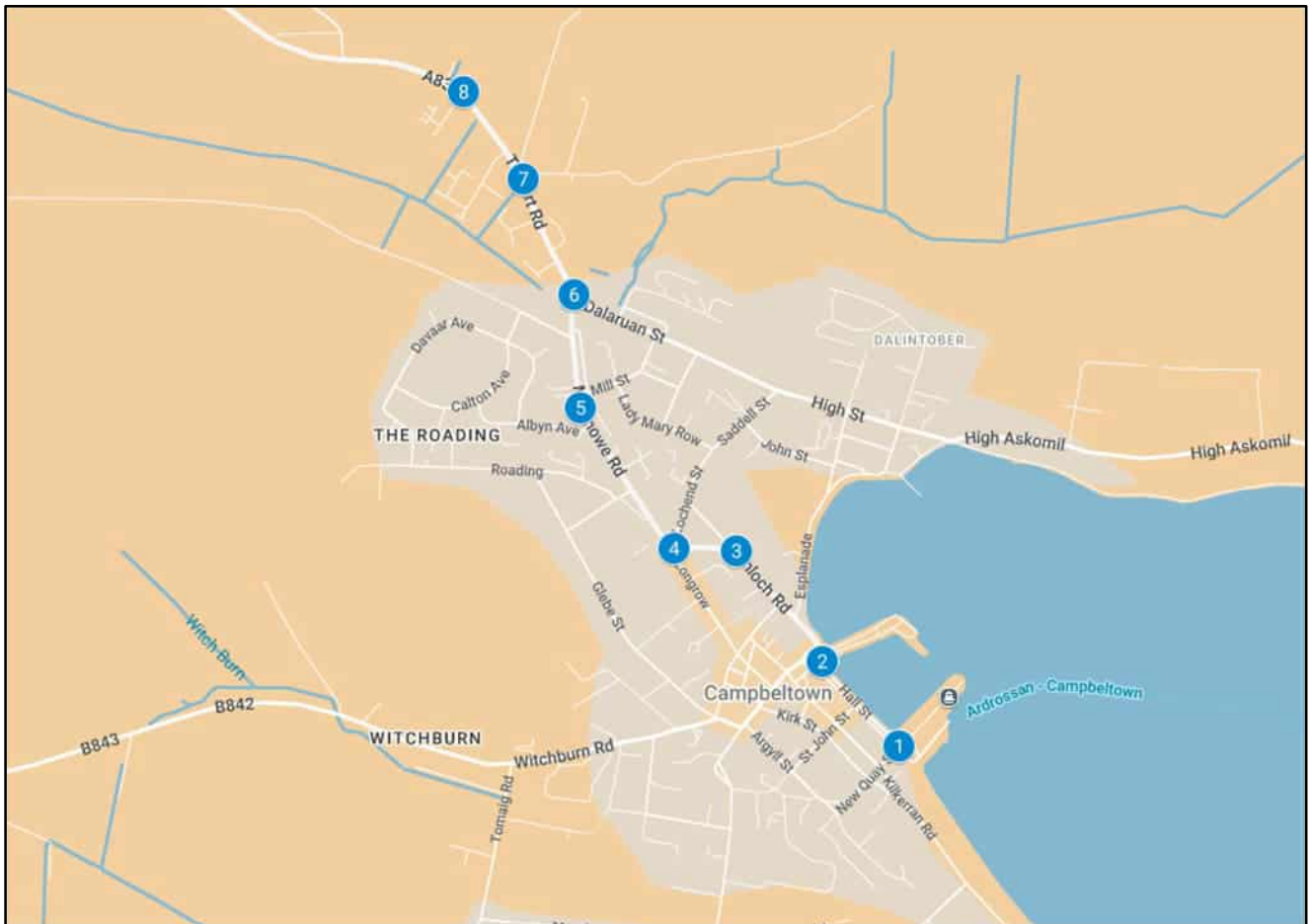
The following actions are recommended to pursue the transport and access issues further:

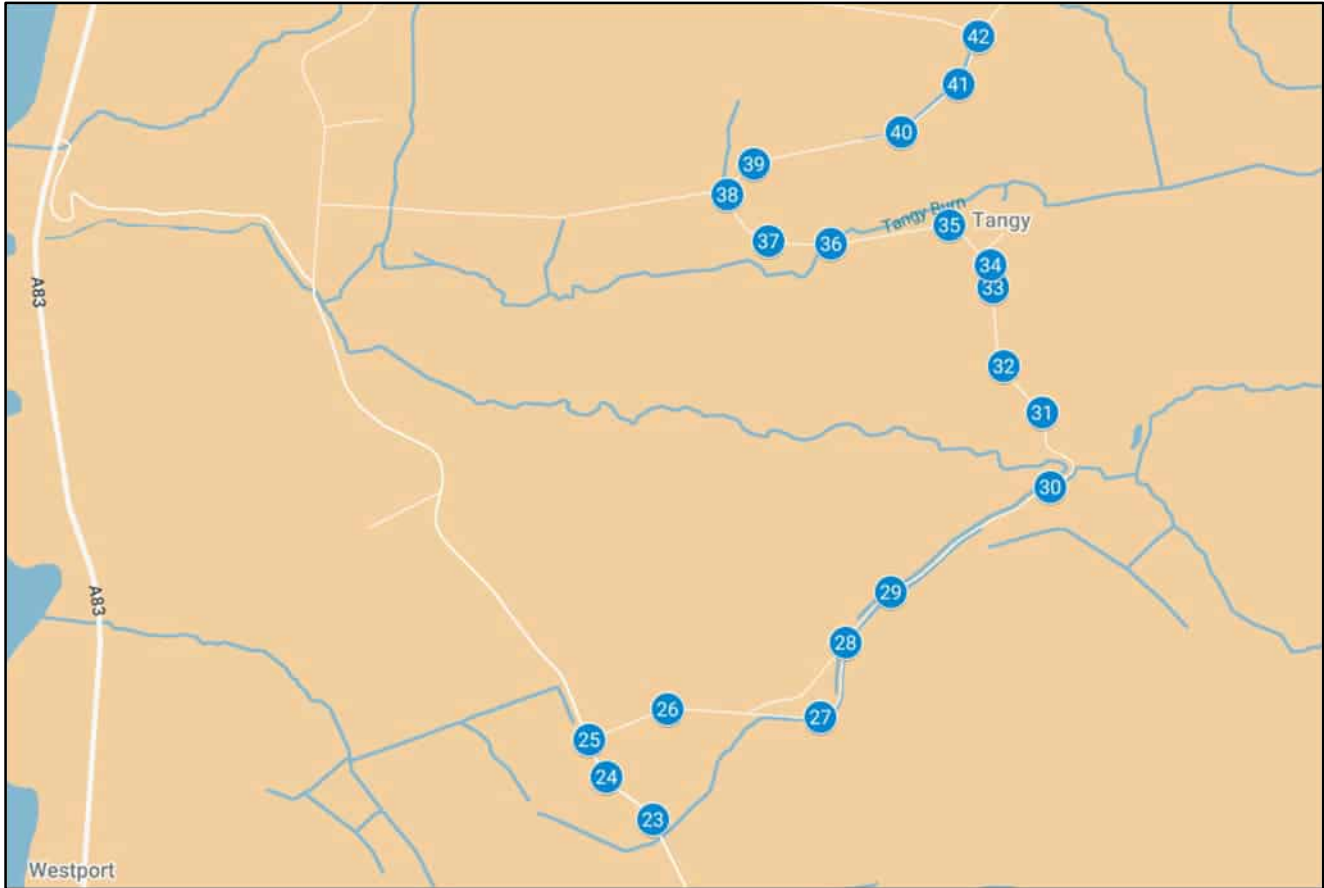
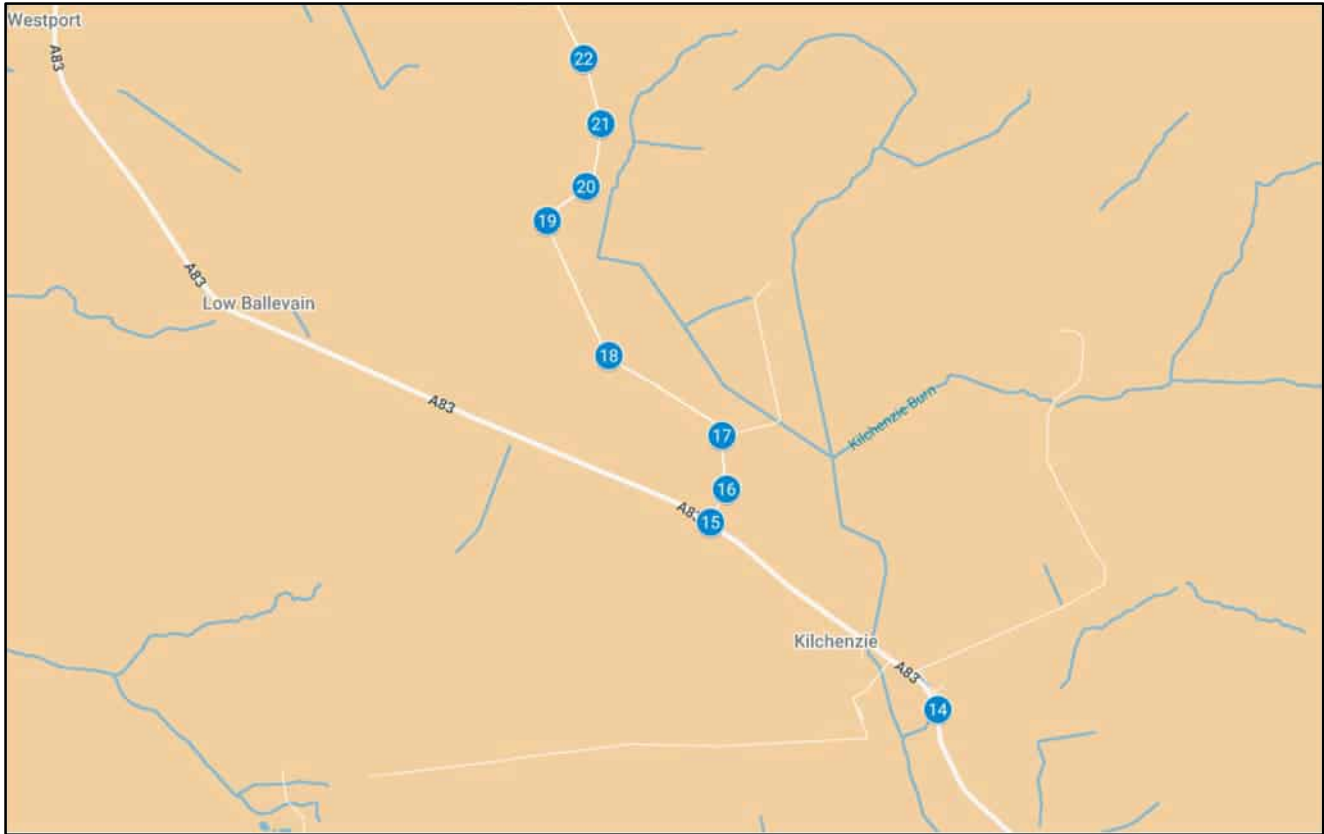
- Prepare detailed mitigation design proposals to help inform the land option / consultee discussions;
- Obtain the necessary land options;
- Undertake discussion with the affected utility providers and roads agencies;
- Obtain the necessary statutory licences to enable the mitigation measures; and
- Develop a detailed operational Transport Management Plan to assist in transporting the proposed loads.

Appendix A Points of Interest

An electronic copy of the POI plan can be found here:

https://www.google.com/maps/d/edit?mid=1xHox1GCAY_PhoHH8JNaEEjzAwH-HAuM&usp=sharing

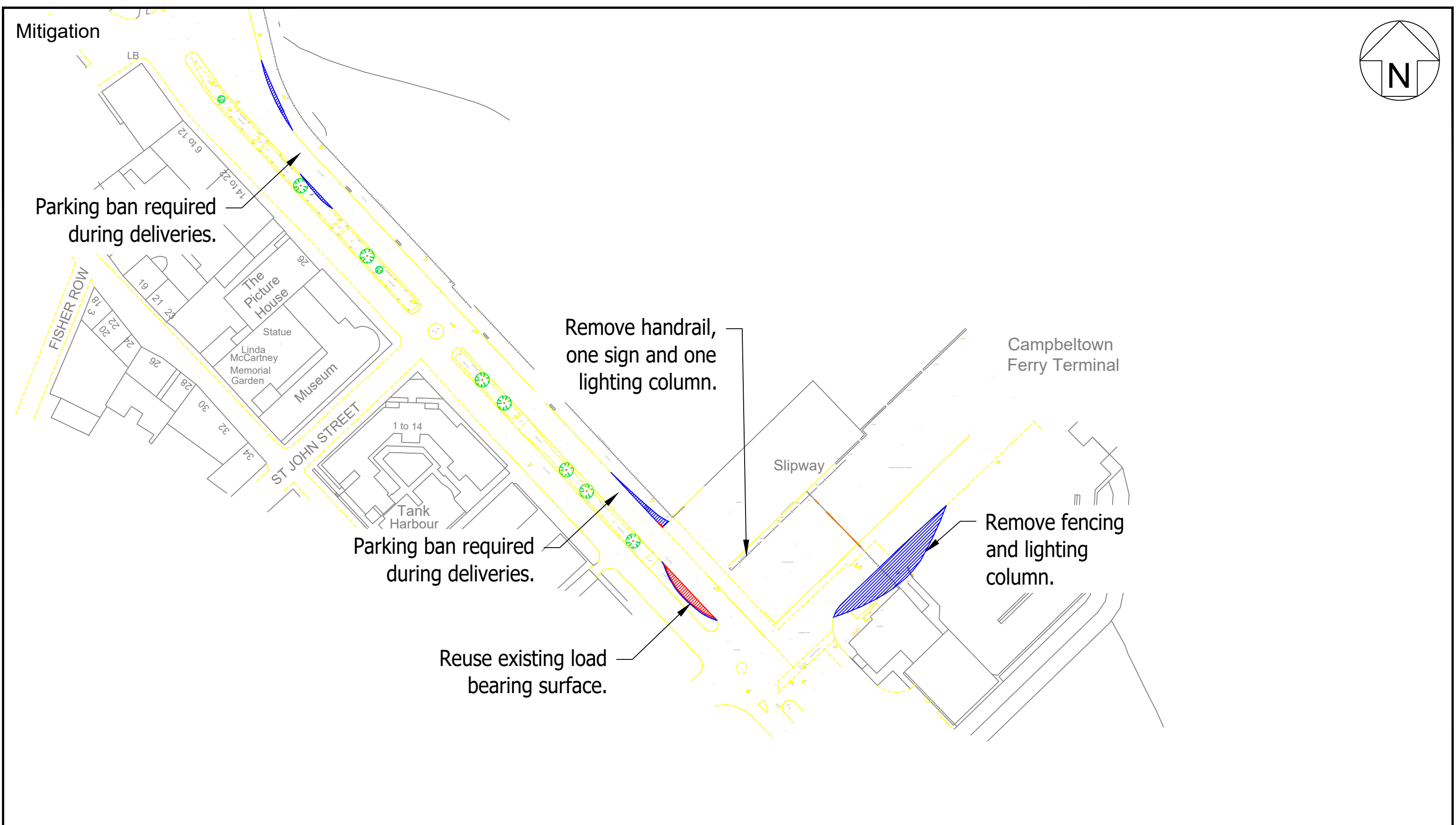




Appendix B Swept Path Assessments



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date		20/04/2026	
	POI	SPA Location		CAMPBELTOWN PIER		Status		Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		Revision		00		
	Scale		Custom@ A3													
	Notes		1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.													
	Client					SSE RENEWABLES										
Drawing No.		10111065 - PF - SPA - 01														



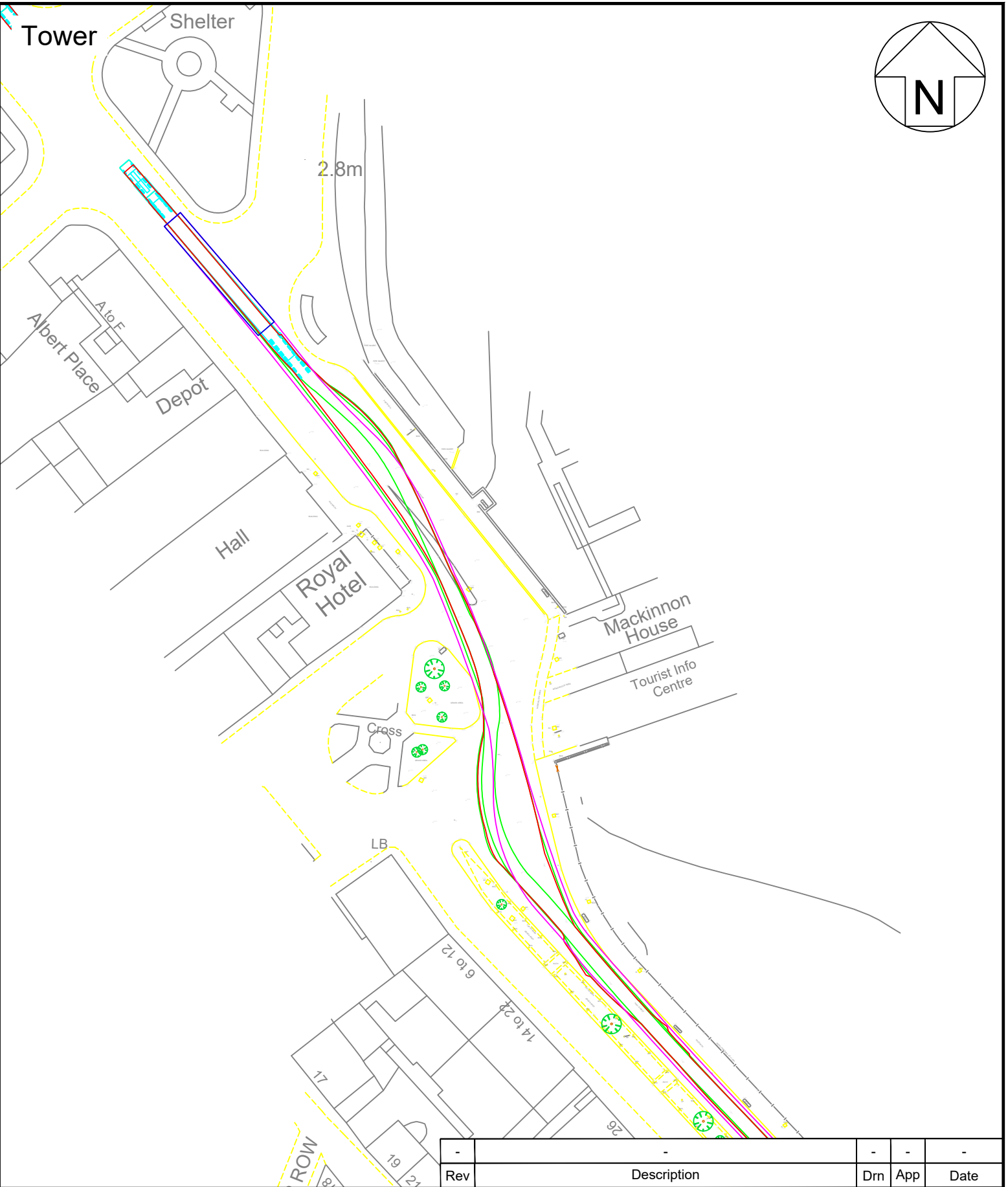
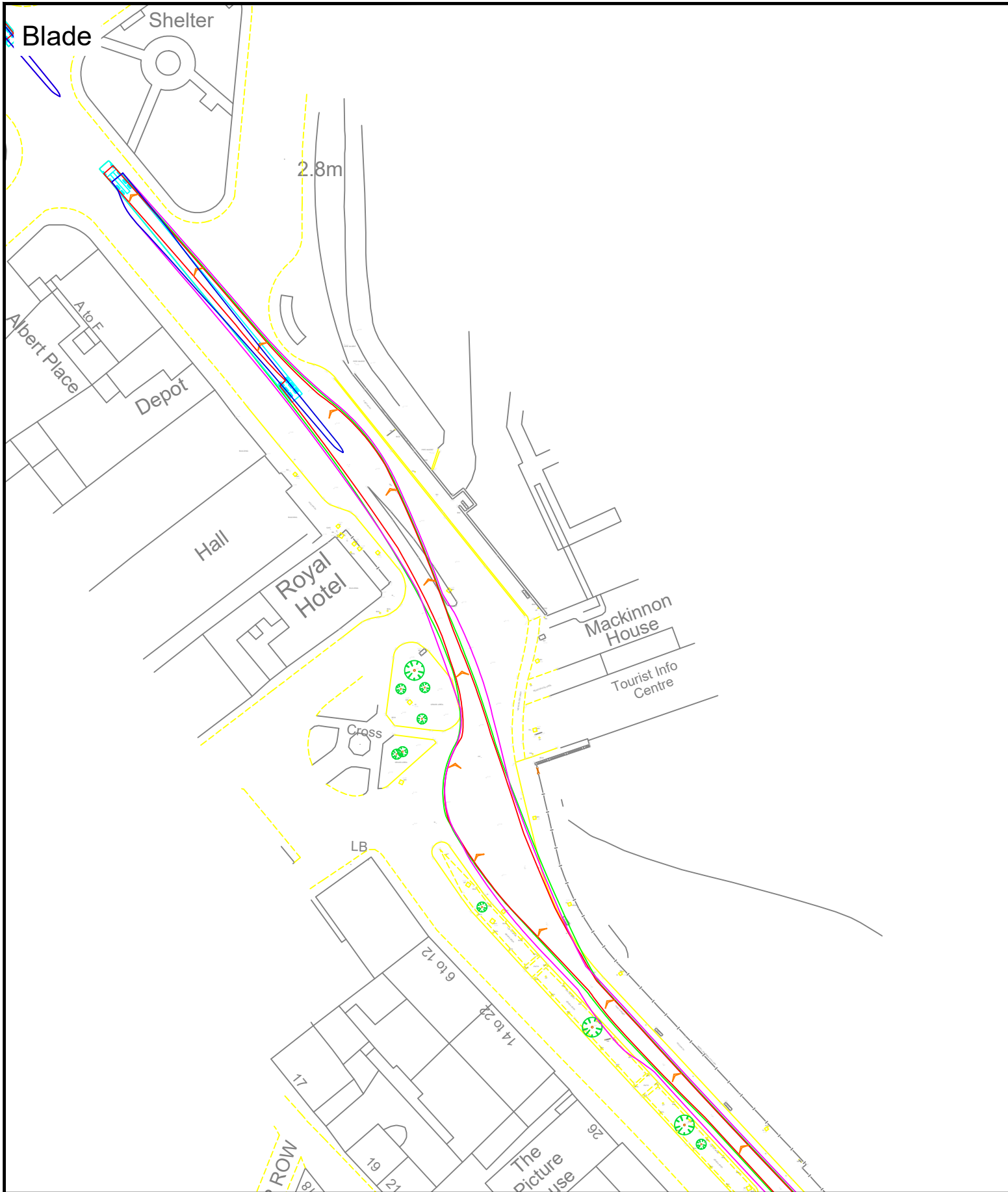
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
01	CAMPBELTOWN PIER		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn		Approved		Date			
AD		GB		20/04/2026			
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT					
Revision	00						
Scale	Custom@ A3						
Drawing No.							
10111065 - PF - SPA - 01A							



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Drawing Title		Drawn	AD	Approved	GB	Date	20/04/2026		
	POI	SPA Location			Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
	02	HALL STREET/ MAIN STREET ROUNDABOUT			Revision	00						
	Notes				Scale	Custom @ A3						
	1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.				Drawing No.		10111065 - PF - SPA - 02					
Client												



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

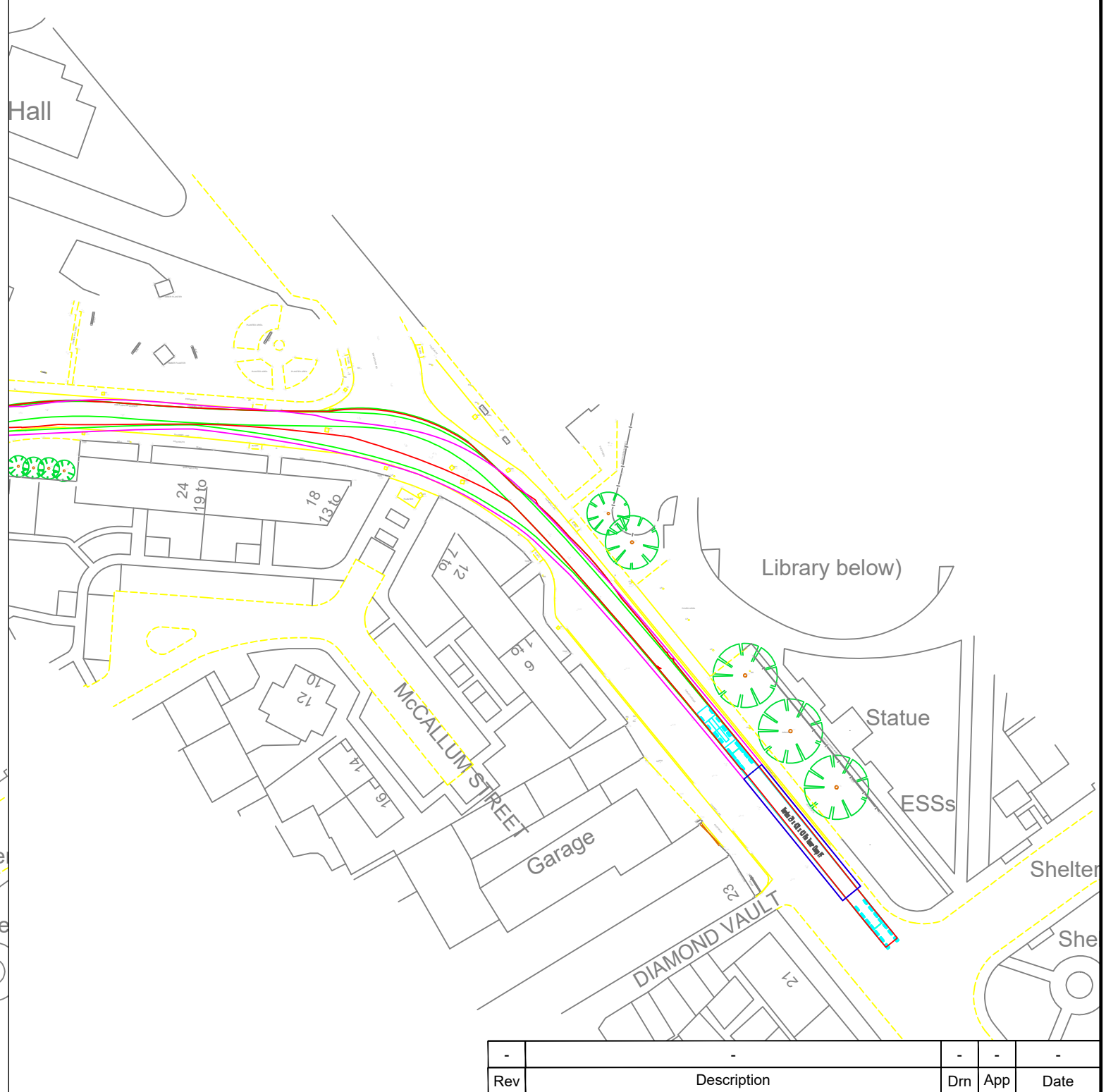
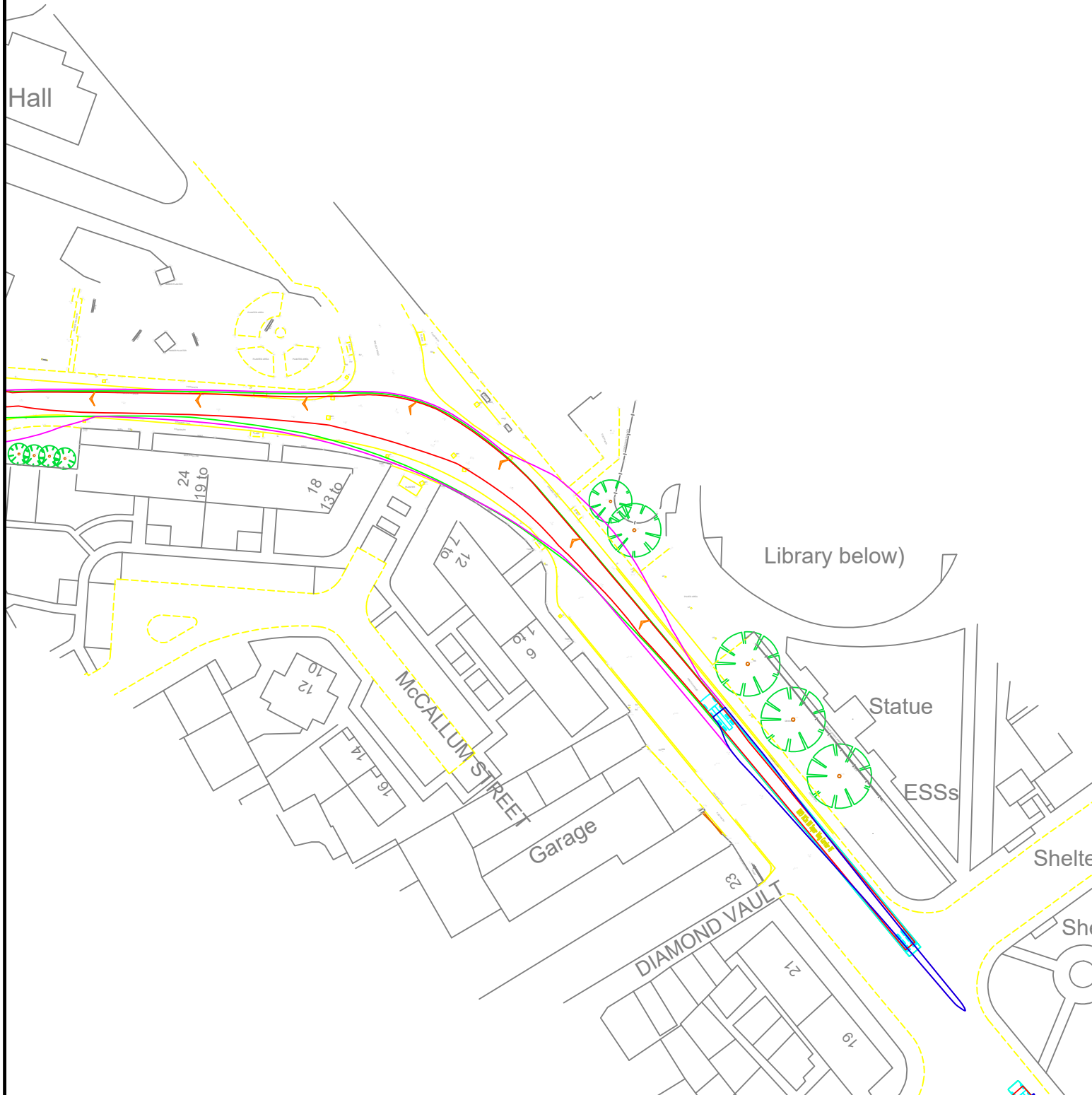
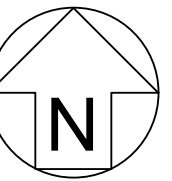
ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
02	HALL STREET / MAIN STREET ROUNDABOUT		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No.				10111065 - PF - SPA - 02A			

Blade

Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project	
---------	--

TANGY IV WIND FARM

POI

03

SPA Location

KINLOCH ROAD / AQUALIBRIUM AVENUE JUNCTION

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing Title

N149 BLADE & TOWER

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom @ A3						
Drawing No. 10111065 - PF - SPA - 03							



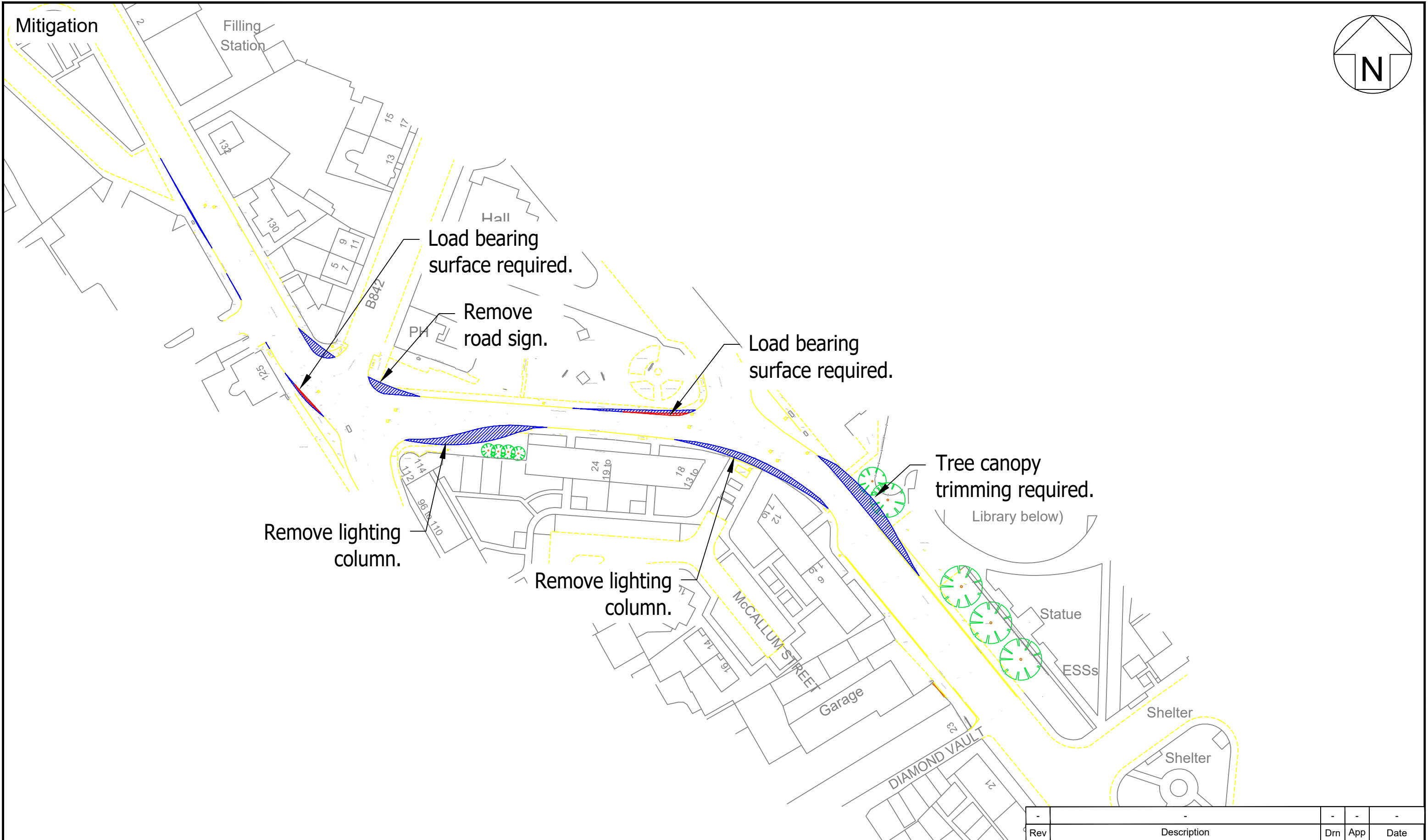
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

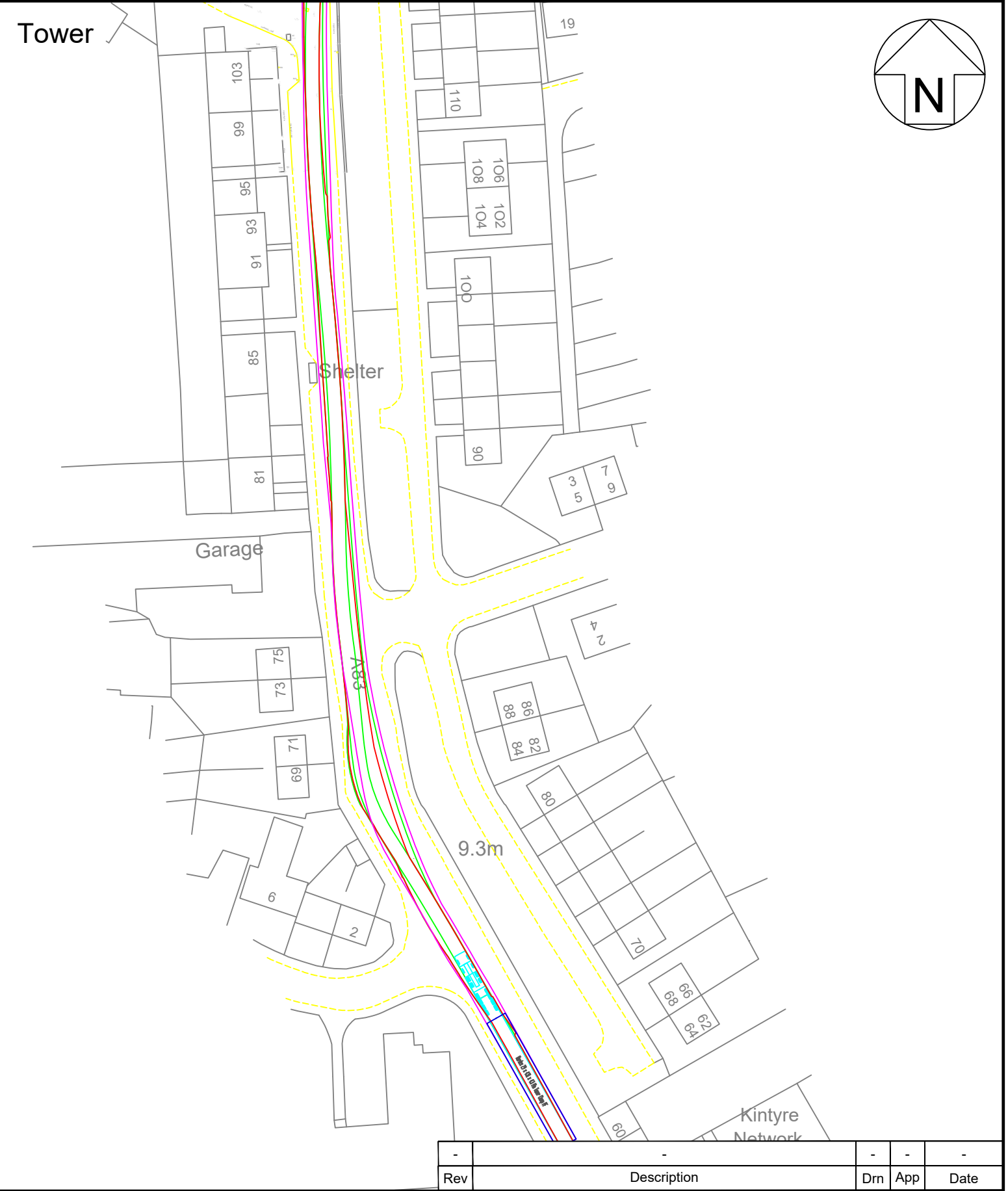
ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
04	MIILKNOWE ROAD / AQUALIBRIUM AVENUE JUNCTION		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No.				10111065 - PF - SPA - 03A			



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD		Approved GB		Date 20/04/2026	
	POI 03 / 04	SPA Location AQUALIBRIUM AVENUE JUNCTIONS			Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
					Revision	00				
					Scale	Custom@ A3				
	Notes	1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Drawing No.	10111065 - PF - SPA - 03B				
Client SSE RENEWABLES										



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

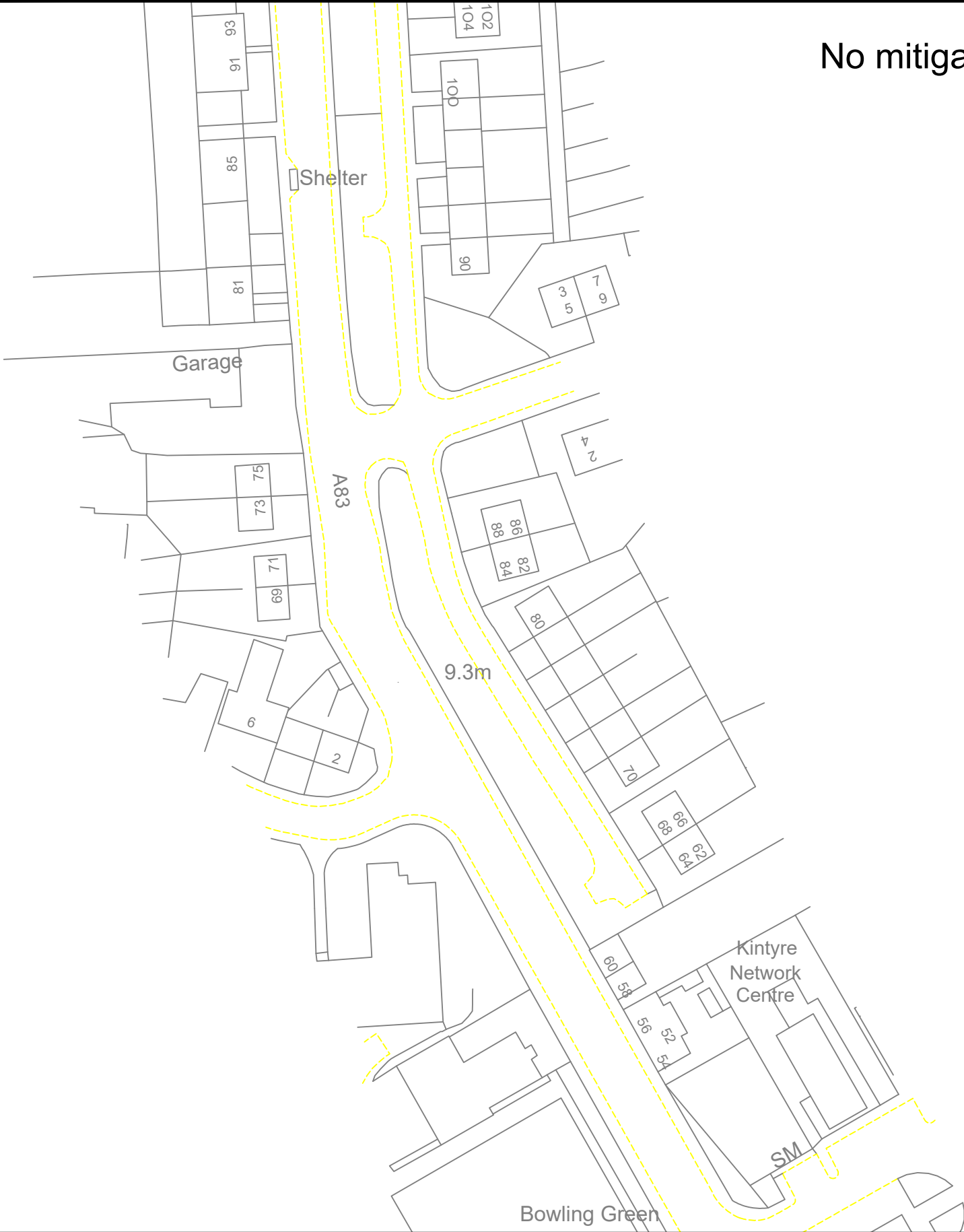
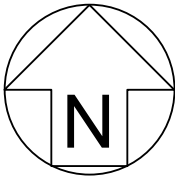
ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
05	A83 MILLKNOWE ROAD / MILL STREET JUNCTION		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative		Overrun		
Revision	00				Oversail		
Scale	Custom@ A3				DoT		
Drawing No. 10111065 - PF - SPA - 04							

Mitigation

No mitigation measures required.



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

Drawing Title

N149 BLADE & TOWER

POI

05

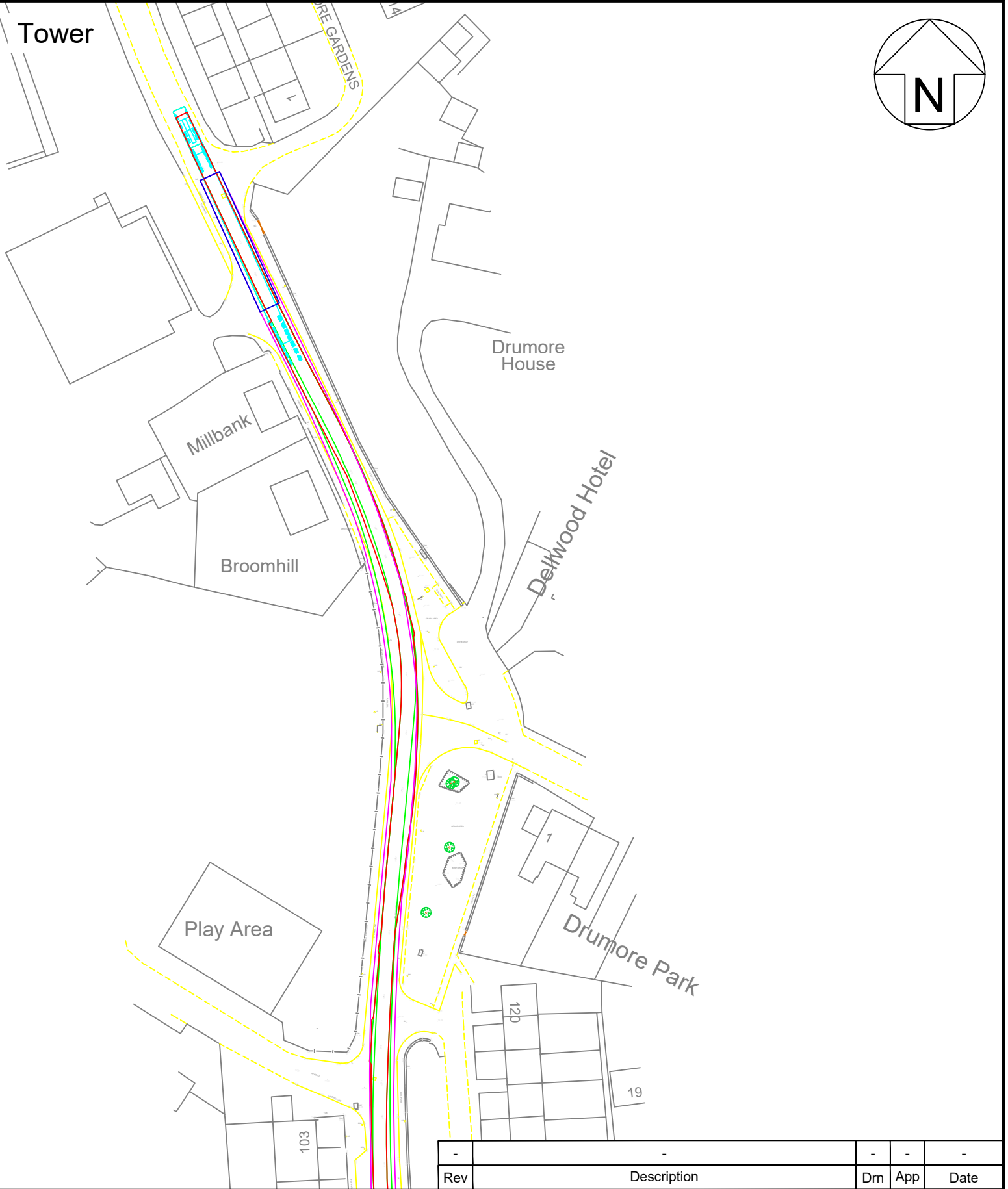
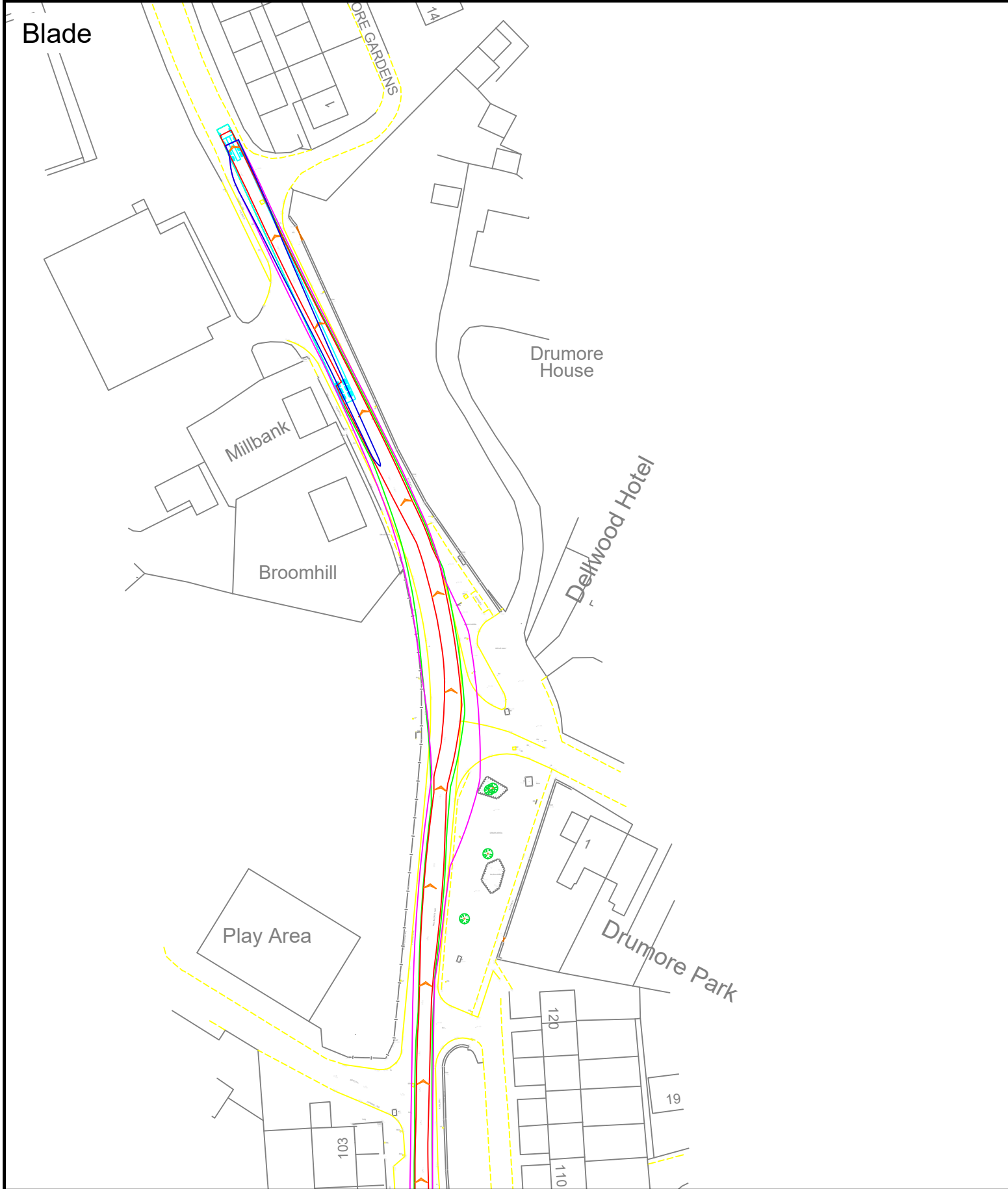
SPA Location

A83 MILLKNOWE ROAD / MILL STREET JUNCTION

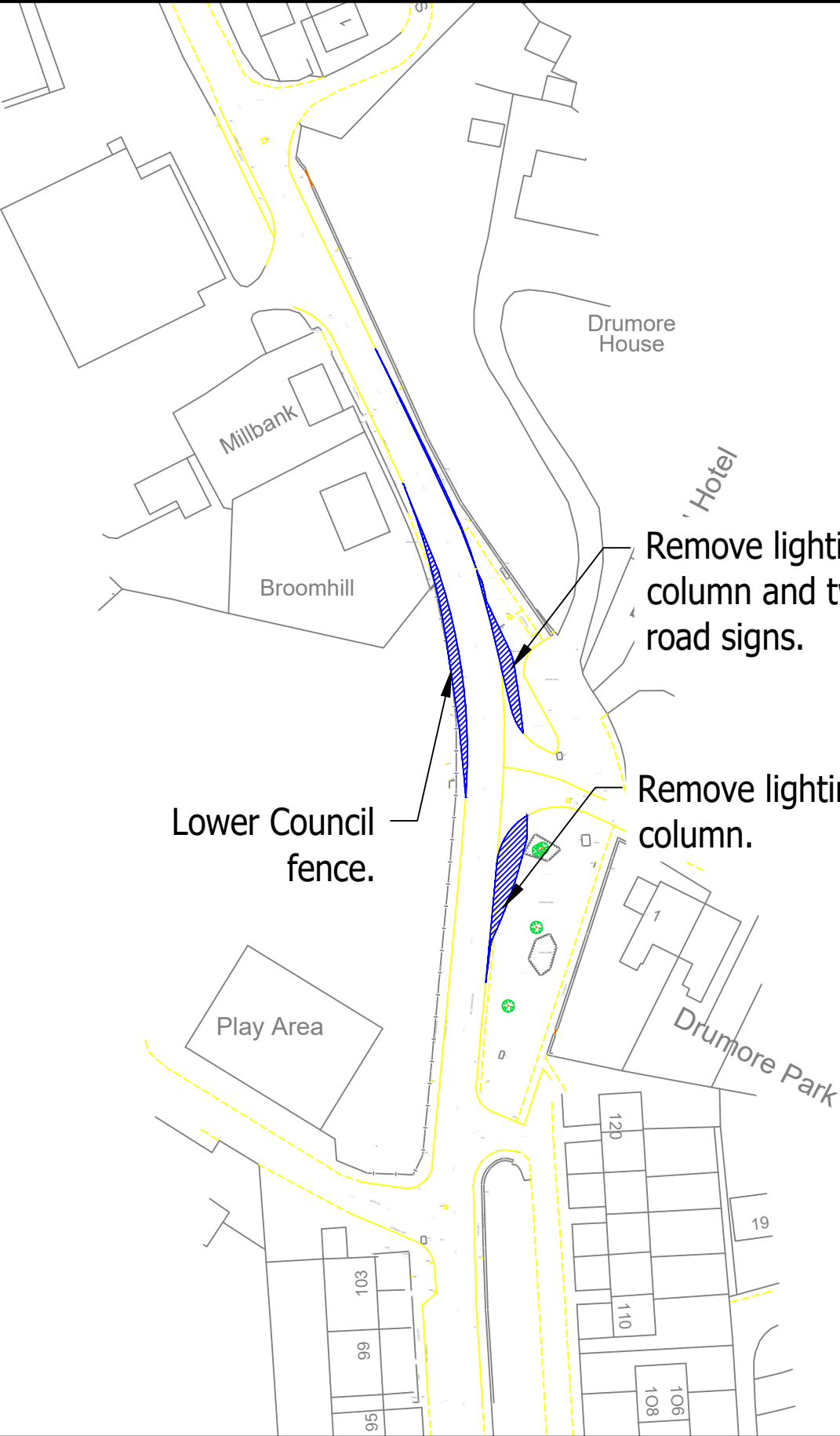
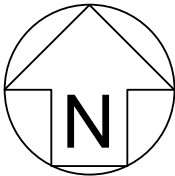
Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	Custom@ A3					
Drawing No.				10111065 - PF - SPA - 04A		



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date	20/04/2026	
	POI		06		SPA Location		A83 MILLKNOWE ROAD / DALARUAN STREET JUNCTION		Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
	Notes								Revision	00					
									Scale	Custom@ A3					
	Client		SSE RENEWABLES								Drawing No.		10111065 - PF - SPA - 05		



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client
SSE RENEWABLES

Project		TANGY IV WIND FARM	Drawing Title	N149 BLADE & TOWER
POI	06	SPA Location A83 MILLKNOWE ROAD / DALARUAN STREET JUNCTION		
Notes				
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.				

-	-			-	-	-
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00					
Scale	Custom@ A3					
Drawing No. 10111065 - PF - SPA - 05A						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

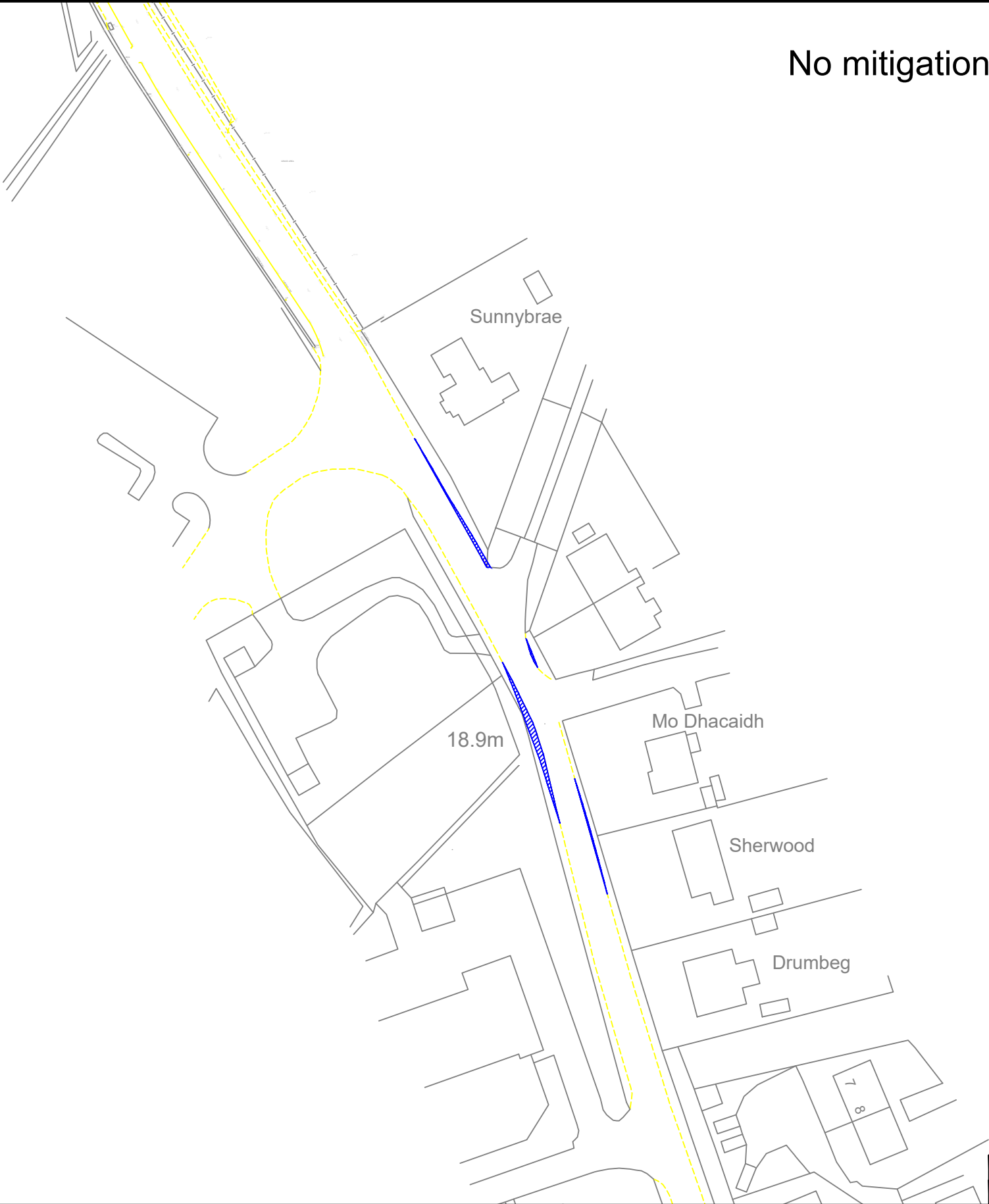
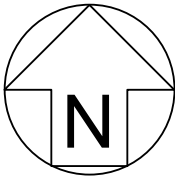
Client **SSE RENEWABLES**

Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER
POI 07	SPA Location A83 TARBERT ROAD BEND	
Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		

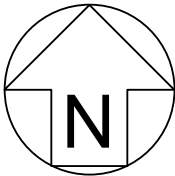
-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative		Overrun		
Revision	00				Oversail		
Scale	Custom@ A3				DoT		
Drawing No.				10111065 - PF - SPA - 06			

Mitigation

No mitigation measures required.



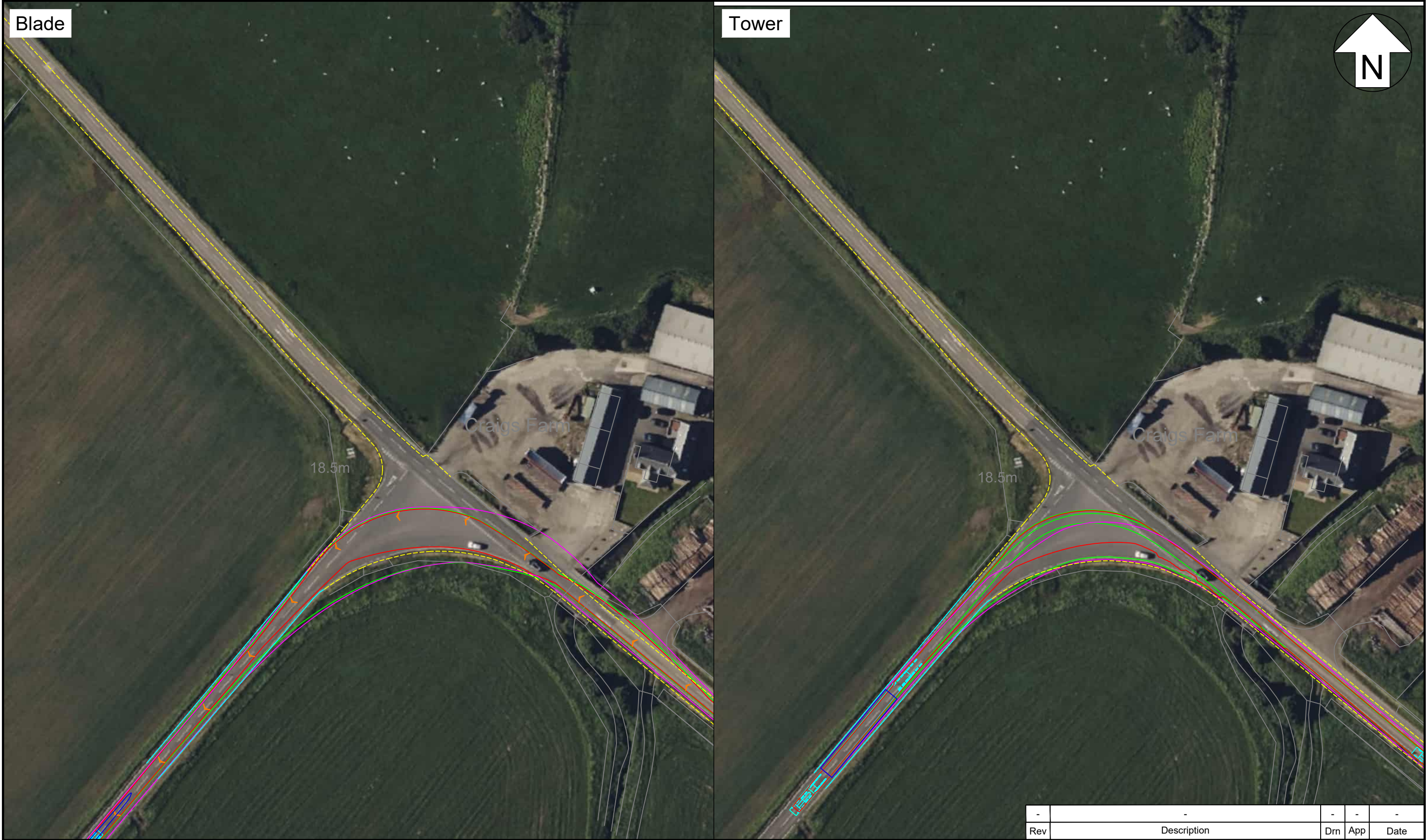
Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 07	SPA Location A83 TARBERT ROAD BEND		Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
				Revision	00			
				Scale	Custom@ A3			
	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Drawing No. 10111065 - PF - SPA - 06A					
Client SSE RENEWABLES								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 08	SPA Location A83 TARBERT ROAD BEND 2		Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
				Revision	00			
				Scale	1:1_2 @ A3			
	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Drawing No. 10111065 - PF - SPA - 07					
Client SSE RENEWABLES								



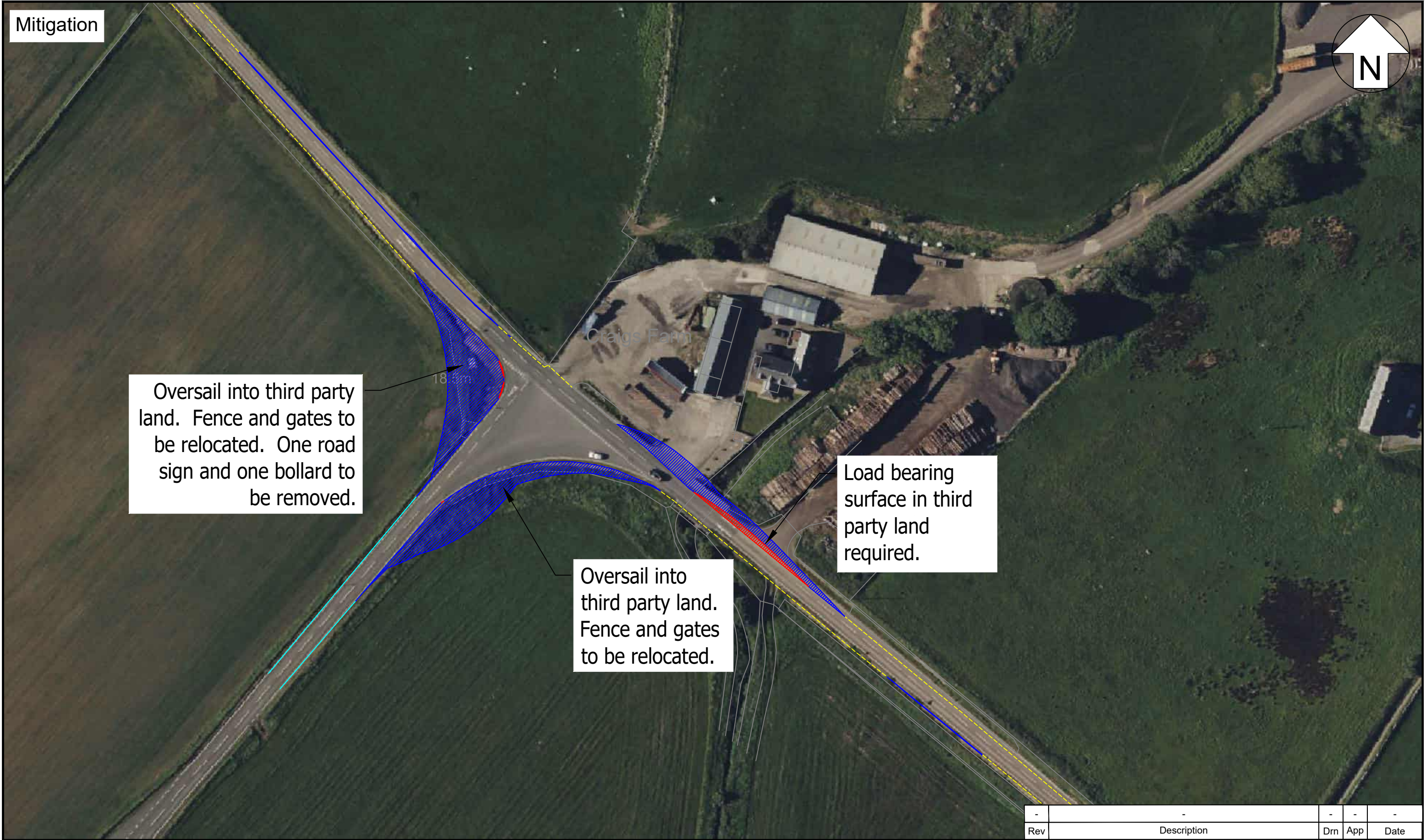
Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 08	SPA Location A83 TARBERT ROAD BEND 2			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
					Revision	00		
					Scale	Custom@ A3		
					Drawing No. 10111065 - PF - SPA - 07A			
Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.								
Client SSE RENEWABLES								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date		20/04/2026	
	POI		SPA Location				Status		Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT					
	09		A83 / MACHRIHANISH ROAD JUNCTION				Revision		00							
	Notes						Scale		1:1_2 @ A3							
Client		SSE RENEWABLES		1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Drawing No.		10111065 - PF - SPA - 08								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date	20/04/2026	
	POI		SPA Location		Notes		Status		Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
	09		A83 / MACHRIHANISH ROAD JUNCTION				Revision		00						
							Scale		1:1_2 @ A3						
	Client		SSE RENEWABLES				Drawing No.		10111065 - PF - SPA - 08A						



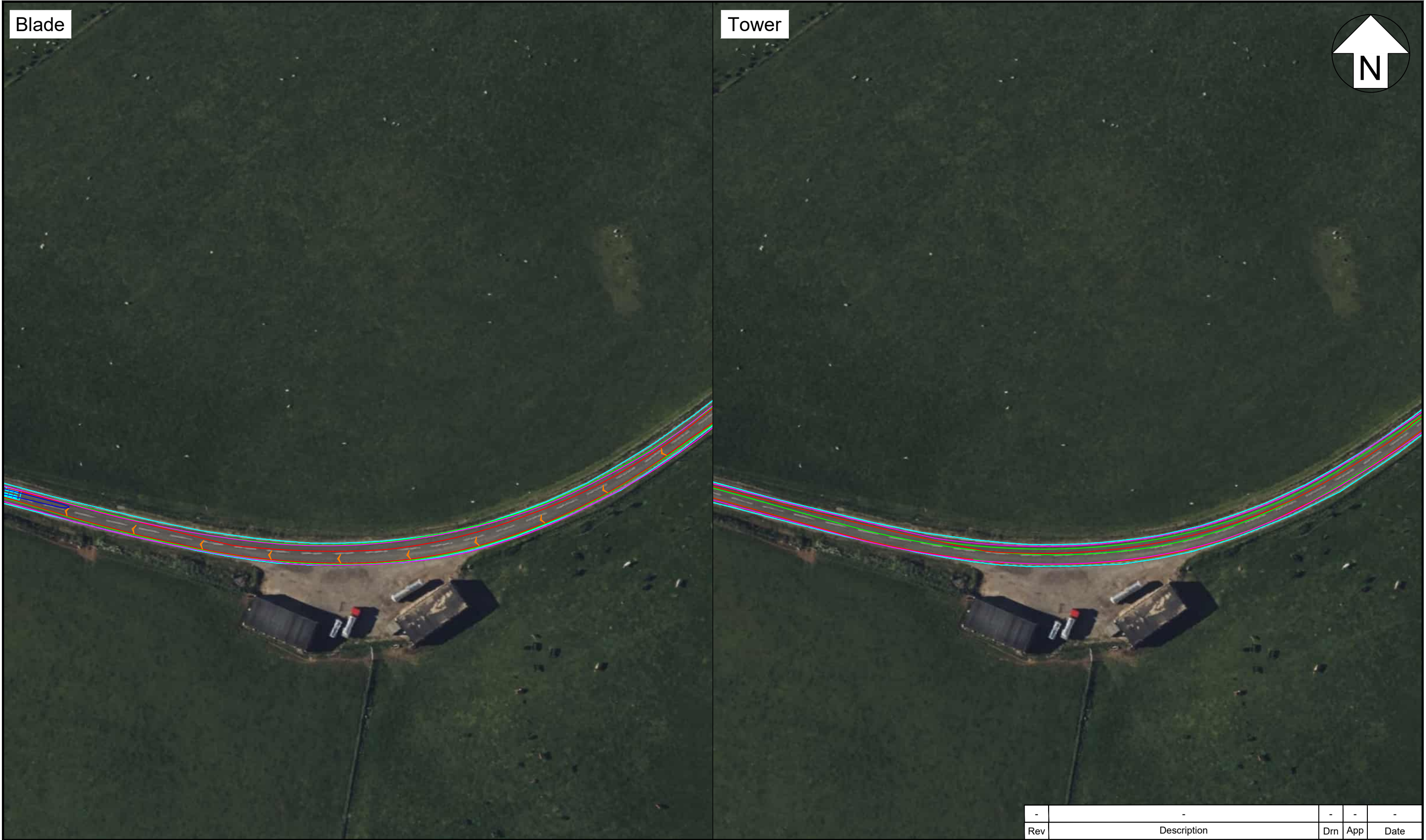
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
09	A83 / MACHRIHANISH ROAD JUNCTION		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	1:1_2 @ A3					
Drawing No.						
10111065 - PF - SPA - 08B						



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn		AD		Approved		GB		Date		20/04/2026	
	POI		10		SPA Location		MACHRIHANISH ROAD BEND 1		Status		Draft		Key		Wheel SPA				Overrun	
	Revision		00		Scale		Custom @ A3		Body SPA						Oversail					
	Notes		1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Indicative				DoT											
	Client		SSE RENEWABLES		Drawing No.		10111065 - PF - SPA - 09													



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
10	MACHRIHANISH ROAD BEND 1		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No.							
10111065 - PF - SPA - 09A							

Mitigation

No mitigation measures required.



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

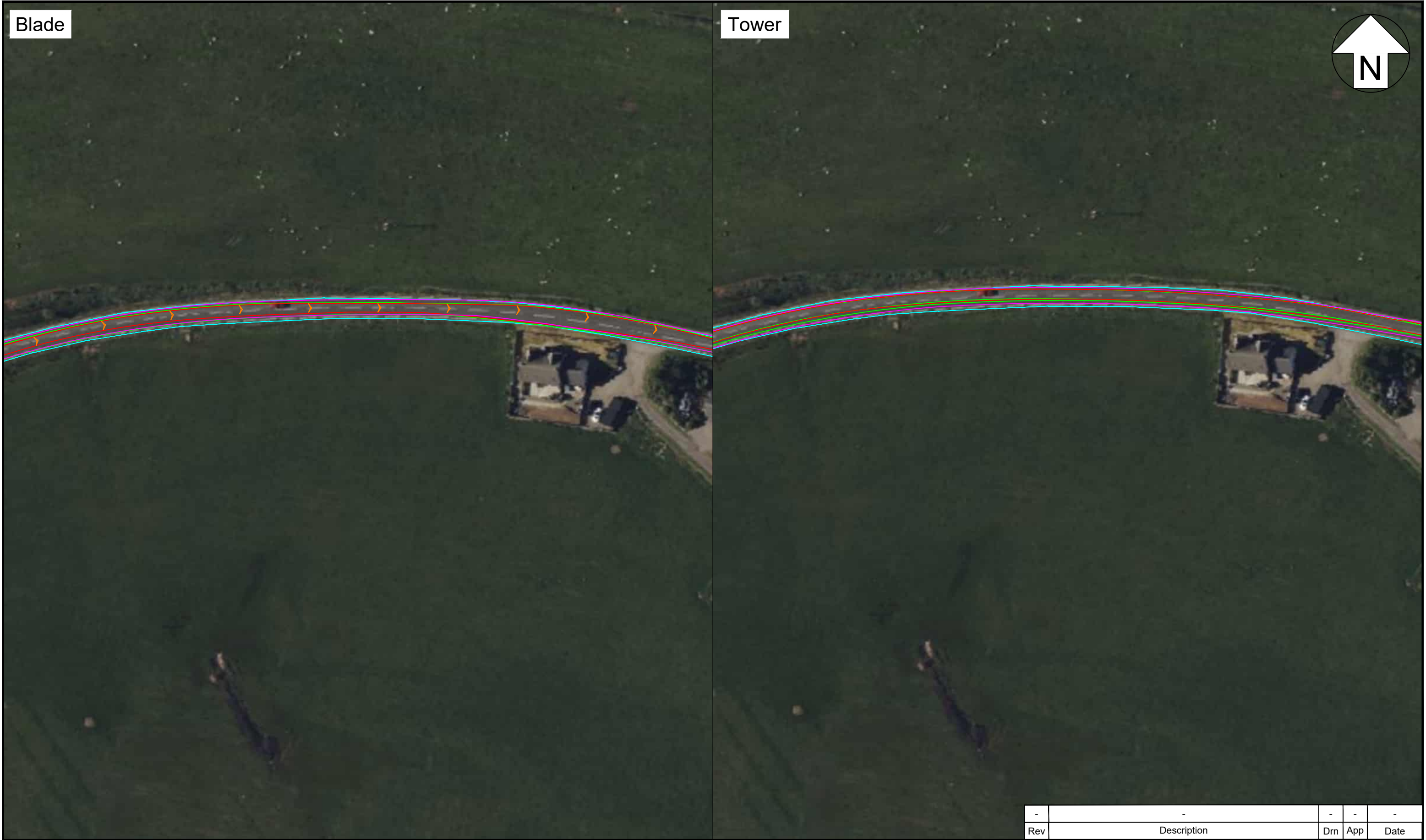
ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
10	MACHRIHANISH ROAD BEND 1		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No.							
10111065 - PF - SPA - 09B							



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Drawing Title		Drawn	AD	Approved	GB	Date	20/04/2026	
	POI	SPA Location			Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
	11	MACHRIHANISH ROAD BEND 2			Revision	00					
	Notes				Scale	1:1_2 @ A3					
	1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.				Drawing No.		10111065 - PF - SPA - 10				
Client		SSE RENEWABLES									



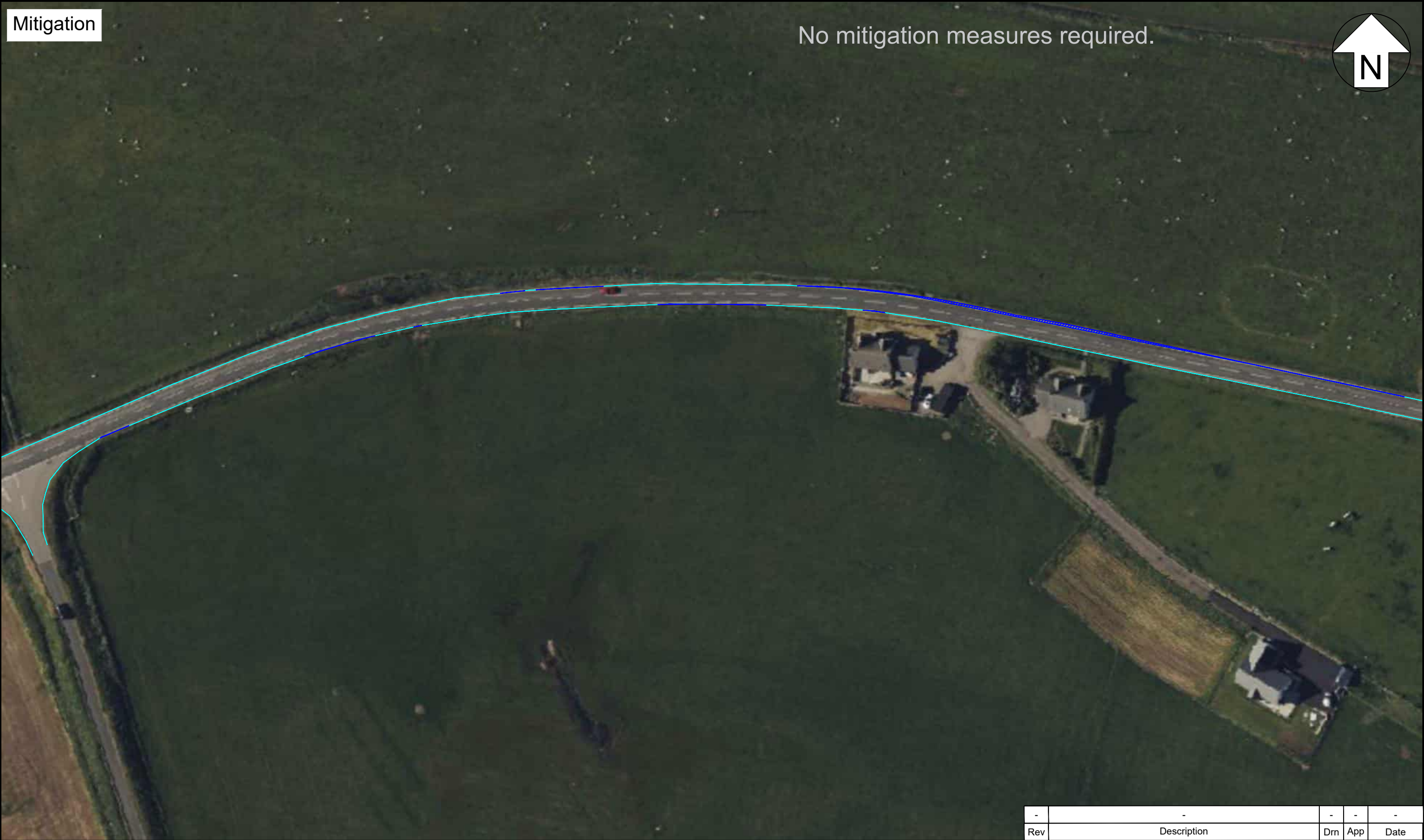
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
11	MACHRIHANISH ROAD BEND 2		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No.				10111065 - PF - SPA - 10A			



Mitigation

No mitigation measures required.



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 11	SPA Location MACHRIHANISH ROAD BEND 2			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
				Revision	00			
				Scale	Custom@ A3			
				Drawing No.				
Client SSE RENEWABLES	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			10111065 - PF - SPA - 10B				



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn		AD		Approved		GB		Date		20/04/2026			
	POI		SPA Location		Status		Draft		Revision		00		Scale		1:1_2 @ A3		Key		Wheel SPA		Overrun	
	12		MACHRIHANISH ROAD BEND 3		Revision		00		Scale		1:1_2 @ A3		Key		Body SPA		Oversail		DoT			
	Notes		1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Revision		1:1_2 @ A3		Scale		Key		Wheel SPA		Overrun		DoT					
	Client				Drawing No.		10111065 - PF - SPA - 11		Key		Wheel SPA		Overrun		DoT							
SSE RENEWABLES																						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
12	MACHRIHANISH ROAD BEND 3		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

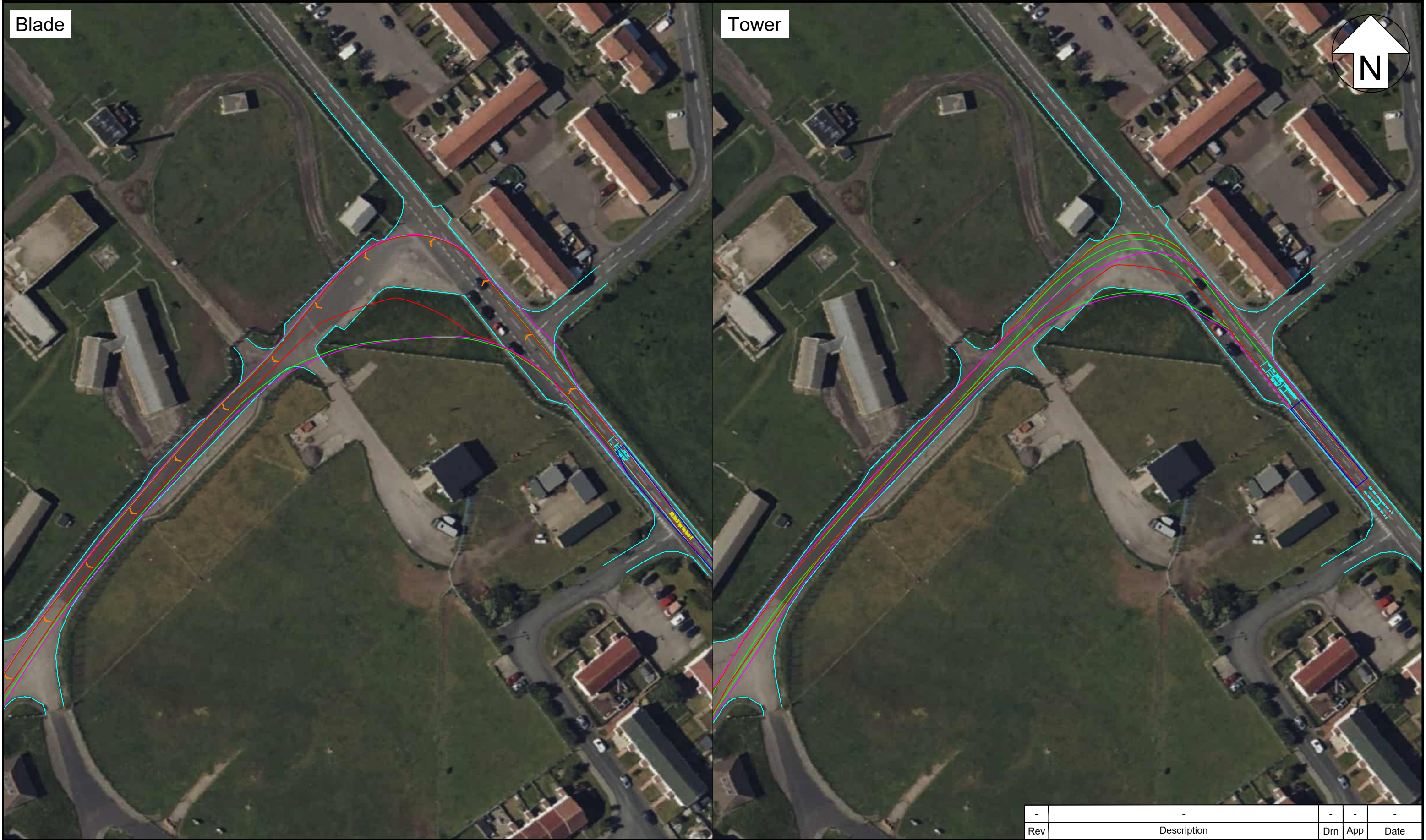
-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No. 10111065 - PF - SPA - 11A							

Mitigation

No mitigation measures required.



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 12	SPA Location MACHRIHANISH ROAD BEND 3			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
					Revision	00		
					Scale	Custom@ A3		
					Drawing No. 10111065 - PF - SPA - 11B			
Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Client SSE RENEWABLES						



Pell Frischmann

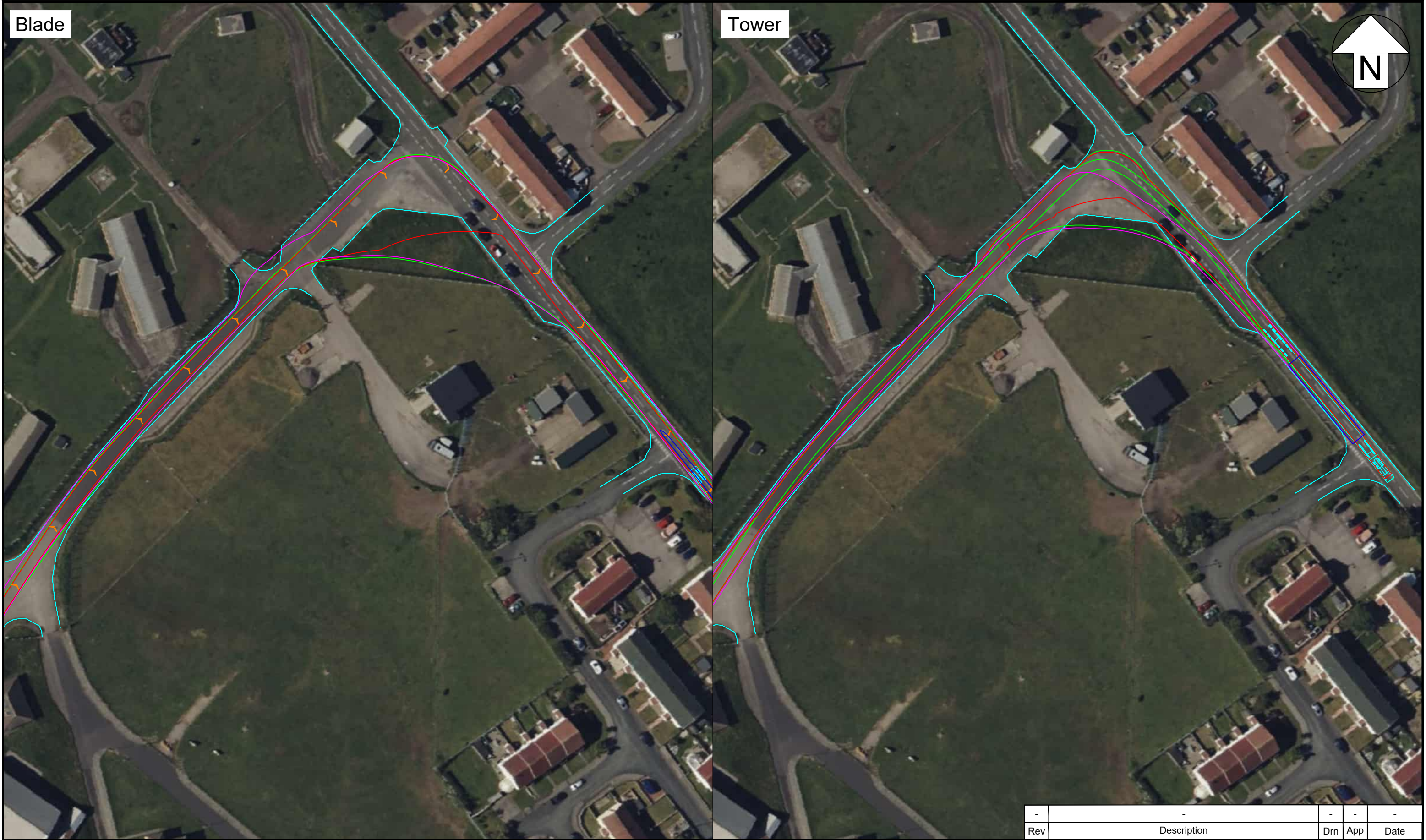
93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		13		SPA Location		CS WIND ACCESS JUNCTION	
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

-	-			-	-	-
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative		Overrun	
Revision	00				Oversail	
Scale	Custom@ A3				DoT	
Drawing No. 10111065 - PF - SPA - 12						



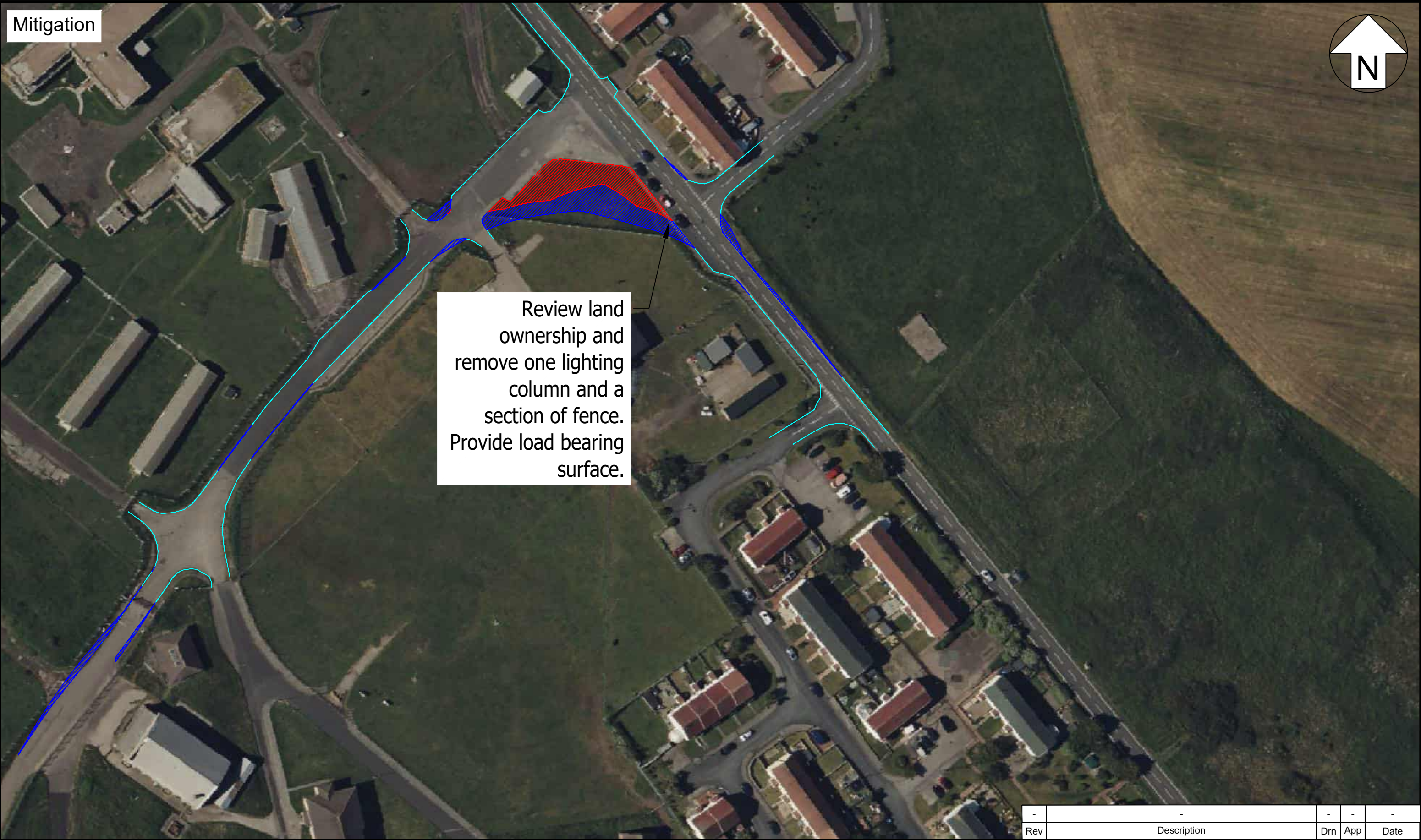
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client **SSE RENEWABLES**

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		13		SPA Location		CS WIND ACCESS JUNCTION	
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative		Overrun		
Revision	00				Oversail		
Scale	Custom@ A3				DoT		
Drawing No. 10111065 - PF - SPA - 12A							



Pell Frischmann

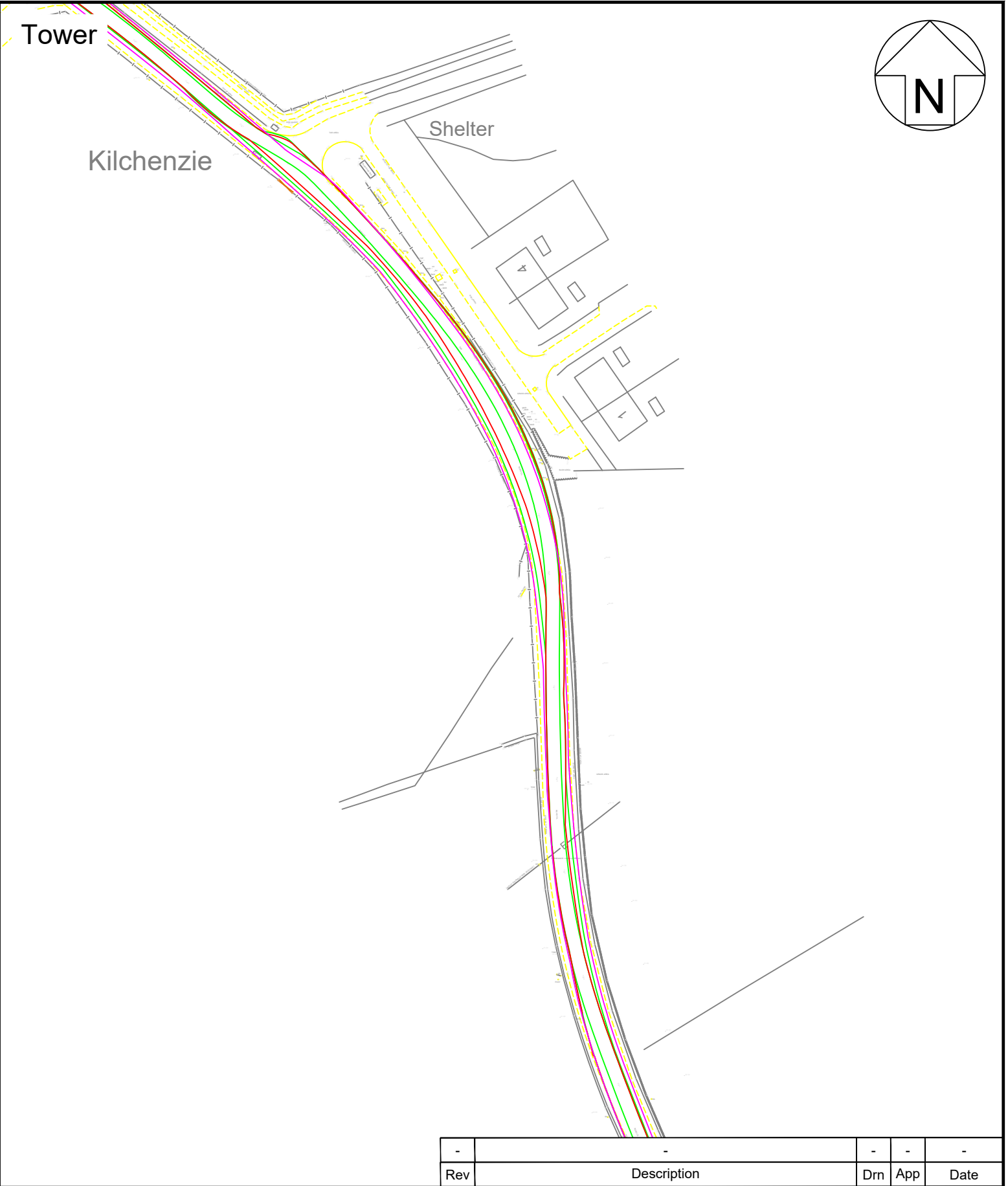
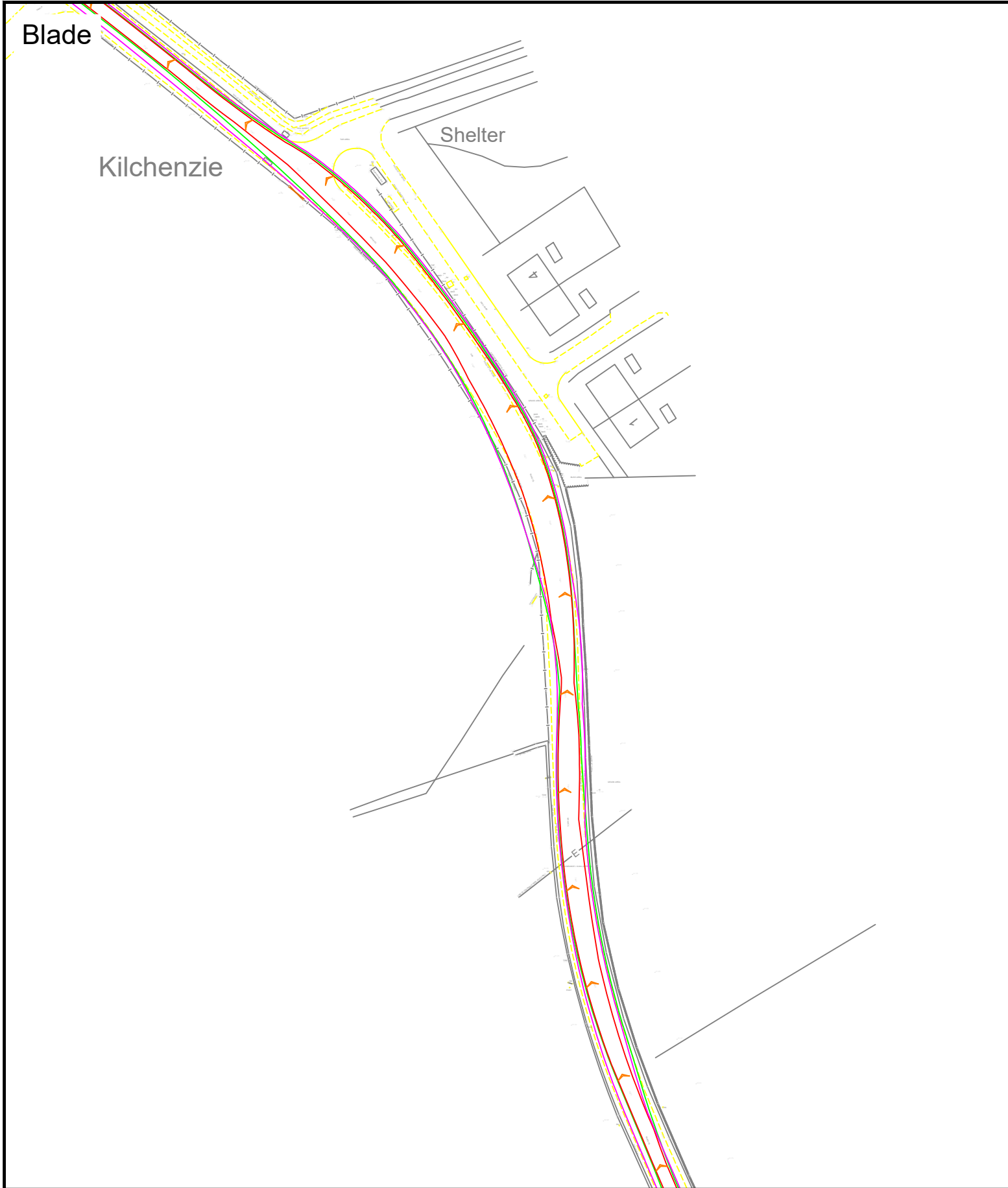
93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		13		SPA Location		CS WIND ACCESS JUNCTION	
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

Drawn		AD		Approved		GB		Date		20/04/2026	
Status		Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT							
Revision		00									
Scale		Custom@ A3									
Drawing No.											
10111065 - PF - SPA - 12B											



Pell Frischmann

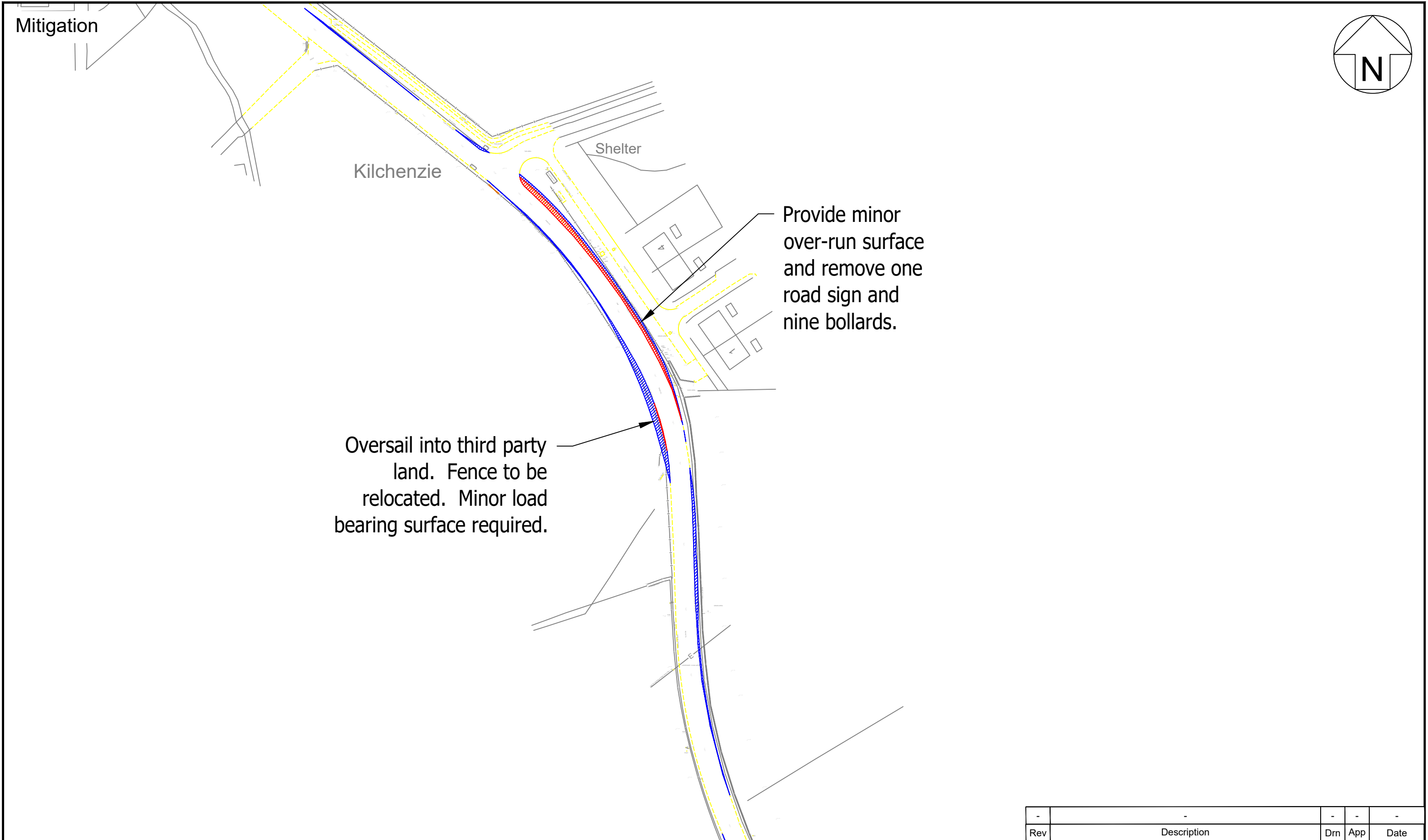
93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		14		SPA Location		A83 WELLPARK BENDS	
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No.					10111065 - PF - SPA - 13		



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD		Approved GB		Date 20/04/2026	
	POI 14	SPA Location A83 WELLPARK BENDS			Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
					Revision	00				
					Scale	1:1_2 @ A3				
					Drawing No.		10111065 - PF - SPA - 13A			
Client SSE RENEWABLES		Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.								



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

ProjectTANGY IV WIND FARM

POI15 / 16

SPA LocationA83 DRUM FARM JUNCTION

Notes

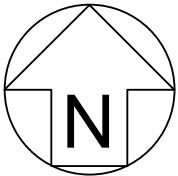
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing TitleN149 BLADE & TOWER

Rev	-			Drn	-	App	-	Date	-
Drawn	AD	Approved	GB	Date					20/04/2026
Status	Draft		Key		Wheel SPA				Overrun
Revision	00		Body SPA		Oversail				
Scale	1:1_2 @ A3		Load SPA		DoT				
Indicative									

Drawing No.10111065 - PF - SPA - 14

©Pell Frischmann Consultants



Provide over-run surface in third party land. Gates and fence to be relocated.

Provide over-run surface in third party land. Gates and fence to be relocated. Road to be widened to suit turbine supplier standards.

Provide over-run surface in third party land and remove one utility pole, one road sign and one bollard. Gates and fence to be relocated.

Pell Frischmann

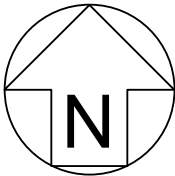
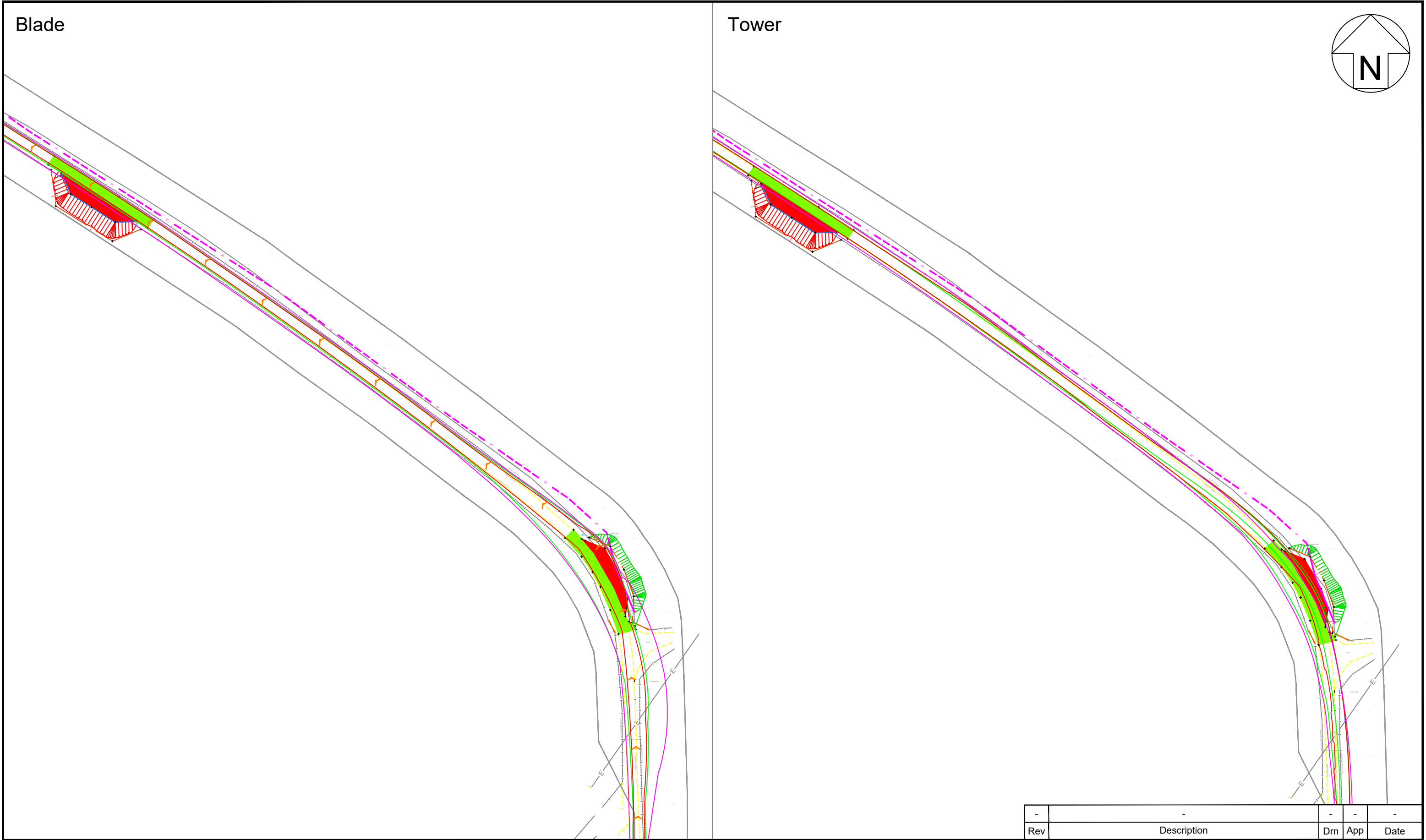
93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

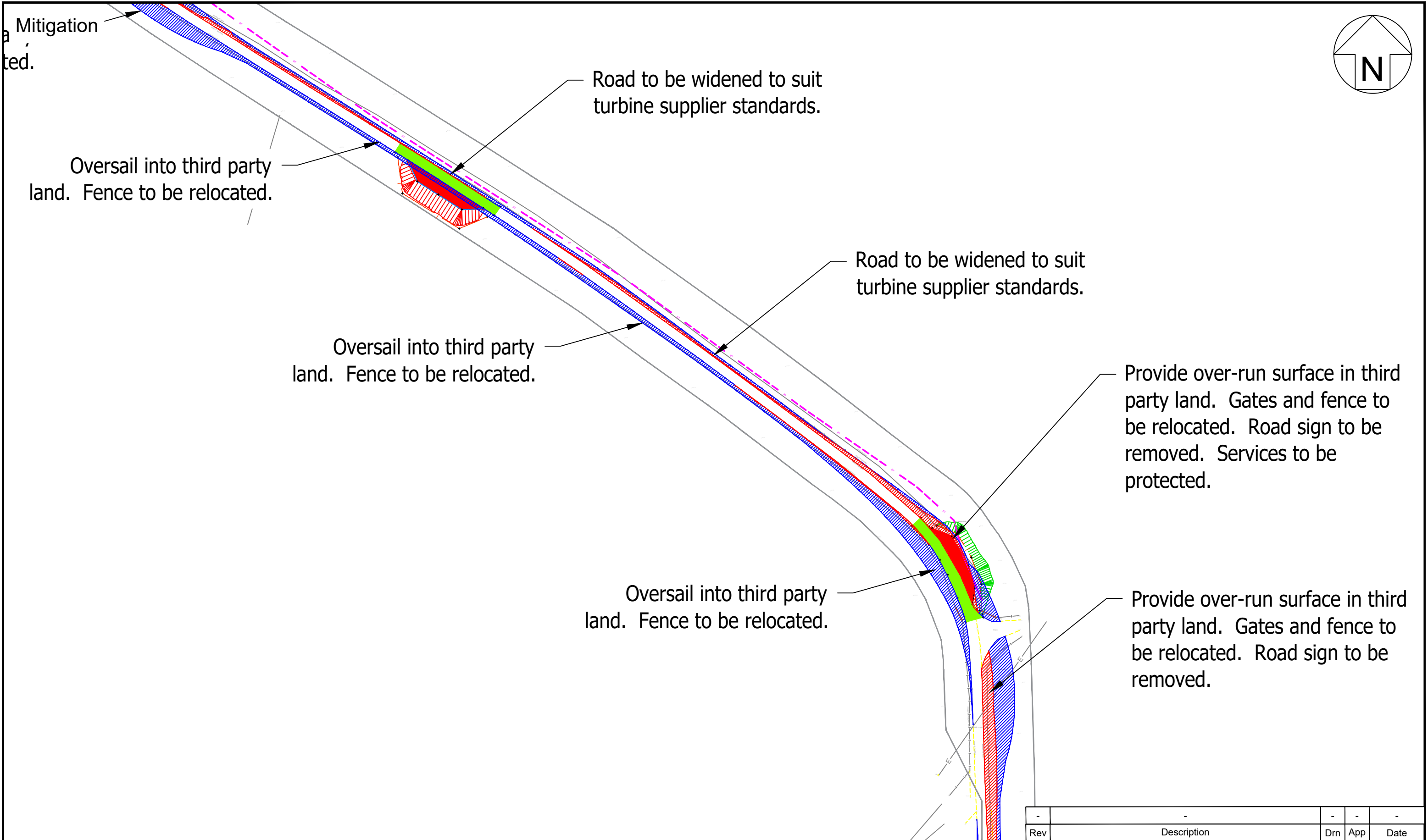
SSE RENEWABLES

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		15/ 16		SPA Location		A83 DRUM FARM JUNCTION	
Notes							
1. All mitigation is subject to confirmation through a test run.							
2. This is not a construction drawing and is intended for illustration purposes only.							
3. Do not scale from this drawing.							

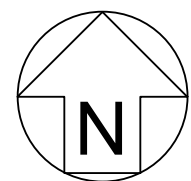
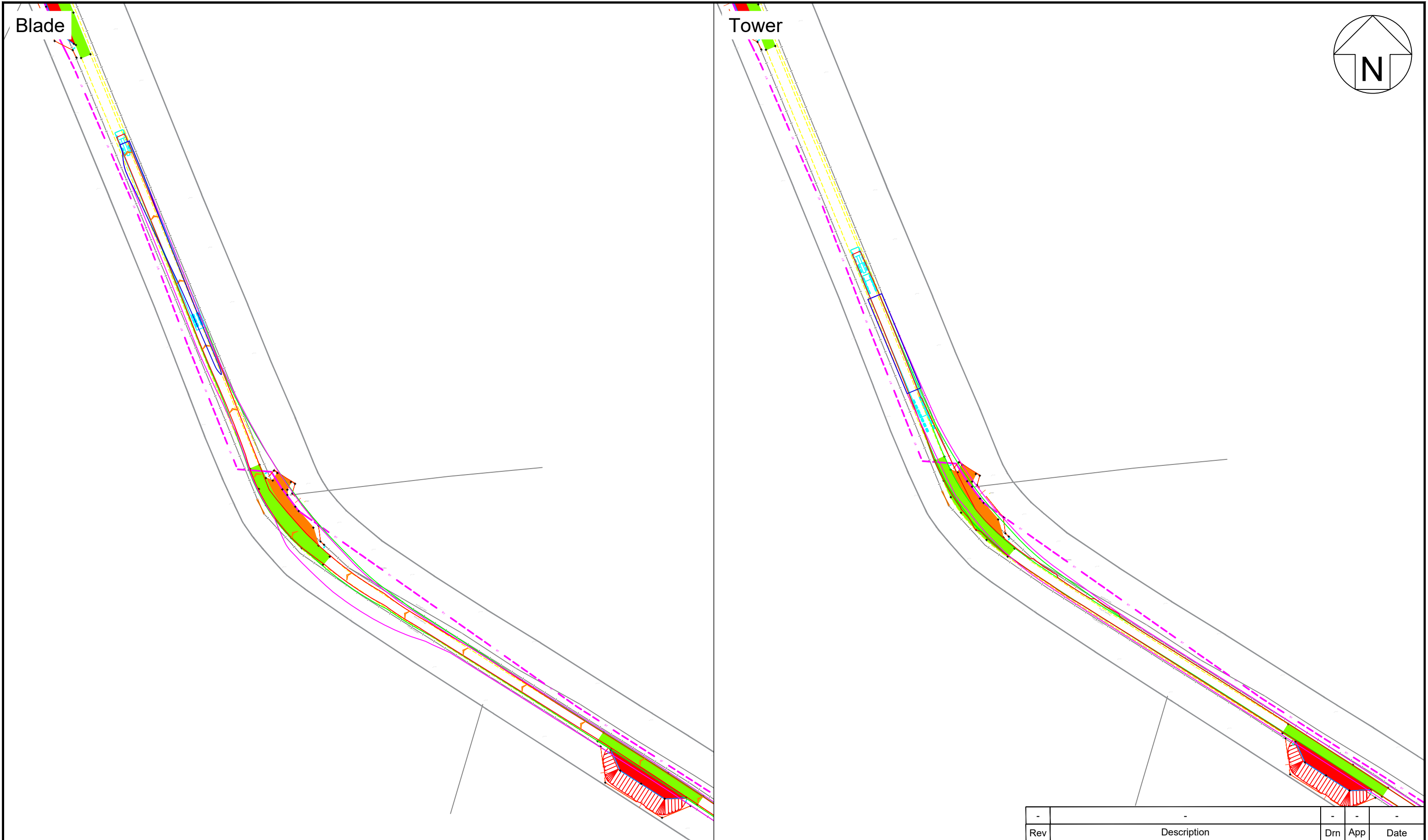
-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No.							
10111065 - PF - SPA - 14A							



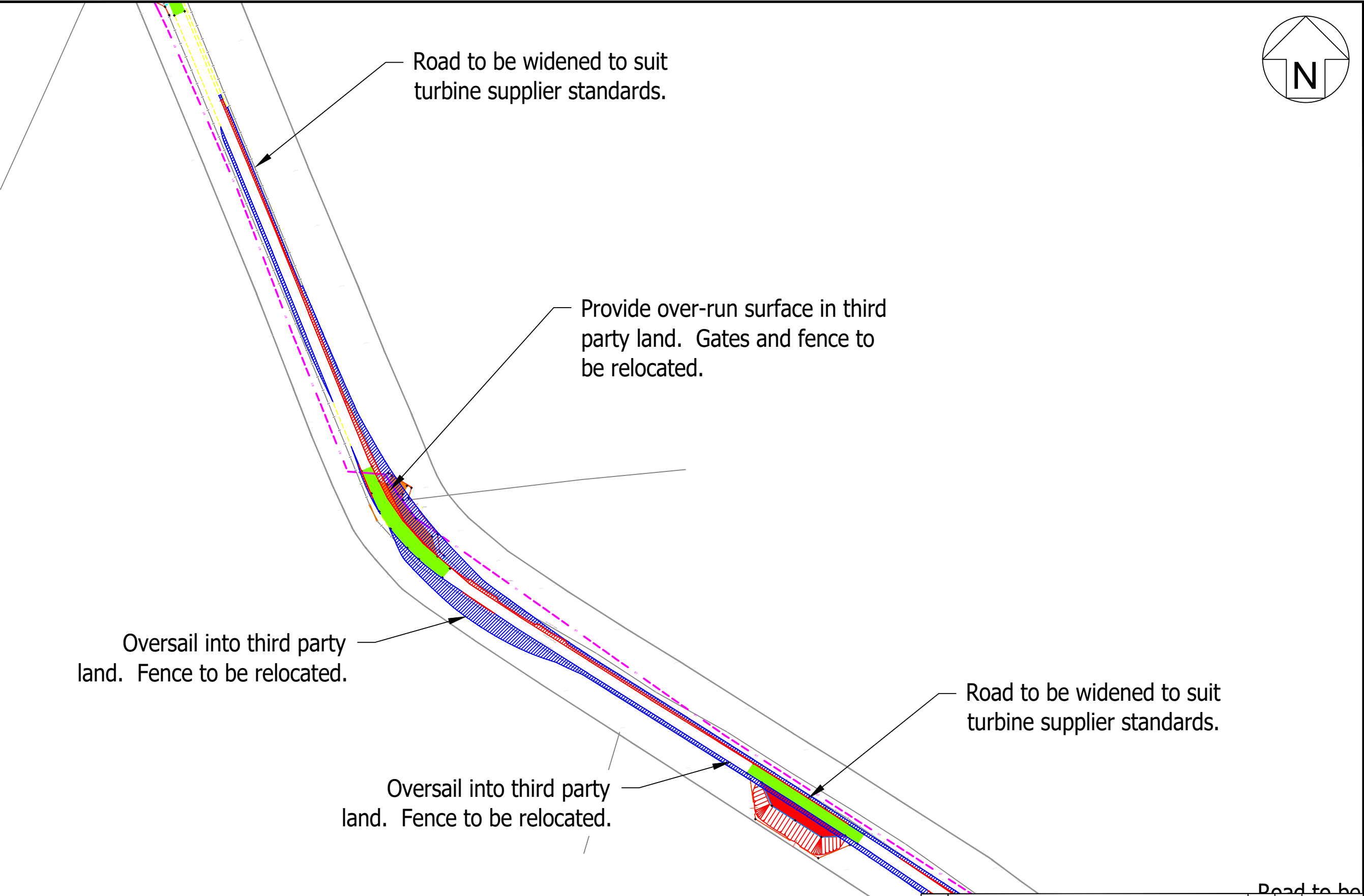
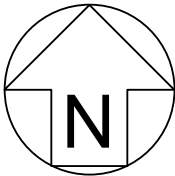
Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 17	SPA Location BEND NORTH OF DRUM FARM			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
					Revision	00		
	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Scale	Custom@ A3			
				Drawing No. 10111065 - PF - SPA - 15				
Client SSE RENEWABLES								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD		Approved GB		Date 20/04/2026	
	POI 17	SPA Location BEND NORTH OF DRUM FARM			Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
					Revision	00				
					Scale	1:1_2 @ A3				
					Drawing No. 10111065 - PF - SPA - 15A					
Client SSE RENEWABLES		Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date	20/04/2026	
	POI	SPA Location						Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	Status	Draft					
	18	BEND SOUTH OF OLD SCHOOLHOUSE							Revision	00					
	Notes						Scale		Custom @ A3						
							Drawing No.				10111065 - PF - SPA - 16				
Client	SSE RENEWABLES						1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.								



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

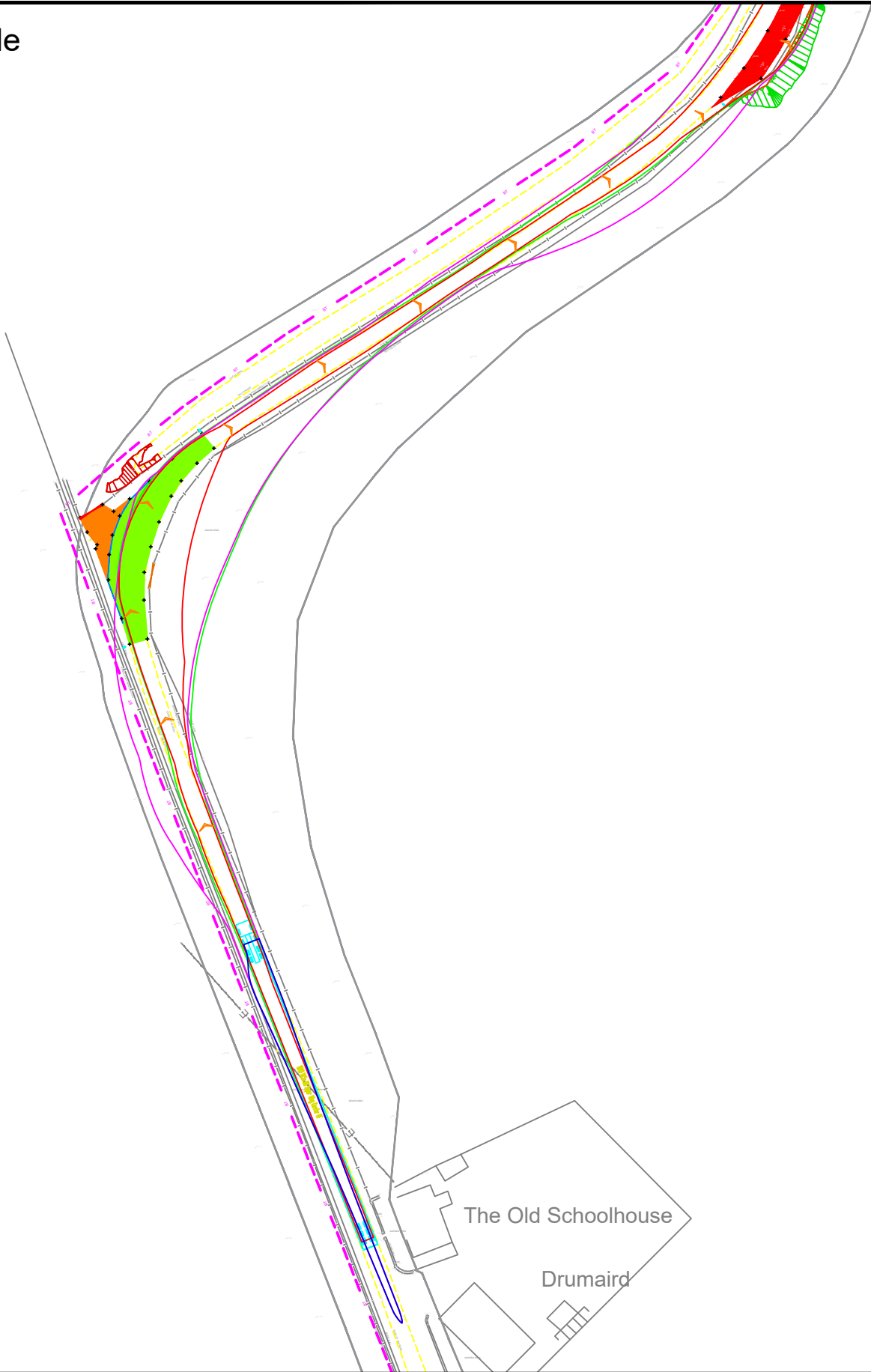
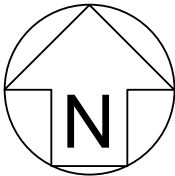
Client **SSE RENEWABLES**

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		18		SPA Location		BEND SOUTH OF OLD SCHOOLHOUSE	
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT					
Revision	00						
Scale	1:1_2 @ A3						
Drawing No. 10111065 - PF - SPA - 16A							

Blade

Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client
SSE RENEWABLES

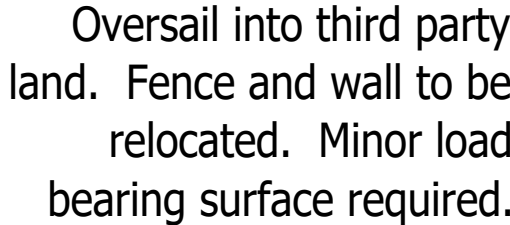
Project
TANGY IV WIND FARM

POI
19
SPA Location
BEND NORTH OF OLD SCHOOLHOUSE

Notes
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing Title
N149 BLADE & TOWER

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No. 10111065 - PF - SPA - 17							



Provide over-run surface in third party land. Gates and fence to be relocated. Road to be widened to suit turbine supplier standards.

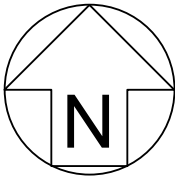
Cup-Marked Rock

-	-	-	-
Rev	Description	Drm	App Date
Drawn	AD	Approved	GB
Date	20/04/2026		
Status	Draft	Key  Wheel SPA  Body SPA  Load SPA  Indicative	
Revision	00	 Overrun  Oversail	
Scale	Custom@ A3	 DoT	
Drawing No. 10111065 - PF - SPA - 17A			

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
19	BEND NORTH OF OLD SCHOOLHOUSE		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

Blade

Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client
SSE RENEWABLES

Project
TANGY IV WIND FARM

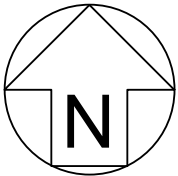
POI
20 / 21

SPA Location
BENDS SOUTH OF HIGH BALLEVAIN

Notes
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing Title
N149 BLADE & TOWER

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No. 10111065 - PF - SPA - 18							



Oversail into third party land. Fence to be relocated. Minor load bearing surface required.

Provide over-run surface in third party land. Gates and fence to be relocated. Road to be widened to suit turbine supplier standards.

Provide over-run surface in third party land. Gates and fence to be relocated. Road to be widened to suit turbine supplier standards.

Oversail into third party land. Fence to be relocated. Minor load bearing surface required.

Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

ProjectTANGY IV WIND FARM

Drawing TitleN149 BLADE & TOWER

POI20 / 21

SPA LocationBENDS SOUTH OF HIGH BALLEVAIN

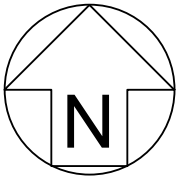
Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

-	-	-	-	-
Rev	Description			Drn App Date
Drawn	AD	Approved	GB	Date20/04/2026
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
Revision	00			
Scale	Custom@ A3			
Drawing No.		10111065 - PF - SPA - 18A		



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 22	SPA Location HIGH BALLEVAIN			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
					Revision	00		
					Scale	Custom@ A3		
	Notes	1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Drawing No.		10111065 - PF - SPA - 19	
Client SSE RENEWABLES								



Oversail into third party
land. Fence to be relocated.

69.8m

Road to be widened to suit
turbine supplier standards.

Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

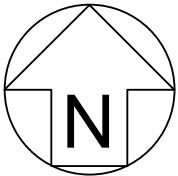
Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
22	HIGH BALLEVAIN		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No. 10111065 - PF - SPA - 19A							



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn		AD		Approved		GB		Date		20/04/2026	
	POI		23		SPA Location		BEND NORTH OF HIGH BELLEVAIN		Status		Draft		Key		Wheel SPA				Overrun	
	Notes		1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.		Revision		00		Body SPA						Oversail					
					Scale		Custom @ A3		Load SPA						DoT					
					Drawing No.		10111065 - PF - SPA - 20													
Client		SSE RENEWABLES																		

Mitigation



Oversail into third party land. Fence to be relocated. Provide minor over-run surface.

Road to be widened to suit turbine supplier standards.

Provide over-run surface in third party land and place ditch into a culvert. Gates and fence to be relocated. Road to be widened to suit turbine supplier standards.

Oversail into third party land. Fence to be relocated.

Oversail into third party land. Fence to be relocated.

Road to be widened to suit turbine supplier standards.

Road to be widened to suit turbine supplier standards.

Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

Drawing Title

N149 BLADE & TOWER

POI

23

SPA Location

BEND NORTH OF HIGH BELLEVAIN

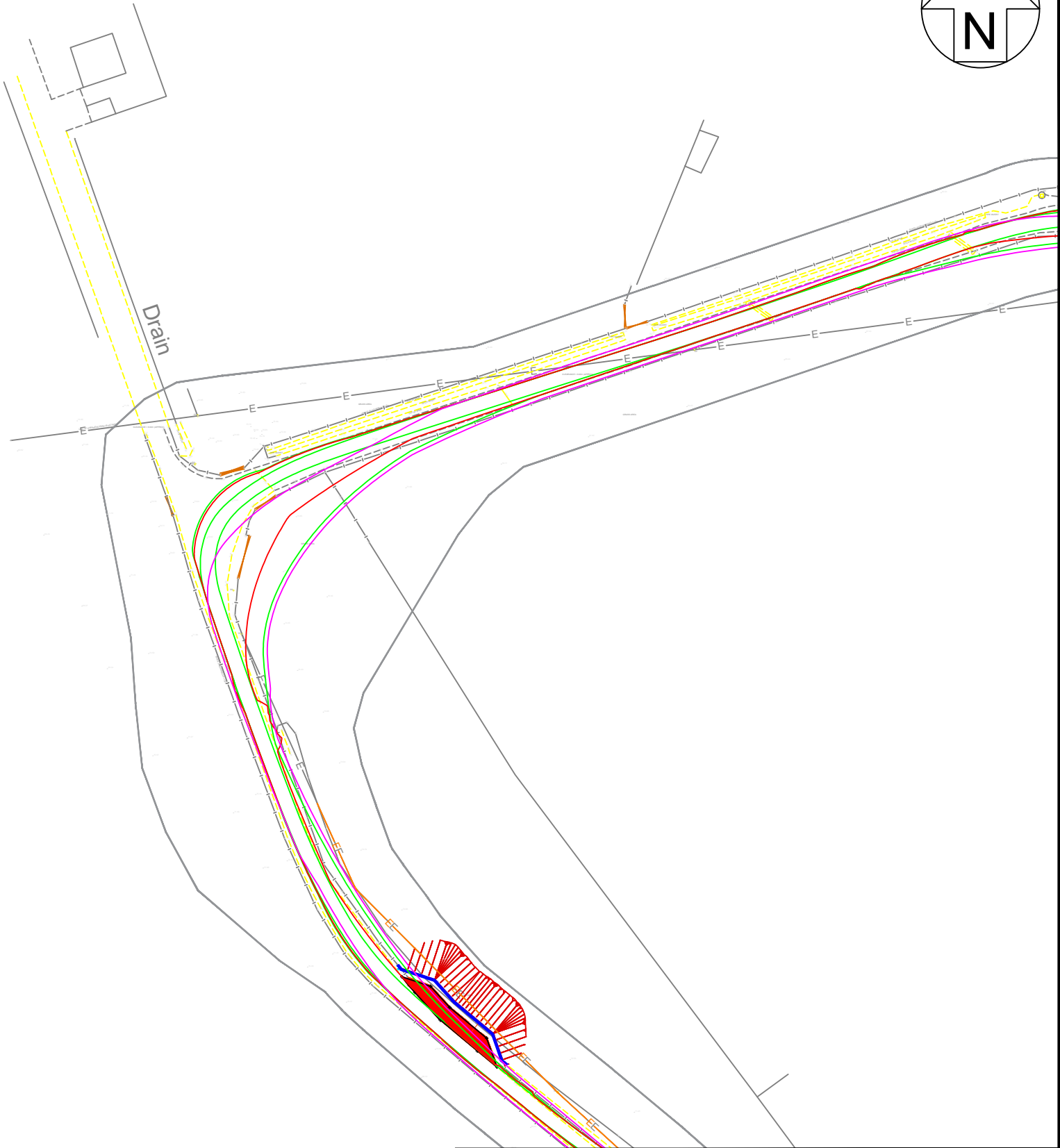
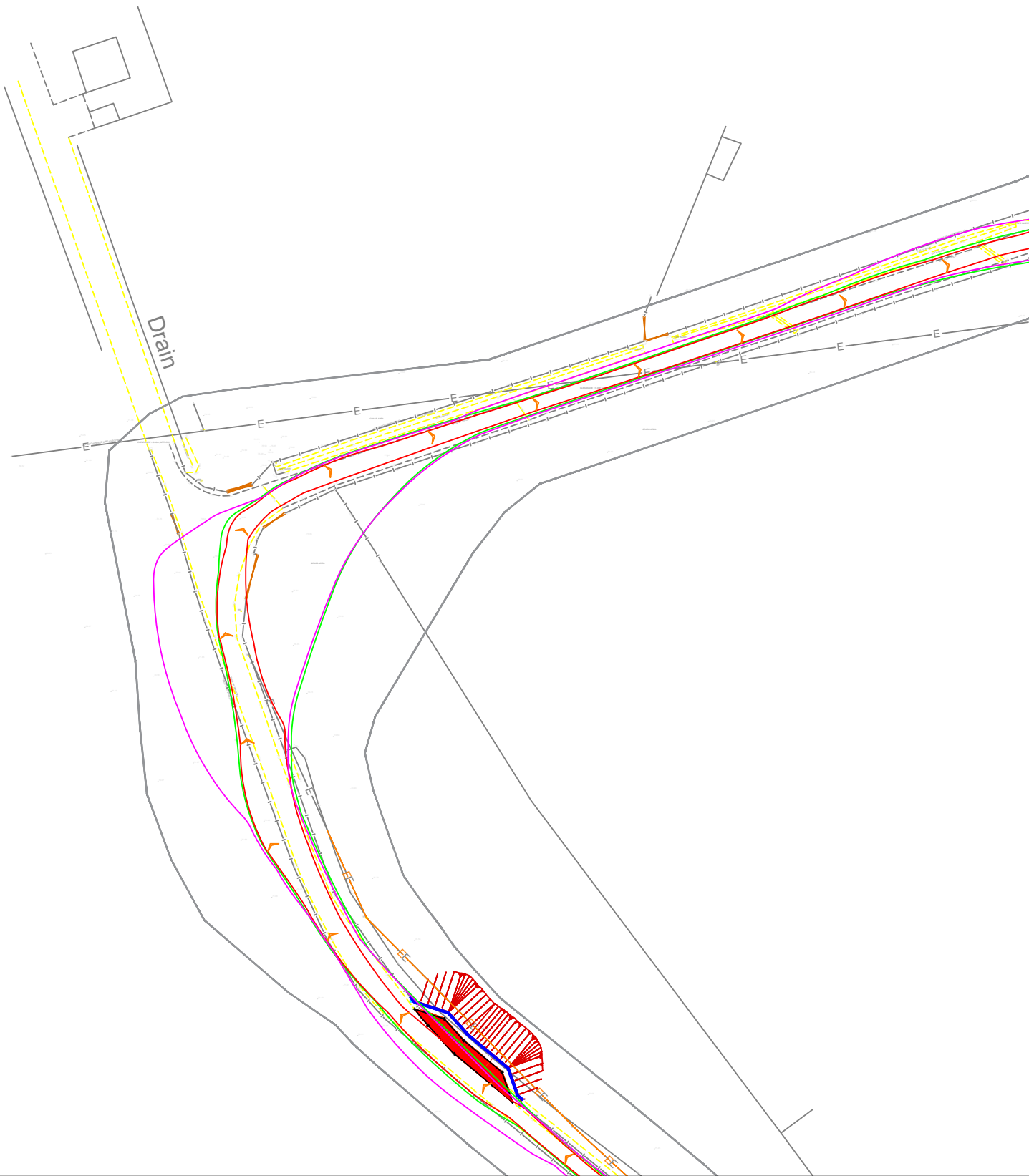
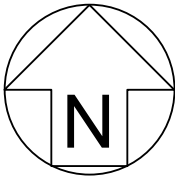
Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	Custom@ A3					
Drawing No.						
10111065 - PF - SPA - 20A						

Blade

Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

POI

24 / 25

SPA Location

BENDS SOUTH OF HIGH BELLEVAIN COTTAGE

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

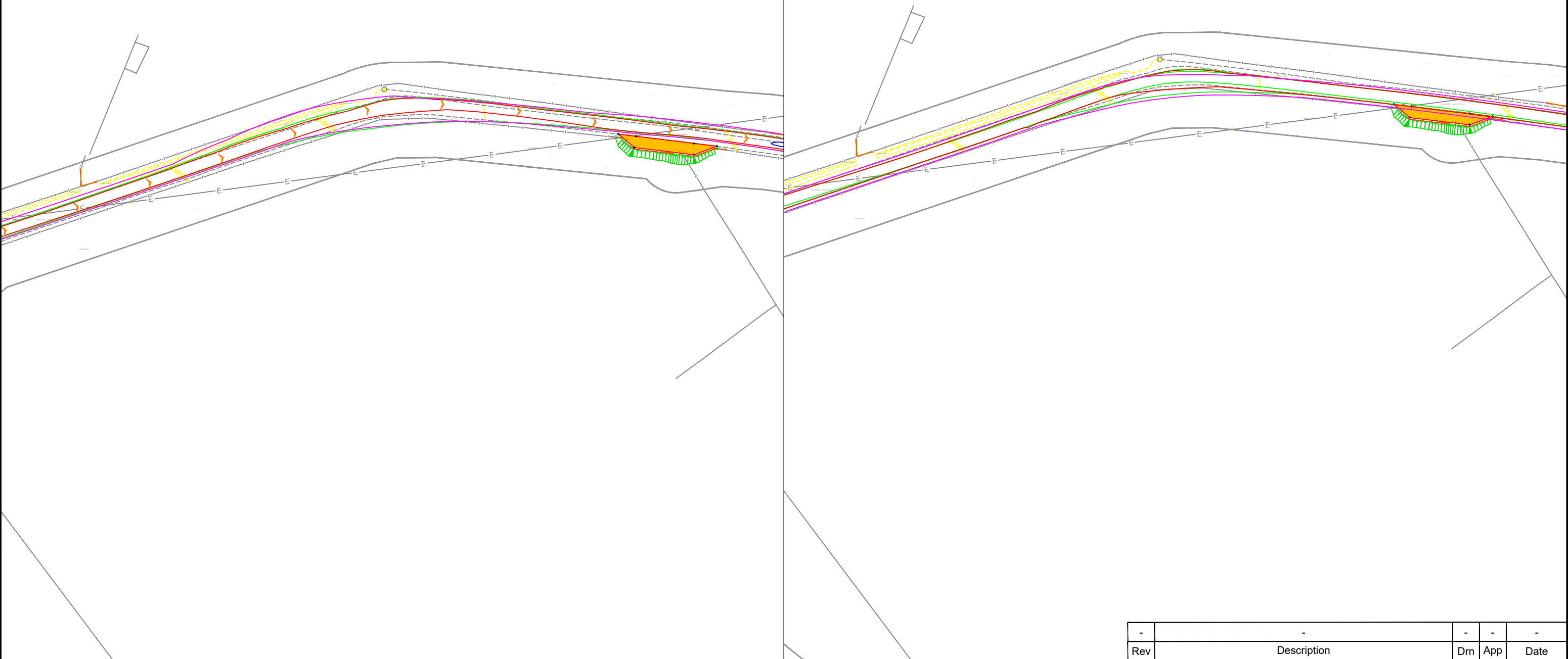
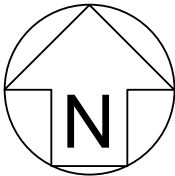
Drawing Title

N149 BLADE & TOWER

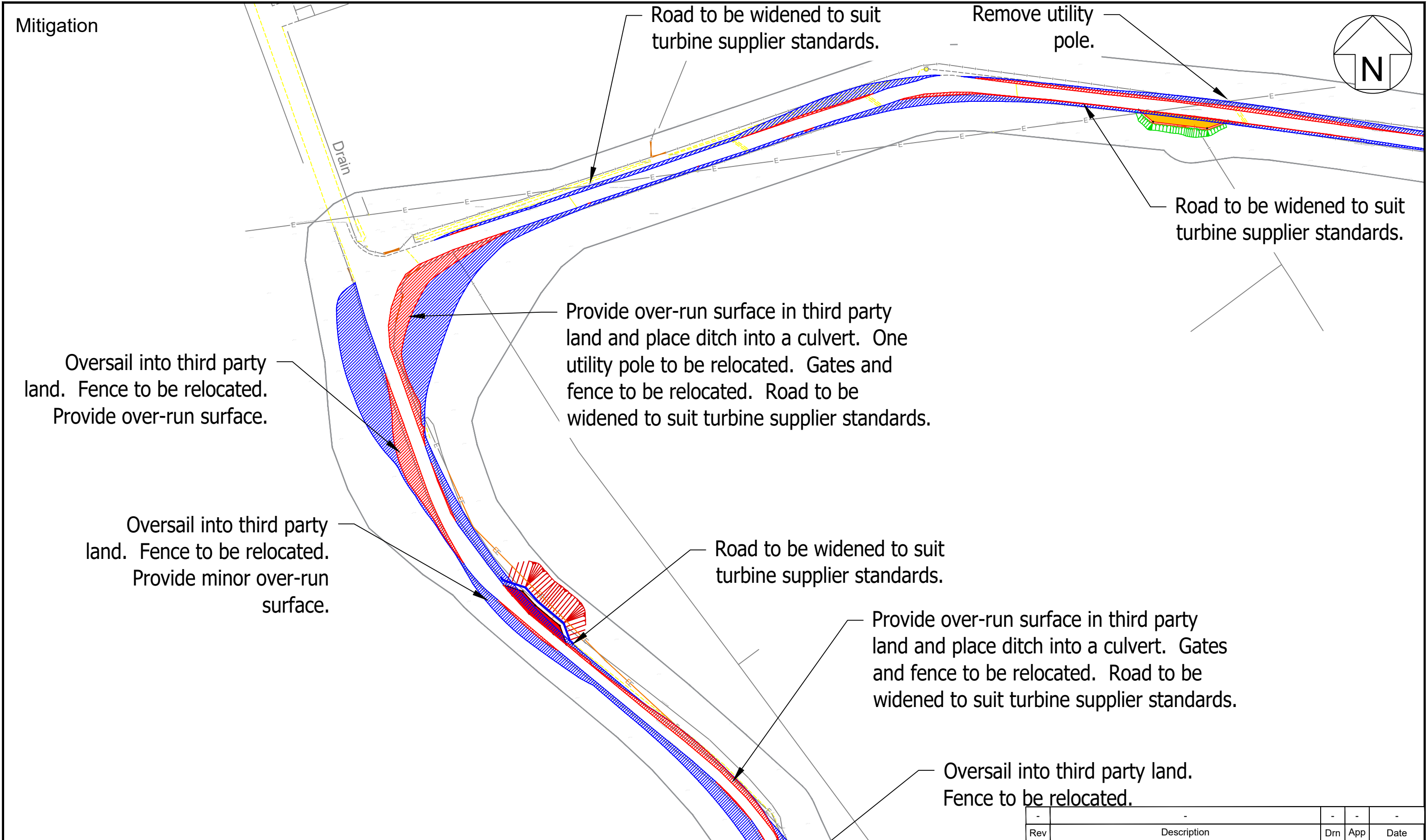
-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	1:1_2 @ A3						
Drawing No.							
10111065 - PF - SPA - 21							

Blade

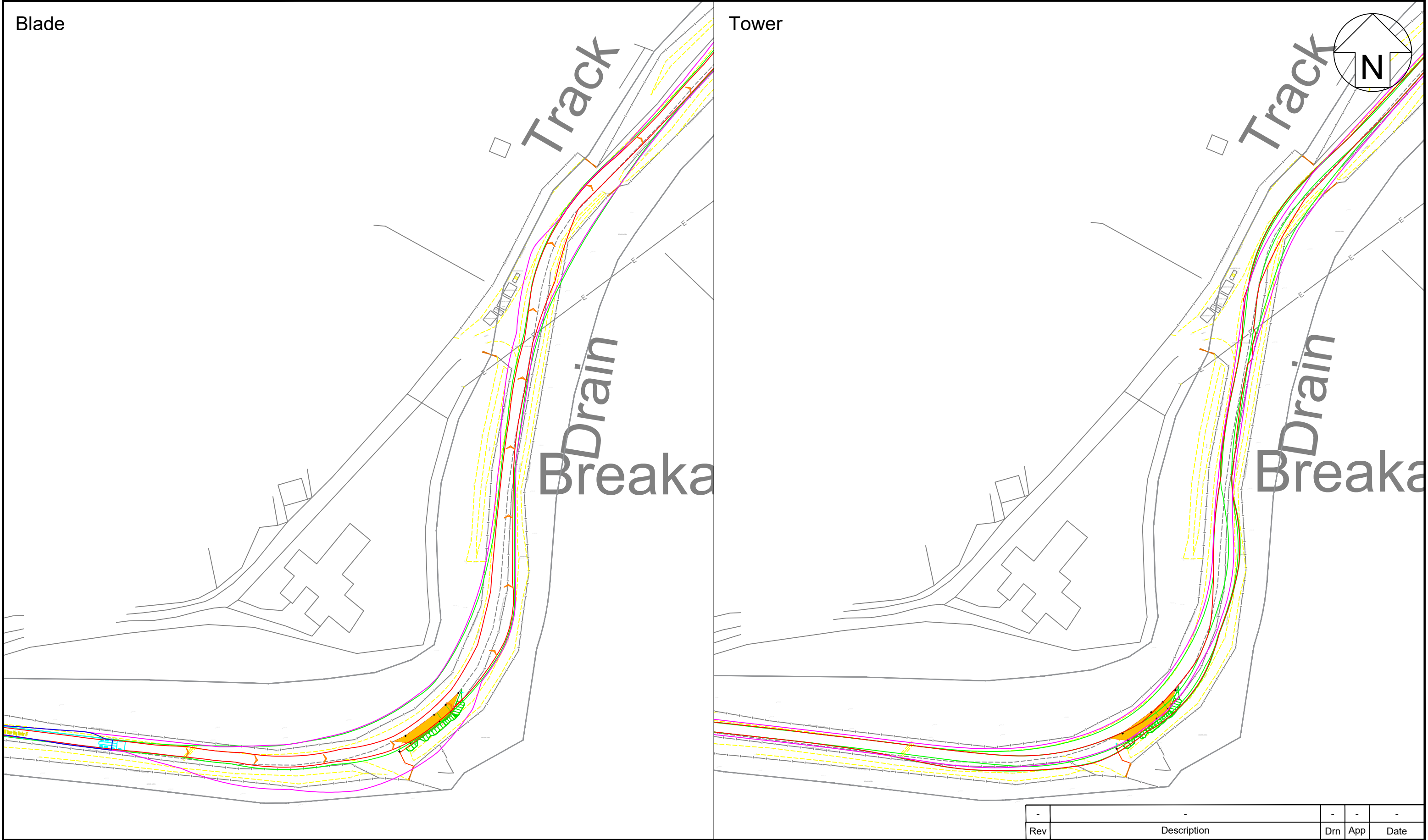
Tower



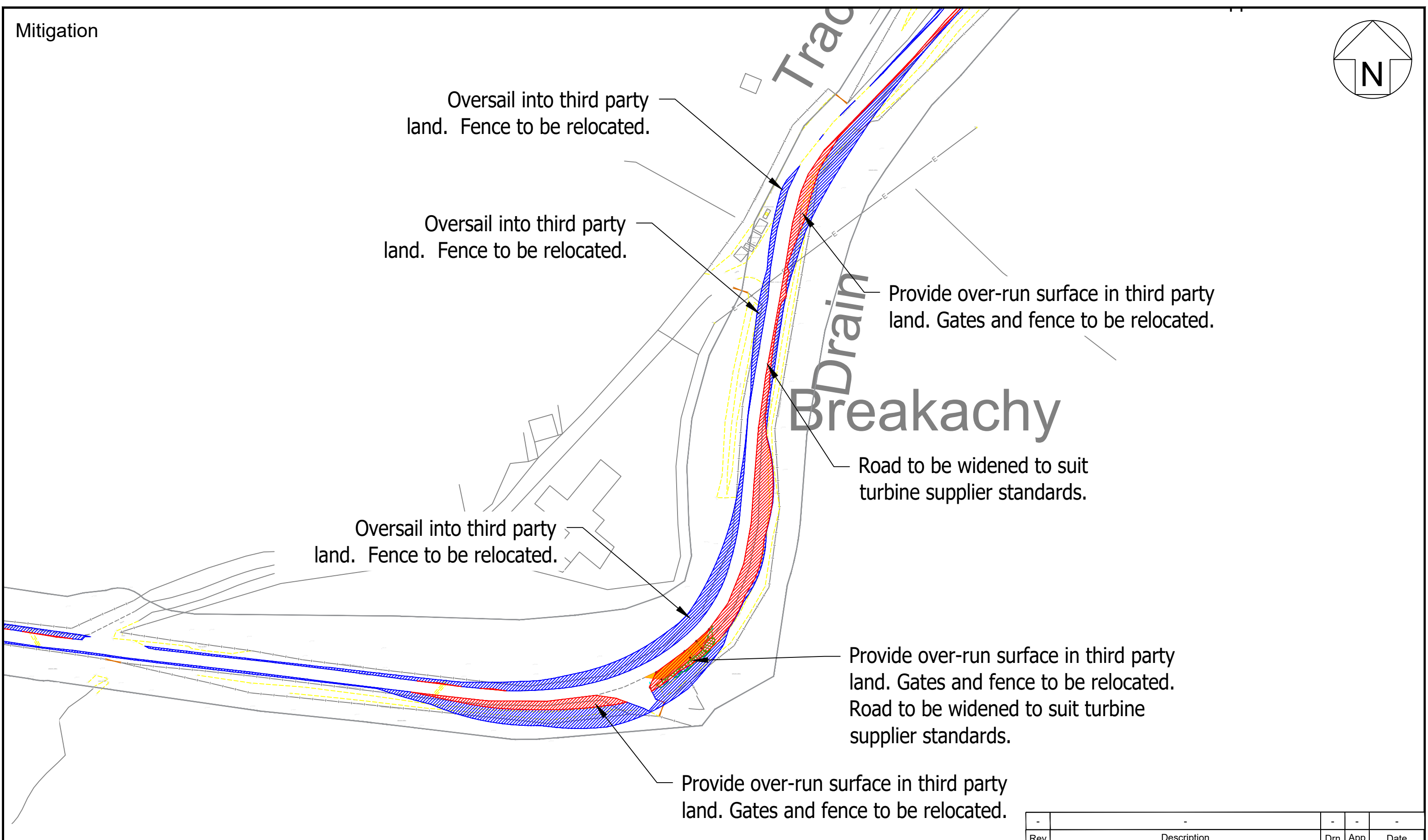
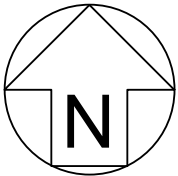
Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 26	SPA Location BENDS EAST OF HIGH BELLEVAIN COTTAGE			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Revision	00			
				Scale	1:1_2 @ A3			
				Drawing No. 10111065 - PF - SPA - 21A				
Client SSE RENEWABLES								



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date		20/04/2026	
	POI		SPA Location				Status		Draft		Key		Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
	24 - 26		BANDS AT HIGH BELLEVAIN COTTAGE				Revision		00							
	Notes						Scale		Custom @ A3							
	Client		SSE RENEWABLES										Drawing No.		10111065 - PF - SPA - 21B	



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER		Drawn	AD	Approved	GB	Date		20/04/2026	
	POI		SPA Location		BREAKACHY BENDS		Status		Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT					
	27 / 28						Revision		00							
	Notes						Scale		1:1_2 @ A3							
	Client		SSE RENEWABLES				Drawing No.		10111065 - PF - SPA - 22							
				1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.												



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

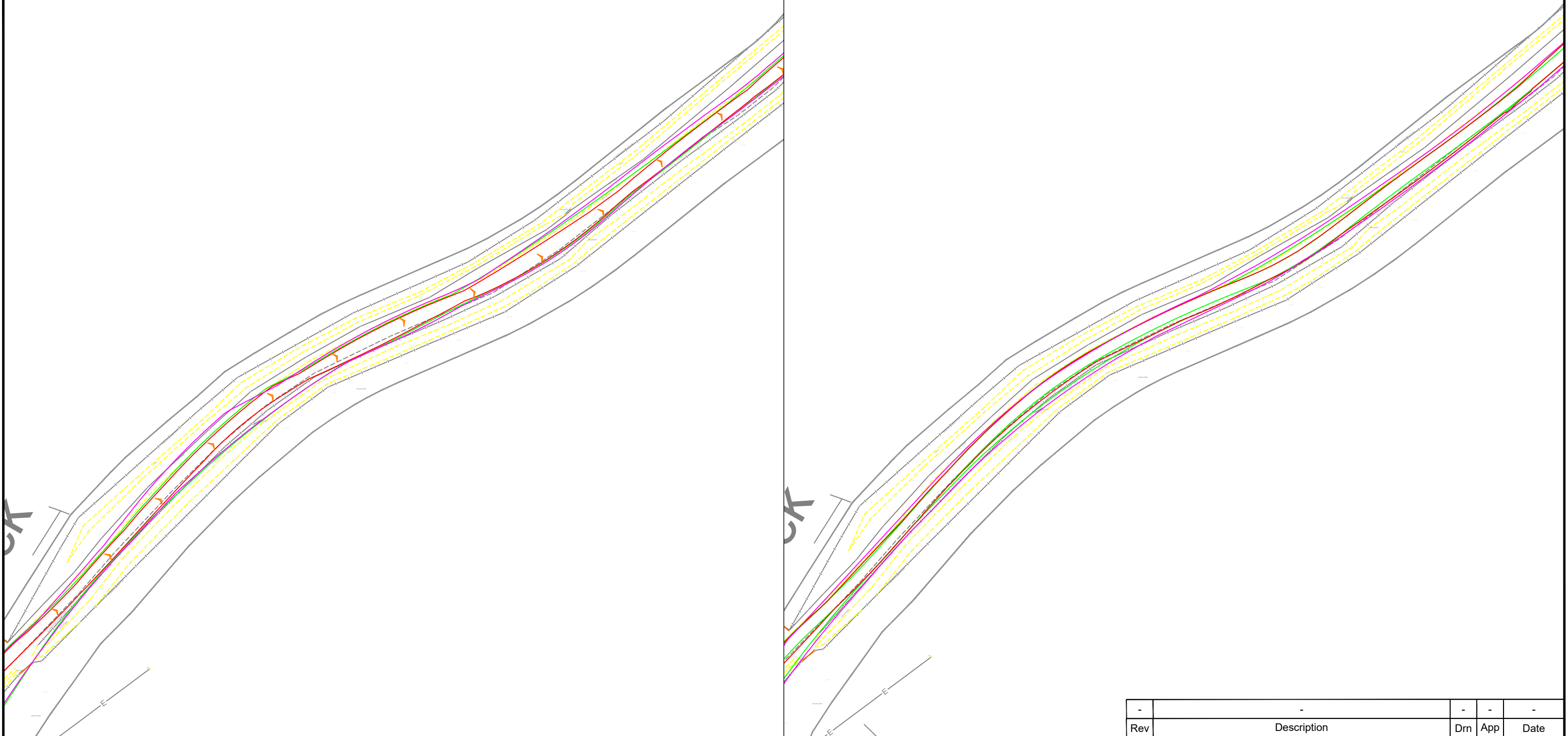
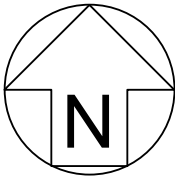
ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
27 / 28	BREAKACHY BENDS		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No.							
10111065 - PF - SPA - 22A							

Blade

Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client
SSE RENEWABLES

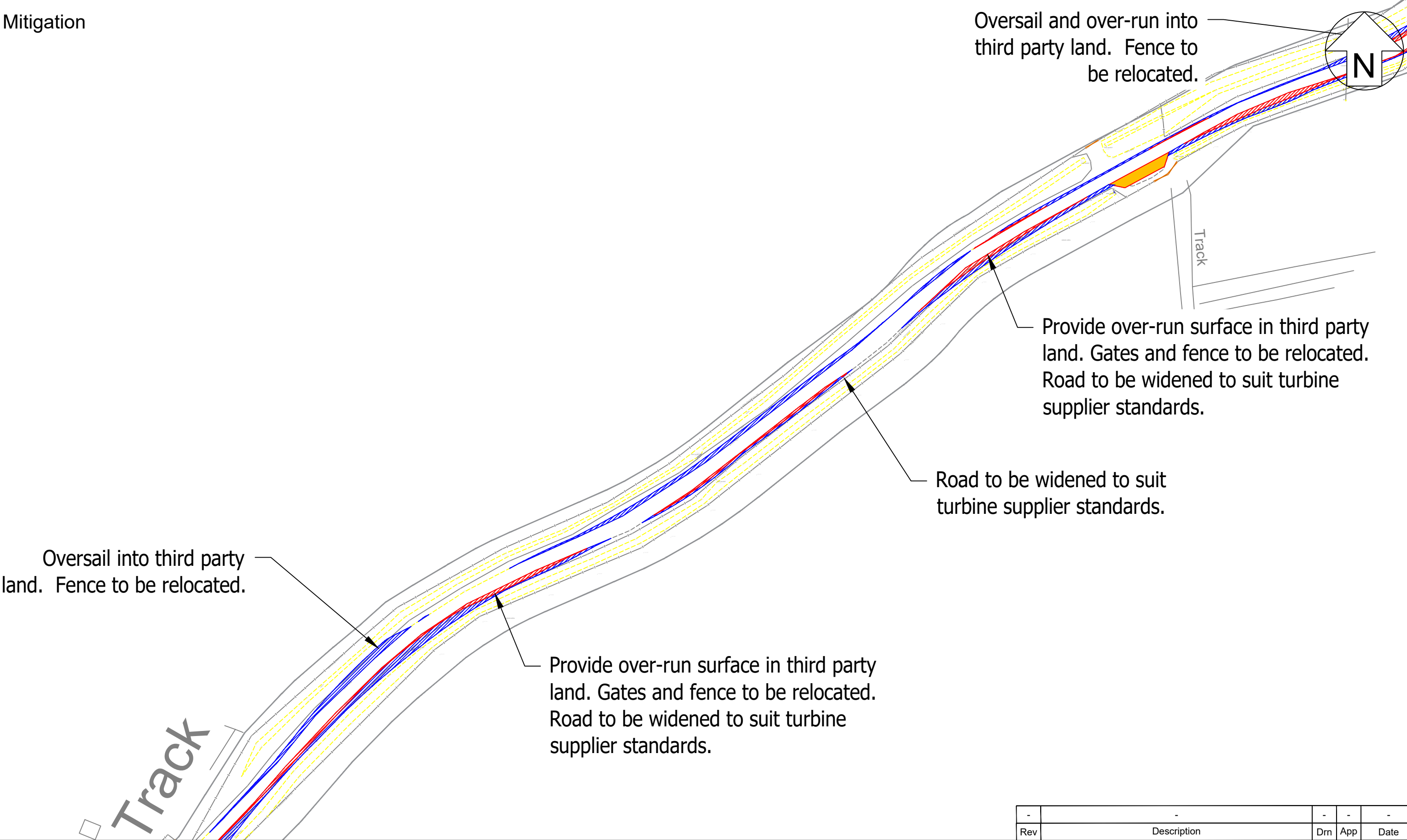
Project
TANGY IV WIND FARM

POI
29
SPA Location
BENDS NORTHEAST OF BREAKACHY

Notes
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing Title
N149 BLADE & TOWER

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	1:1_2 @ A3					
Drawing No. 10111065 - PF - SPA - 23						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

Drawing Title

N149 BLADE & TOWER

POI

29

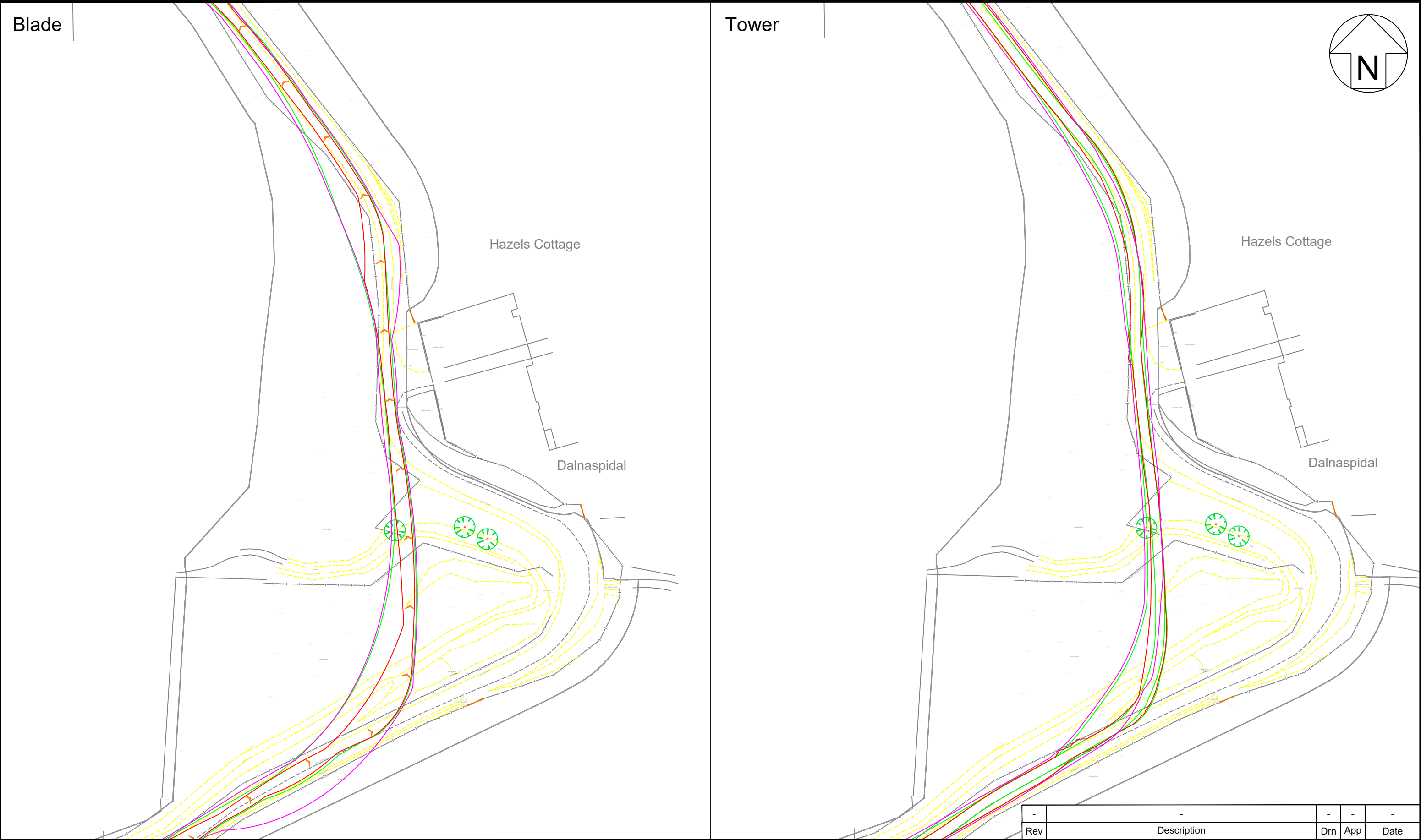
SPA Location

BENDS NORTHEAST OF BREAKACHY

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	Custom@ A3					
Drawing No.						
10111065 - PF - SPA - 23A						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

ProjectTANGY IV WIND FARM

POI30 / 31

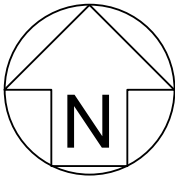
SPA LocationHAZEL'S COTTAGE BENDS

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing TitleN149 BLADE & TOWER

Rev	-	Description	-	Drn	-	App	-	Date	-
Drawn	AD	Approved	GB	Date	20/04/2026				
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT							
Revision	00								
Scale	1:1_2 @ A3								
Drawing No.		10111065 - PF - SPA - 24							



Oversail and over-run into third party land. Fence to be relocated and load bearing surface installed.

Hazels Cottage

Dalnaspidal

Oversail into third party land. Fence to be relocated.

New track and water crossing to be provided to suit turbine supplier standards.

Oversail and over-run into third party land. Fence to be relocated.

Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

Drawing Title

N149 BLADE & TOWER

POI

30 / 31

SPA Location

HAZEL'S COTTAGE BENDS

Notes

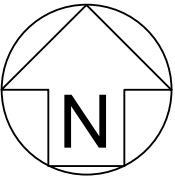
1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00					
Scale	Custom@ A3					
Drawing No.						
10111065 - PF - SPA - 24A						

Blade



Tower



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client

SSE RENEWABLES

Project

TANGY IV WIND FARM

POI

32

SPA Location

BEND NORTH OF HAZEL'S COTTAGE

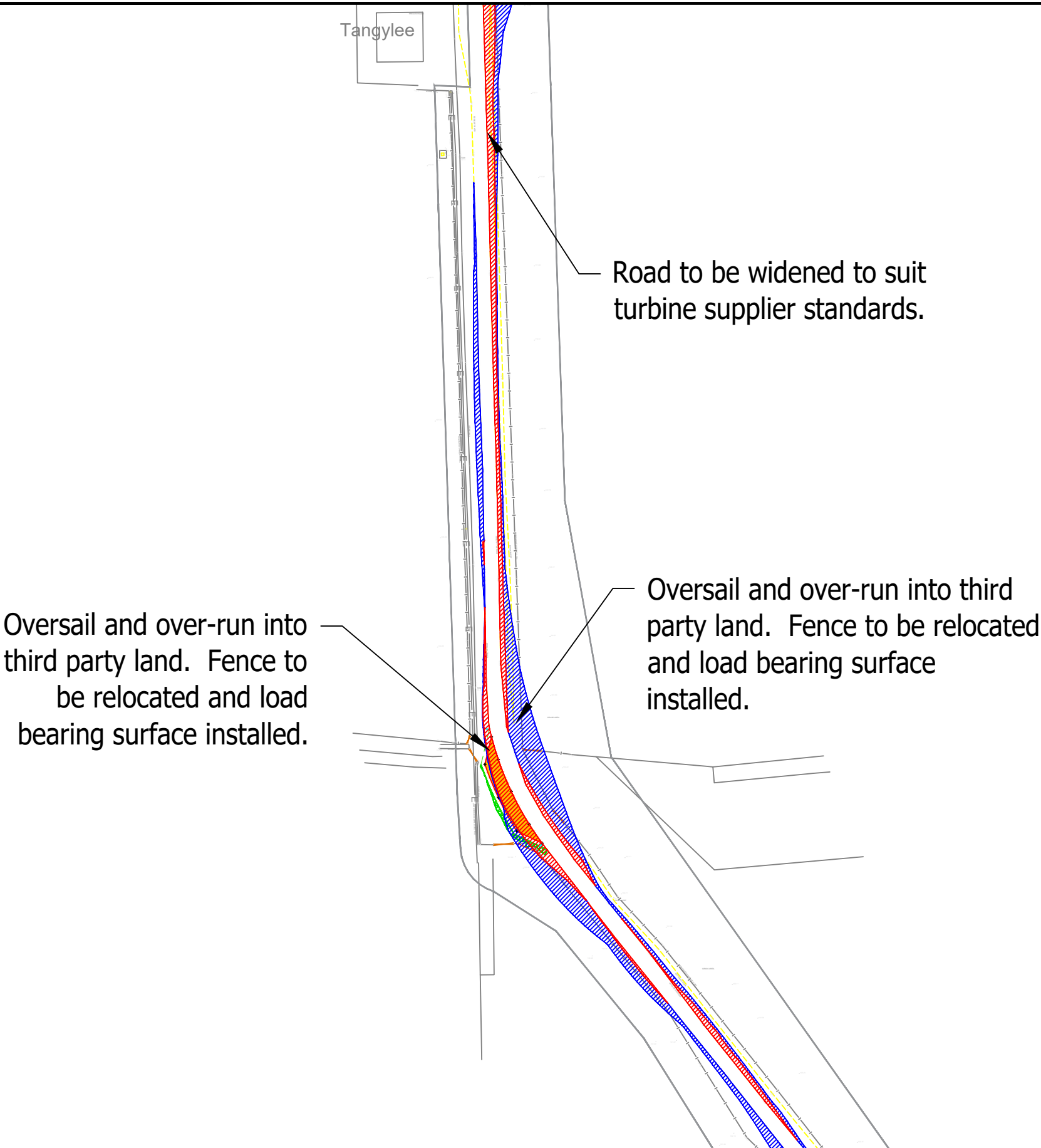
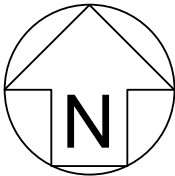
Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing Title

N149 BLADE & TOWER

-	-	-	-	-		
Rev	Description			Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026		
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT			
Revision	00					
Scale	Custom@ A3					
Drawing No.						
10111065 - PF - SPA - 25						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

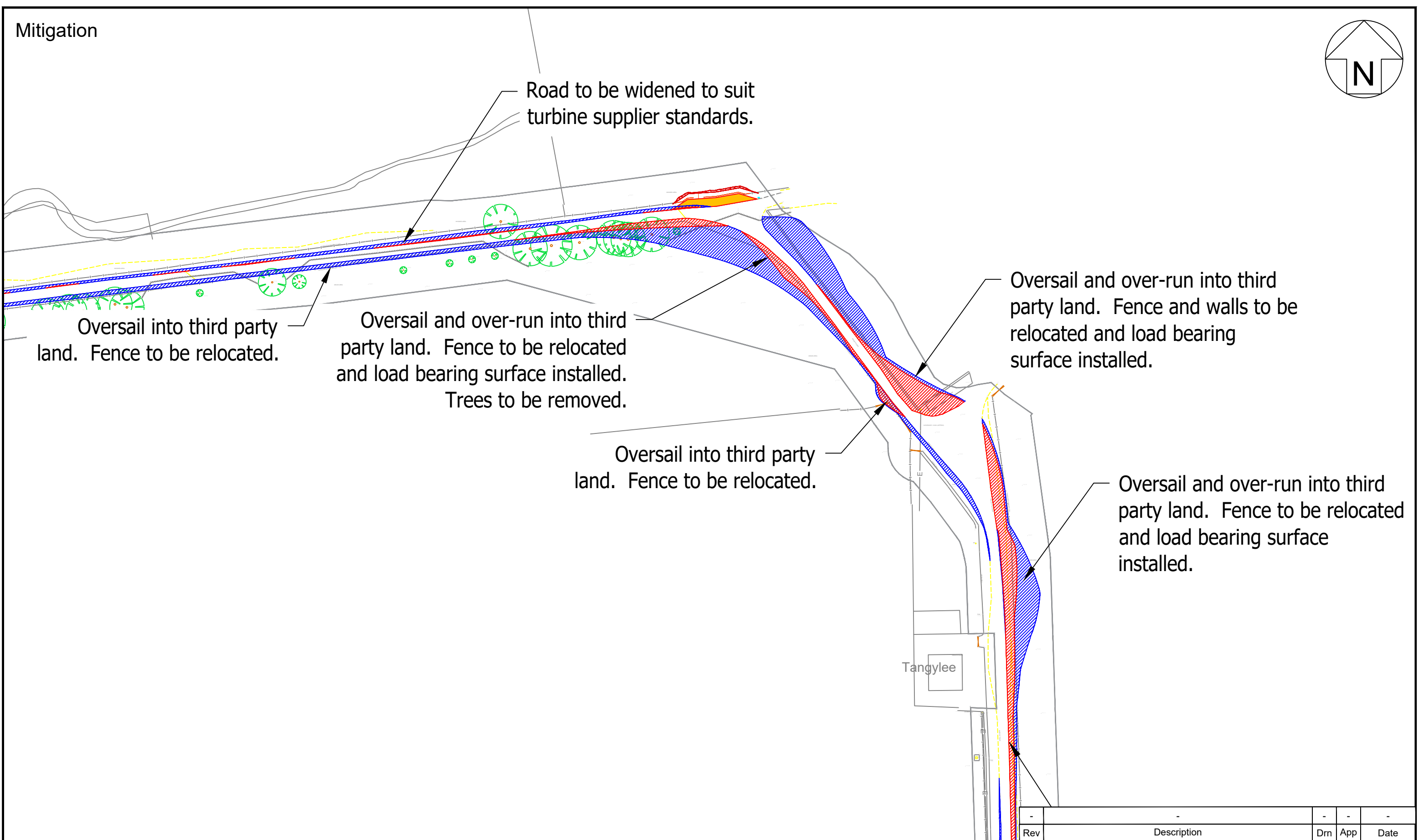
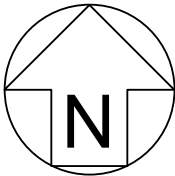
Client
SSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
32	BEND NORTH OF HAZEL'S COTTAGE		
Notes			
1. All mitigation is subject to confirmation through a test run.			
2. This is not a construction drawing and is intended for illustration purposes only.			
3. Do not scale from this drawing.			

-	-	-	-	-
Rev	Description			Date
Drawn	AD	Approved	GB	20/04/2026
Status	Draft	Key		
Revision	00	Wheel SPA		
Scale	Custom@ A3	Body SPA		
Drawing No.		10111065 - PF - SPA - 25A		



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Drawing Title		Drawn		Approved		Date		
	TANGY IV WIND FARM		N149 BLADE & TOWER		AD		GB		20/04/2026		
	POI	SPA Location				Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT		
	33 - 35										
	Notes										
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.				Drawing No.		10111065 - PF - SPA - 26					
Client		SSE RENEWABLES									



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD		Approved GB		Date 20/04/2026	
	POI 33 - 35	SPA Location TANGYLEE BENDS			Status Draft	Key		Wheel SPA  Overrun 		
					Revision 00			Body SPA  Oversail 		
					Scale Custom @ A3			Load SPA  DoT 		
Client SSE RENEWABLES	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Drawing No. 10111065 - PF - SPA - 26A						



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

ProjectTANGY IV WIND FARM

POI36

SPA LocationTANGY BURN BEND

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing TitleN149 BLADE & TOWER

Rev	-	Description	-	Drn	-	App	-	Date	-
Drawn	AD	Approved	GB	Date20/04/2026					
Status	Draft	Key		Wheel SPA Body SPA Load SPA Indicative					
Revision	00			Overrun Oversail DoT					
Scale	Custom@ A3								
Drawing No.		10111065 - PF - SPA - 27							

©Pell Frischmann Consultants



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

ProjectTANGY IV WIND FARM

POI37 - 39

SPA LocationTANGYBURN BENDS

Notes

1. All mitigation is subject to confirmation through a test run.
2. This is not a construction drawing and is intended for illustration purposes only.
3. Do not scale from this drawing.

Drawing TitleN149 BLADE & TOWER

Rev

Description

Drn

App

Date

DrawnAD

ApprovedGB

Date20/04/2026

Status

Draft

Key

Revision00

ScaleCustom@ A3

Wheel SPA

Body SPA

Load SPA

Indicative

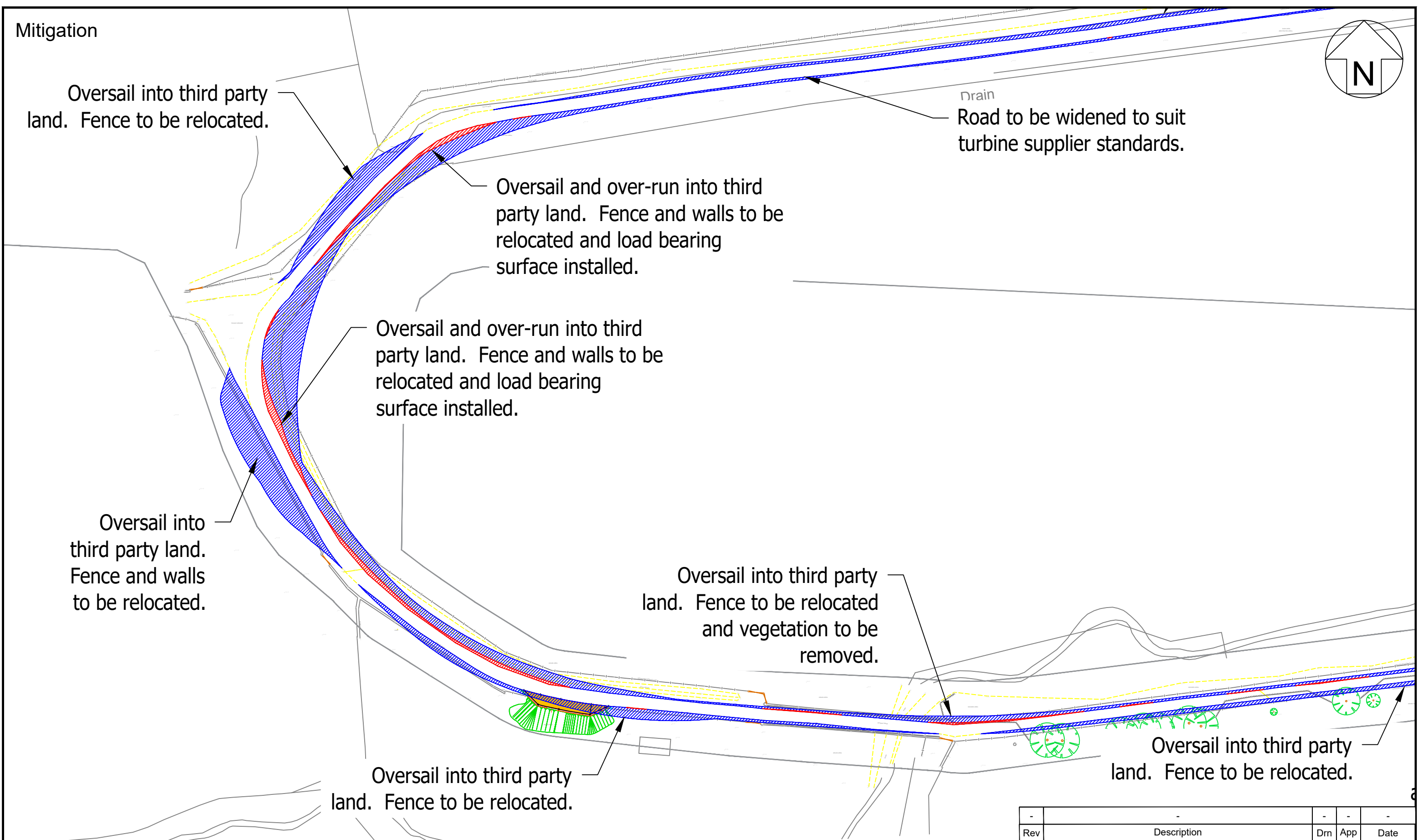
Overrun

Oversail

DoT

Drawing No.10111065 - PF - SPA - 27A

©Pell Frischmann Consultants



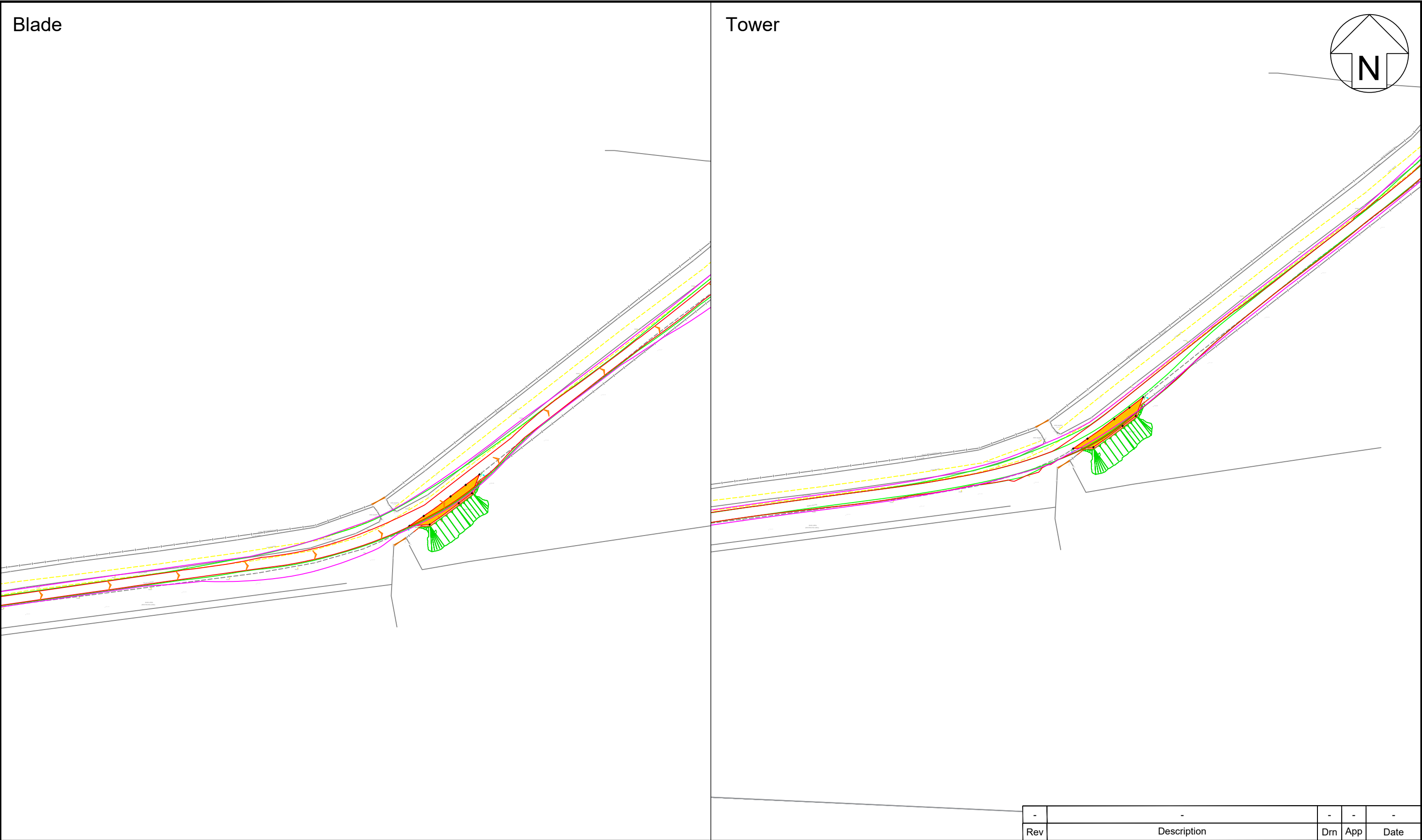
Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

Client **SSE RENEWABLES**

Project		TANGY IV WIND FARM		Drawing Title		N149 BLADE & TOWER	
POI		SPA Location		TANGYBURN BENDS			
36 - 39							
Notes							
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.							

-	-			-	-	-	
Rev	Description				Drn	App	Date
Drawn		Approved		Date			
AD		GB		20/04/2026			
Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT					
Revision	00						
Scale	Custom@ A3						
Drawing No.							
10111065 - PF - SPA - 27B							

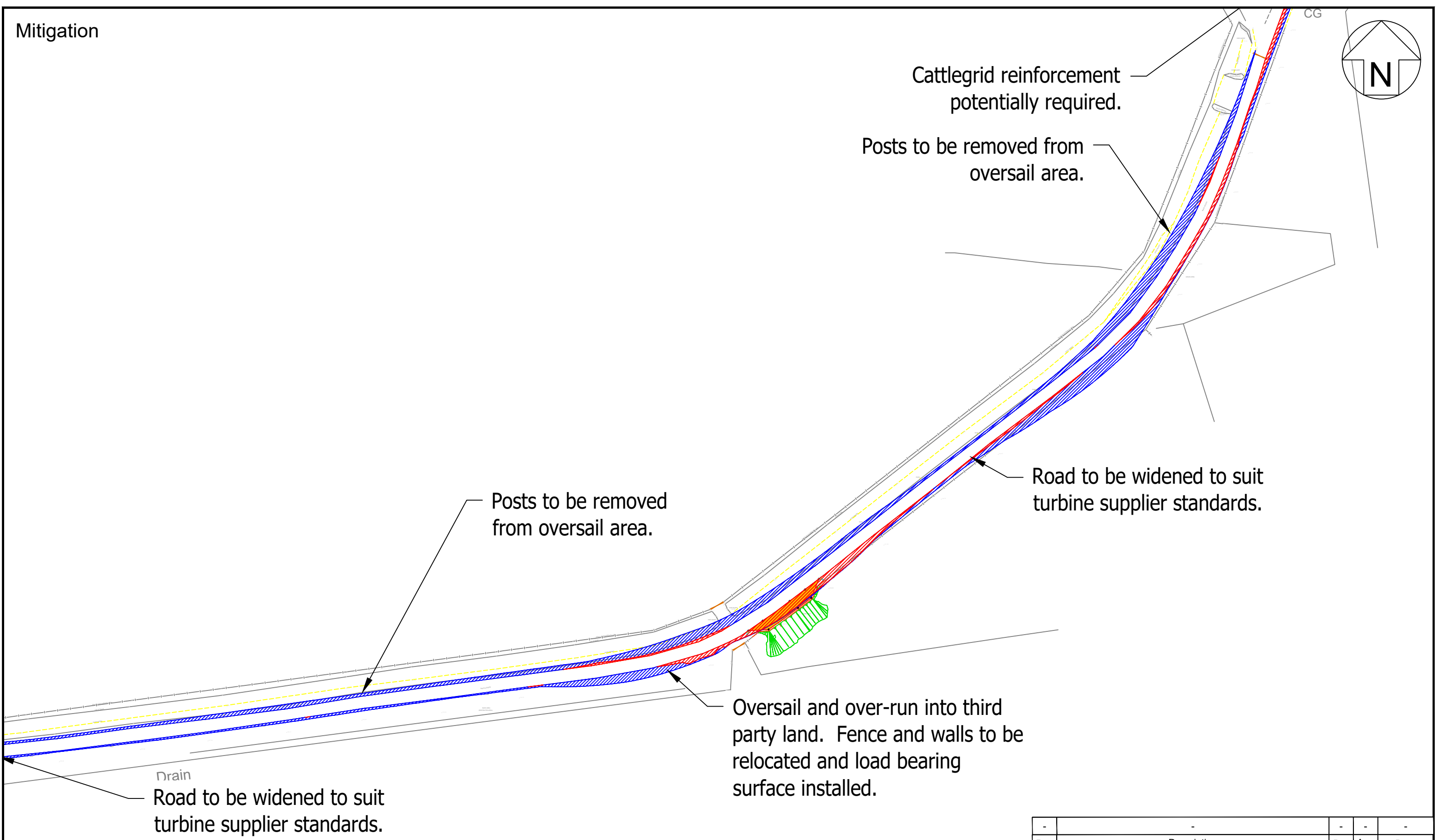


Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 40	SPA Location BEND 1 TO SOUTH OF TANGY WIND FARM			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
	Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			Revision	00			
				Scale	Custom@ A3			
				Client SSE RENEWABLES		Drawing No. 10111065 - PF - SPA - 28		



Pell Frischmann 93 GEORGE STREET, EDINBURGH EH2 3ES Telephone +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project TANGY IV WIND FARM		Drawing Title N149 BLADE & TOWER		Drawn AD	Approved GB	Date 20/04/2026	
	POI 41	SPA Location BEND 2 SOUTH OF TANGY WIND FARM			Status	Draft	Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT	
					Revision	00		
					Scale	Custom@ A3		
					Drawing No. 10111065 - PF - SPA - 28A			
Notes 1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.								
Client SSE RENEWABLES								

Mitigation



Pell Frischmann

93 GEORGE STREET, EDINBURGH EH2 3ES
Telephone +44 (0)131 240 1270
Email: pfedinburgh@pellfrischmann.com
www.pellfrischmann.com

ClientSSE RENEWABLES

Project		Drawing Title	
TANGY IV WIND FARM		N149 BLADE & TOWER	
POI	SPA Location		
40 - 41	BENDS SOUTH OF TANGY WIND FARM		
Notes			
1. All mitigation is subject to confirmation through a test run. 2. This is not a construction drawing and is intended for illustration purposes only. 3. Do not scale from this drawing.			

-	-				-	-	-
Rev	Description				Drn	App	Date
Drawn AD		Approved GB		Date 20/04/2026			
Status	Draft		Key Wheel SPA Body SPA Load SPA Indicative Overrun Oversail DoT				
Revision	00						
Scale	Custom@ A3						
Drawing No.				10111065 - PF - SPA - 28B			

From: Irene.Cartin [REDACTED] On Behalf Of AbnormalLoads [REDACTED]

Sent: 22 April 2026 07:30

To: Gordon Buchan

Subject: RE: Tangy IV Wind Farm

Importance: High

Good Morning Gordon,

Thank you for your email. Transport Scotland do not make comments on anything to do with proposed Wind Farms. This would be down to the Operating Companies to make these comments for Transport Scotland.

I note that you have included Bear Scotland in this email and they will be in touch in due course.

Kind Regards

Irene Cartin

Network Administrator

Roads Delivery

Transport Scotland, 177 Bothwell Street, Glasgow, G2 7ER