

Pell Frischmann

Mynydd Fforch Dwm Wind Farm

Abnormal Indivisible Load Route Survey

October 2021

104332

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.		Document1				
File Path		Document1				
Rev	Suit	Description	Date	Originator	Checker	Approver
01		Draft	30-Mar-21	T Lockett	G Buchan	G Buchan
02		Interim	13/10/2021	T Lockett	G Buchan	G Buchan
03		Final	25/05/2023	T Lockett	G Buchan	G Buchan
Ref. reference. Rev revision. Suit suitability.						

Prepared for

REG Power Management

Unit 3B
Damery Lane
Woodford
Berkley
Gloucestershire
GL13 9JR

Prepared by

Pell Frischmann

93 George Street
Edinburgh
EH2 3ES



Pell Frischmann

Contents

1	Introduction.....	3
1.1	Purpose of the Report	3
2	Site Background.....	4
2.1	Site Location.....	4
2.2	Candidate Turbine	4
2.3	Proposed Delivery Equipment.....	5
3	Access Route Review.....	7
3.1	Port of Entry	7
3.2	Proposed Access Route	8
3.3	Route Constraints	9
3.4	Swept Path Assessment Results and Summary.....	18
3.5	Weight Review.....	18
3.6	Land Ownership.....	19
3.7	Summary Issues.....	19
4	Summary.....	20
4.1	Summary of Access Review	20
4.2	Further Actions	20

Figures

Figure 1: Site Location Plan.....	4
Figure 2: Blade Lifter Trailer	5
Figure 3: Tower Trailer.....	6
Figure 4: Swansea Port Layout.....	7
Figure 5: Proposed Access Route.....	8

Tables

Table 1: Vestas V150 119m HH Tower (a007-5487) – Turbine Size Summary.....	4
Table 2: Nordex N149 125m HH Tower – Turbine Size Summary	5
Table 3: Route Option 3 Constraint Points and Details	9

Appendices

Appendix A Points of Interest	
Appendix B Swept Path Assessments	

1 Introduction

1.1 Purpose of the Report

Pell Frischmann (PF) has been commissioned by REG Power Management (REG) to undertake a route access review of potential delivery routes for wind turbine Abnormal Indivisible Loads (AIL) associated with the construction and development of Mynydd Fforch Dwm Wind Farm, located to the south west of Hirwaun, Mid Glamorgan.

The Route Survey Report (RSR) has been prepared to help inform REG on the likely 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 that remedial works, either in the form of physical works or as traffic management interventions will be required to accommodate the predicted loads.

The detailed assessment and subsequent designs of any remedial works are beyond the agreed scope of works between PF and REG 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. 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 has been made in accordance, 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 south west of Hirwaun, Mid Glamorgan. Figure 1 illustrates the general site location.

Figure 1: Site Location Plan



2.2 Candidate Turbine

REG have indicated that they wish to consider the worst case components from a Vestas V150, or Nordex N149 at a tip height of 200m for the site. Due to restrictions on the route the Vestas a007-5487 119m hub height (HH) tower has been assessed as detailed below.

The details of the components have been provided by the turbine manufacturers and are detailed in Tables 1 & 2 below.

Table 1: Vestas V150 119m HH Tower (a007-5487) – Turbine Size Summary

Component	Length (m)	Width (m)	Height / Min Diameter (m)	Weight (t)
Blade	73.700	4.064	3.124	17.240
Base	9.790	(4.45) 4.15	4.436	71.000
Mid Tower 1	12.040	4.436	4.448	66.500
Mid Tower 2	15.400	4.448	4.440	68.500
Mid Tower 3	14.840	4.440	4.433	55.000
Mid Tower 4	19.320	4.433	4.423	56.000
Mid Tower 5	19.880	4.423	4.168	47.000
Top Tower	25.000	4.168	4.008	52.500

Table 2: Nordex N149 125m HH Tower – Turbine Size Summary

Component	Length (m)	Width (m)	Height / Min Diameter (m)	Weight (t)
Blade	72.400	4.500	3.200	21.000
Base	11.510	4.300	4.300	76.500
Mid Tower 1	14.730	4.300	4.270	77.000
Mid Tower 2	18.180	4.280	4.270	71.100
Mid Tower 3	19.400	4.270	3.640	62.300
Mid Tower 4	27.000	3.640	3.620	65.800
Top Tower	31.380	3.620	3.260	53.600

The assessment has been based on the V150 Blade and V150 Mid Tower 5 combined with the flange from the base tower to provide a worst case component. It has been assumed that the Top tower from both turbine options can be carried using a step trailer and configured to pass under height restrictions.

2.3 Proposed Delivery Equipment

Due to the constrained nature of the route and the proximity to the port, it is proposed that blades will be carried using a Goldhofer blade lifting trailer for the entirety of the route. This trailer has the ability to lift blades up to a maximum angle of 60 degrees, lifting blades over potential constraints and shortening the length plan view. All overhead utilities and obstructions should be removed where the blade is carried in the raised position.

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

Figure 2: Blade Lifter Trailer



Figure 3: Tower Trailer



3 Access Route Review

3.1 Port of Entry

The proposed Port of Entry (POE) is Swansea. The port is the closest, suitable port to site and as such is in line with the Government's "Water Preferred" policy towards AIL movements.

The port has been used by renewables deliveries in the past for a number of wind farms, including Mynydd y Betws, Pen y Cymoedd and Brechfa.

The port has sufficient quay and storage space and is well located for the strategic trunk road network. The layout of the port is illustrated below in Figure 4.

Figure 4: Swansea Port Layout



3.2 Proposed Access Route

The proposed access route has been carefully considered with various options reviewed in detail. The most appropriate access option to site is detailed below:

- Loads would depart the port and access the A483 Fabian Way (Eastbound) using a contraflow manoeuvre;
- Loads would proceed eastbound and would join the M4 at Junction 42. They would then continue to Junction 43, where they would depart the motorway and would then join the A465 (Northbound);
- Loads would utilise a proposed cut through of the safety barriers on the A465 to cross onto oncoming traffic lanes before using the A474 onslip to depart the A465;
- Loads would continue east on the A474 before turning left onto the B4434;
- Loads would turn right onto the B4287 travelling east;
- At the village of Efail-fach loads will turn left onto the Ton-Mawr Road; and
- Loads will turn right onto the Fforch-dwm Road and continue to the proposed site entrance. Loads for the western portion of the site will access from Ton-Mawr Road via a new access track to the turbine installations.

The proposed access route is illustrated in Figure 5.

Figure 5: Proposed Access Route



The access route has been reviewed and constraint points identified. These are summarised in the following section.

3.3 Route Constraints

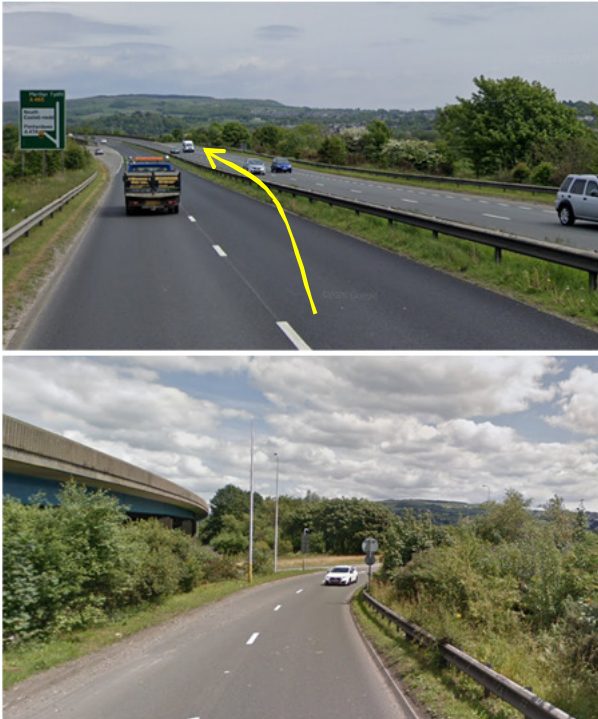
The constraints noted on the route are detailed in Table 3. These cover all constraints from the port access gate through to the proposed site access junction. Plans illustrating the location of the constraints are provided in Appendix A.

It has been assumed that the blade will be carried in the raised position at all constraint locations with the exception of POI 25 where it will be lowered to travel under a bridge.

All overhead utilities and obstructions should be removed where the blade is carried in the raised position.

Table 3: Route Option 3 Constraint Points and Details

POI	Constraint	Details
1, 2	Baldwin Crescent / A483 Junction 	Loads will exit Swansea Port and will utilise the A483 slip road. They will turn right onto the A483 via the existing safety barrier cut through. Escorts will ensure that the offslip is closed to all traffic during movements. Loads will oversail the southern verge through the initial junction. Overhead utilities should be removed or placed underground. Swept path assessment SK01 is included in Appendix B.
3	Fford Amazon Roundabout 	Loads will take the first exit at the roundabout heading north. The blade will be carried in the raised position. No mitigation measures are required however loads will occupy the entire carriageway. Swept path assessment SK02 is included in Appendix B.

POI	Constraint	Details
4	A48 / A483 Junction 	Loads will take the first exit at the roundabout heading north. The blade should be carried lowered on approach to the junction in order to safely pass under the M4 overbridge and powerlines. The blade will be carried in the raised position once these obstacles have been passed. No mitigation measures are required however loads will occupy the entire carriageway. Swept path assessment SK03 is included in Appendix B.
5	Llandarcy Interchange 	Loads will take the third exit at the roundabout heading north. The blade will be carried in the raised position. Loads will oversail the eastern verge of the approach road however no mitigation is required. Loads will occupy the entire carriageway through the roundabout. Swept path assessment SK04 is included in Appendix B.
6	A465 Central Reservation Crossing 	The blade will not be able to be carried in the raised position to utilise the roundabout and pass under the A465 bridge. It is proposed to create a 'cut through' of the central reserve on approach to the interchange to allow loads to utilise the onslip to leave the A465. The safety barrier will need to be removed from this section and a load bearing surface laid. Traffic will need to be held in advance of the onslip to allow loads to safely complete the manoeuvre. The blade will be carried in the raised position through the section. Swept path assessment SK05 is included in Appendix B.

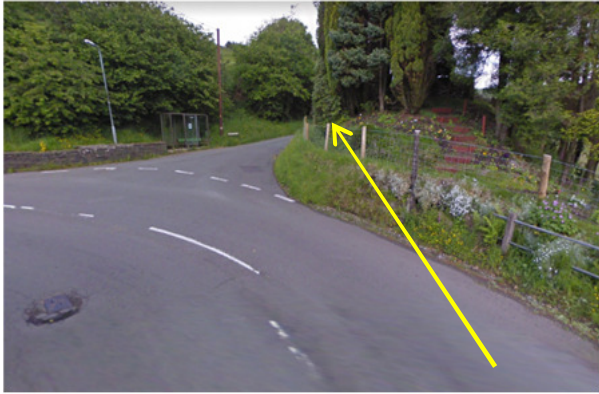
POI	Constraint	Details
7	A465 / A474 Roundabout 	Loads will contra flow through the roundabout and turn right onto the A474. All traffic should be held in advance of the A474 turning. Loads will oversail both verges of the onslip where one road sign should be removed. Loads will oversail the south eastern edge of the roundabout island where the traffic sign will be oversailed. Loads will overrun and oversail the A474 splitter island where a load bearing surface should be laid and one lighting column and one tree should be removed. Swept path assessment SK06 is included in Appendix B.
8	A74 Alford Road / B4434 Roundabout 	Loads will turn left onto the B4434 at the roundabout. The blade will be carried in the raised position through the junction. Loads will oversail the northern footway and the southern safety barrier. Loads will overrun the traffic island where a load bearing surface should be laid and two bollards and one road sign should be removed. Loads will turn left at the following roundabout. The blade tip will oversail the north eastern edge of the roundabout. The trees should be trimmed. Loads will oversail the inside of the left move where the pedestrian guardrail and traffic sign should be removed. The trees should be trimmed. The blade tip will oversail the exit arm splitter island and street furniture. Loads will overrun and oversail the south eastern footway on exit from the roundabout where a load bearing surface should be laid. Swept path assessment SK07 is included in Appendix B.

POI	Constraint	Details
9	B4434 / B4287 Junction 	Loads will turn right at the junction onto the B4287. The blade will be carried in the raised position and all overhead utilities should be removed. Loads will overrun and oversail the north western footway and oversail the south eastern footway on approach to the junction. A load bearing surface should be laid and the blade tip will oversail the street furniture. Loads will overrun and oversail the north of the junction where a load bearing surface should be laid and existing utilities should be protected. Walls, fences and trees should be removed along with one signal pole, one lighting column and three traffic signs. Loads will overrun and oversail the footways on the inside of the right turn where a load bearing surface should be laid and a traffic sign should be removed. It is strongly recommended that the swept path assessment is repeated on a topographical survey due to the constrained nature of the turn. Swept path assessment SK08 is included in Appendix B.
10	B4287 / Beechwood Avenue Roundabout 	Loads will continue straight through the mini roundabout. The traffic island on approach and exit from the junction should be cleared of street furniture to allow oversail.

POI	Constraint	Details
11	B4287 Right Bend at Rookwood Close 	Loads will continue east on the B4287. The blade will be carried in the raised position to negotiate the bend. Loads will oversail both footways through the bend with tree trimming required to the north east. Swept path assessment SK09 is included in Appendix B.
12	B4287 Cwm Aber-nant 	Loads will continue east on the B4267 at Cwm Aber-nant. Loads will occupy the entire carriageway through the bends section. All overhead utilities and obstructions should be removed as the blade will be carried in the raised position. Swept path assessment SK10 is included in Appendix B.
13	B4287 Cwm Aber-nant 	Loads will continue east on the B4287. It is recommended that a topographical survey is completed and the swept path repeated to confirm the proposed mitigation due to lack of detail in the OS base mapping. Loads will oversail both verges throughout the section and vegetation should be trimmed. A topographical survey should be used to confirm whether lighting columns and traffic signs need to be removed. Swept path assessment SK11 is included in Appendix B.

POI	Constraint	Details
14	B4287 / Ton Mawr Road 	Loads will depart the B4287 and turn left onto Tan Mawr Road. It is recommended that a topographical survey is completed and the swept path assessment repeated. The blade tip will be carried in the raised position and all overhead utilities should be removed. The tower section should be raised in the clamp adaptors to allow maximum clearances for oversail. Loads will overrun the footway and oversail to the south east of the road on approach to the junction. A load bearing surface should be laid and the trees should be trimmed. Loads will overrun the footway and oversail on the inside of the left turn where a load bearing surface should be laid and existing utilities should be protected. One traffic sign, a section of pedestrian guardrail, one junction box, one utility pole and one bus stop should be removed. The ground clearance for oversail of the bridge parapet should be confirmed on the topographical base or during the test run. It may be necessary to lower the parapet. Swept path assessment SK12 is included in Appendix B.
15	Ton Mawr Road North of Efail-fach 	Loads will continue north on Tan Mawr Road. The blade is carried raised and loads will oversail both footways through the section. Swept path assessment SK13 is included in Appendix B.

POI	Constraint	Details
16	Ton Mawr Road North of Efail-fach 	Loads will continue north east on Ton Mawr Road. Loads will oversail both verges through the section with the blade in the raised position. The south eastern verge bank should be reprofiled to allow oversail and a tree should be removed. Swept path assessment SK14 is included in Appendix B.
17	Ton Mawr Road South of Tonmawr 	Loads will cross the bridge over the Pelenna River with the blade in the raised position. Overhead utilities should be removed. Loads will overrun and oversail the pedestrian walkway of the bridge where a load bearing surface should be laid and one traffic sign and three traffic bollards should be removed. Loads will oversail the north western verge on the outside of the following right bend. Swept path assessment SK15 is included in Appendix B.

POI	Constraint	Details
18	Ton Mawr Road / Fforch-dwm Road 	Loads will turn right at the junction and continue onto the Fforch-dwm Road. Blade loads will be raised and overhead utilities should be removed. Loads will oversail the verge on the inside of the right bend on approach to the junction. Loads will overrun and oversail the inside of the right bend where the embankment and a stone wall will need to be removed and a load bearing surface laid. Trees, a fence, one lighting column and a barrier should be removed. It will be necessary to widen Fforch-dwm Road to a minimum of 4.5m along its length to the proposed site entrance. The indicative widening has been provided for illustration only and mitigation beyond this line has been marked up. It is recommended that a topographical survey of the remaining route is completed and all mitigation is subject to detailed design due to the steep drop to the east of the road and rise to the west of the road. Swept path assessment SK16 is included in Appendix B. Loads for the western portion of the site will depart the public road at this location and will proceed to site via new and upgraded tracks. Details of the new junction are provided in the Transport Assessment.
19	Fforch-dwm Road Left Bend 	Loads will continue through the left bend on Fforch-dwm Road which will need to be widened. The blade in the raised position will oversail the verge on the outside of the bend. Overhead utilities should be removed. Loads will oversail the verge on the inside of the left bend. One utility pole and one tree should be removed. Swept path assessment SK17 is included in Appendix B.

POI	Constraint	Details
20, 21	Fforch-dwm Road Graig-ddu 	Loads will continue north through the section. The road will need to be widened and utility poles will need to be removed from the north western verge. Loads will oversail both verges throughout. Trees and vegetation should be removed. Swept path assessment SK18 is included in Appendix B.
22	Fforch-dwm Road Pelena House 	Loads will continue north through the left bend. Loads will oversail both verges throughout the section. Utility poles and a number of trees will need to be removed to enable the oversail to occur. All overhead utilities should be removed. Swept path assessment SK19 is included in Appendix B.

POI	Constraint	Details
23, 24	Fforch-dwm Road Proposed Site Entrance 	Loads will continue north before turning right over the existing bridge into the site. Loads will oversail both verges though the left bend on approach to the right turn. The road will need to be resurfaced and upgraded. Vegetation should be trimmed and the fence will be oversailed. Loads will then proceed using an upgraded private bridge and access track. Swept path assessment SK20 is included in Appendix B.

3.4 Swept Path Assessment Results and Summary

The detailed swept path drawings for the locations assessed are provided in Appendix B for review. The drawings in Appendix B illustrate tracking undertaken for the worst case loads at each location.

The colours illustrated on the swept paths are:

- Grey / Black – OS / Topographical Base Mapping;
- Green – Vehicle body outline (body swept path);
- Red – Tracked pathway of the wheels (wheel swept path); and
- Purple – The over-sail tracked path of the load where it encroaches outwith the trailer (load swept path).

Where mitigation works are required, the extents of over-run and over-sail areas are illustrated on the swept path drawings.

Please note that where assessments have been undertaken using Ordnance Survey (OS) base mapping, there can be errors in this data source.

Where provided by the client, topographical data has been utilised. Please note that PF cannot accept liability for errors on the data source, be that OS base mapping or client supplied data.

3.5 Weight Review

A weight review has not yet been completed as part of this study due to the project not being in the public domain at this time.

A review of the structures should be undertaken at a later stage to ensure that there are no significant weight restrictions the route.

3.6 Land Ownership

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

3.7 Summary Issues

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

- That any necessary topographical surveys are undertaken and the swept path results completed;
- 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 developer from spurious damage claims.

4 Summary

4.1 Summary of Access Review

PF has been commissioned by REG to prepare a desktop Route Survey Report to examine the issues associated with the transport of AIL turbine components to the development site from Swansea Port.

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

The access review has been based upon a Vestas V150 turbine and has been undertaken on the basis of a blade lifter trailer at the most constrained locations.

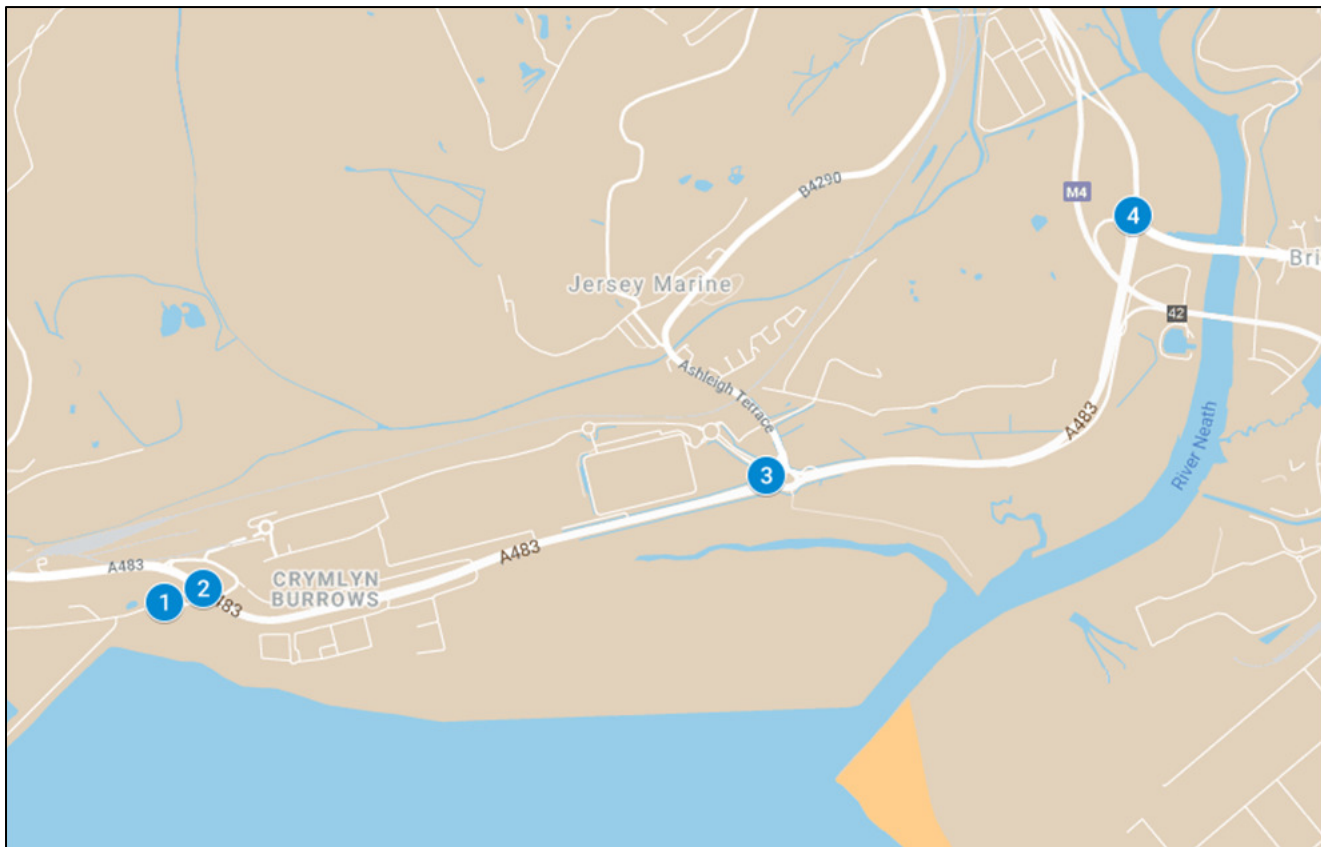
Four routes have been assessed from the Swansea Port to site. The access route has been assessed with the blade carried in the upright position due to the constrained nature of the route. The route will require upgrading of the Fforch Dwm Road and topographical surveys should be carried out and the swept path assessments repeated to confirm the mitigation.

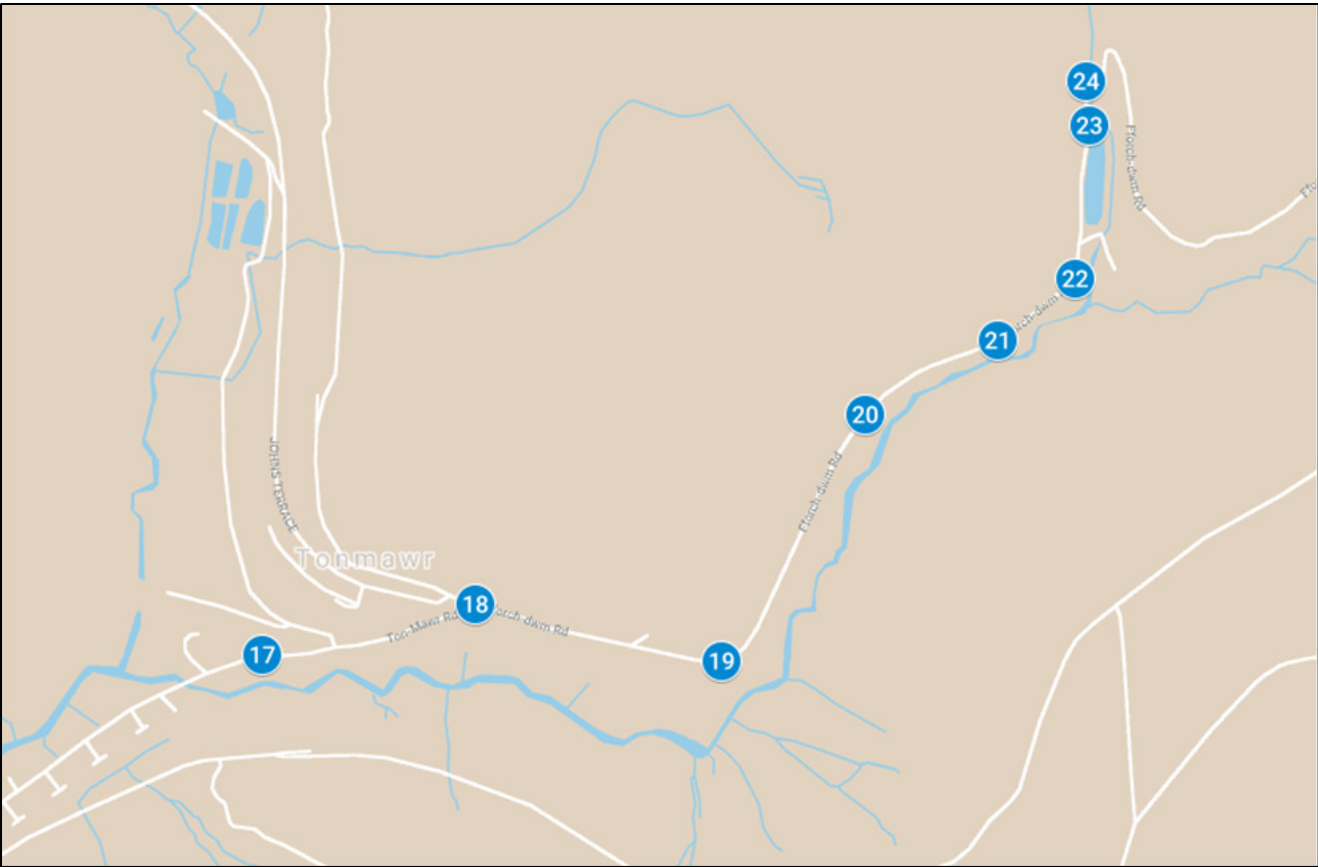
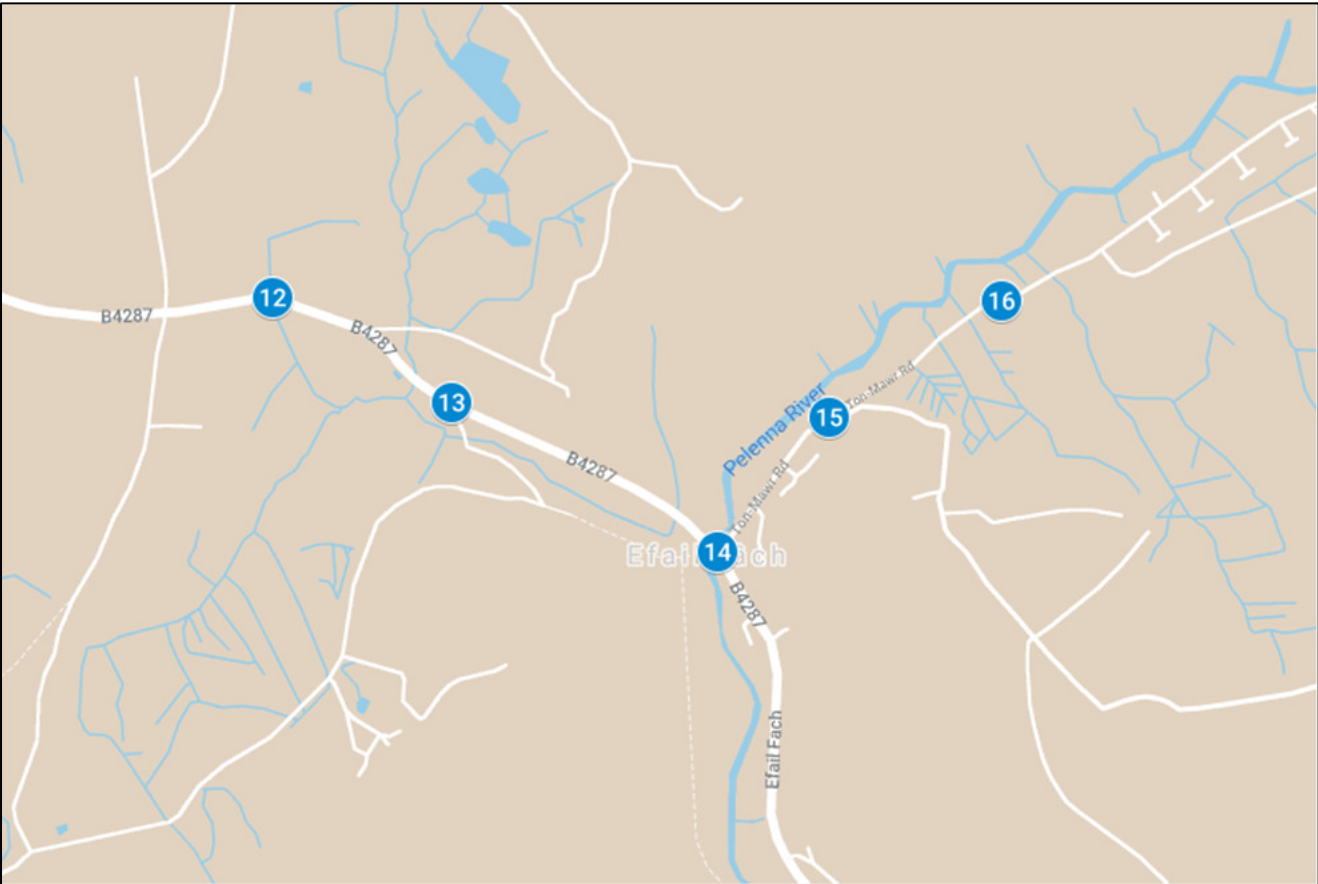
4.2 Further Actions

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

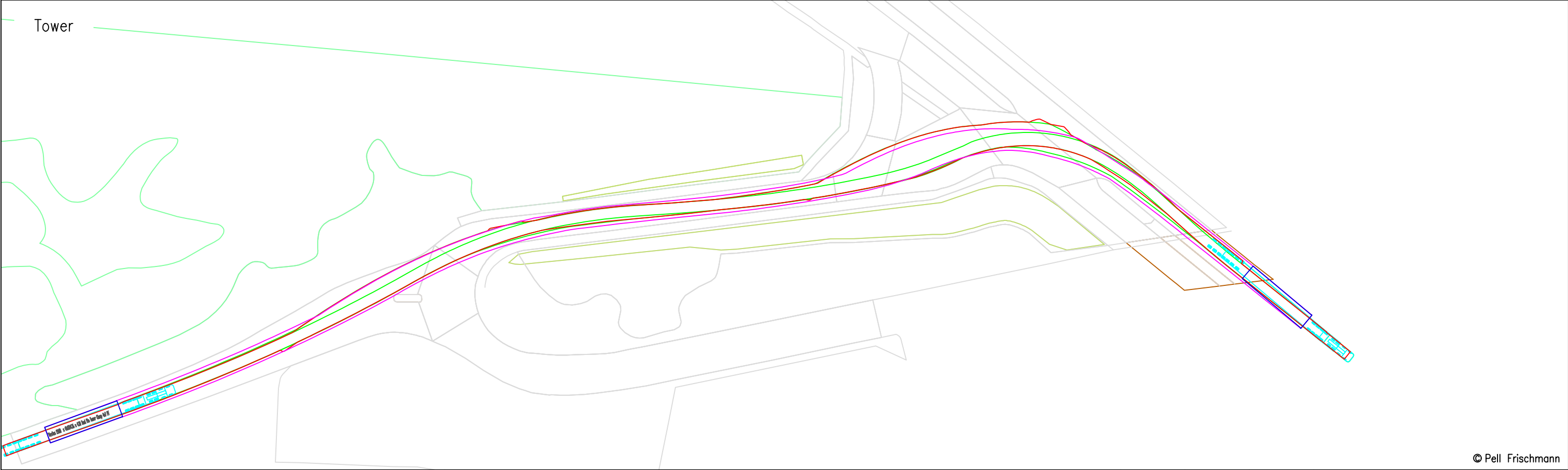
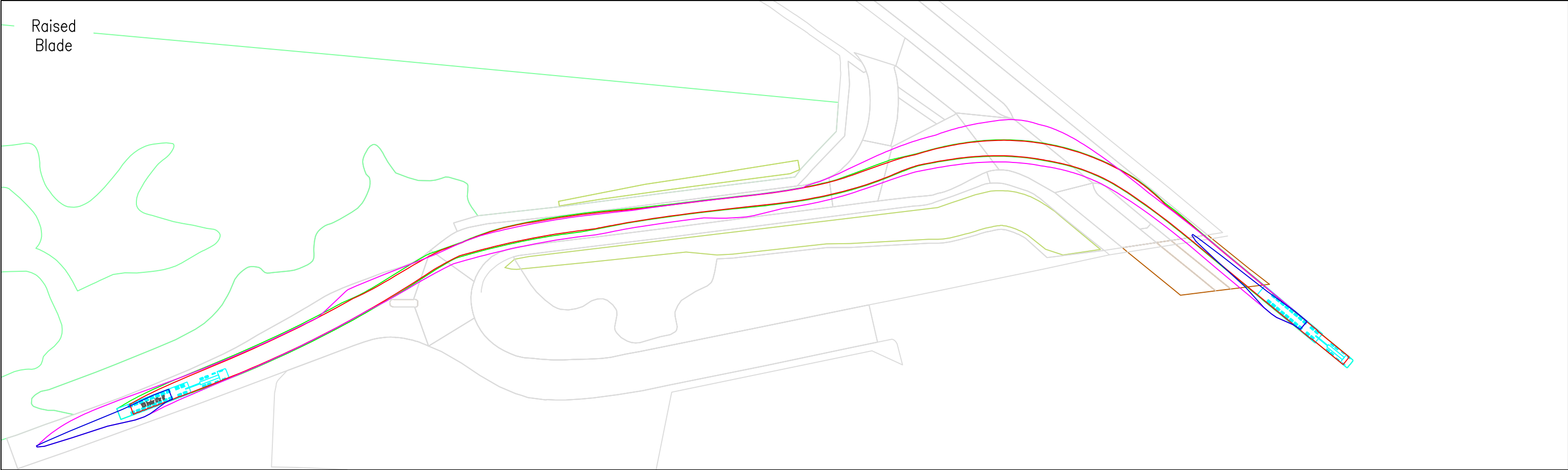
- Prepare detailed mitigation design proposals to help inform the land option / consultee discussions;
- Obtain the necessary land options;
- Undertake discussion with the affected utility providers and roads agencies;
- Obtain the necessary statutory licences to enable the mitigation measures; and
-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

Appendix A Points of Interest



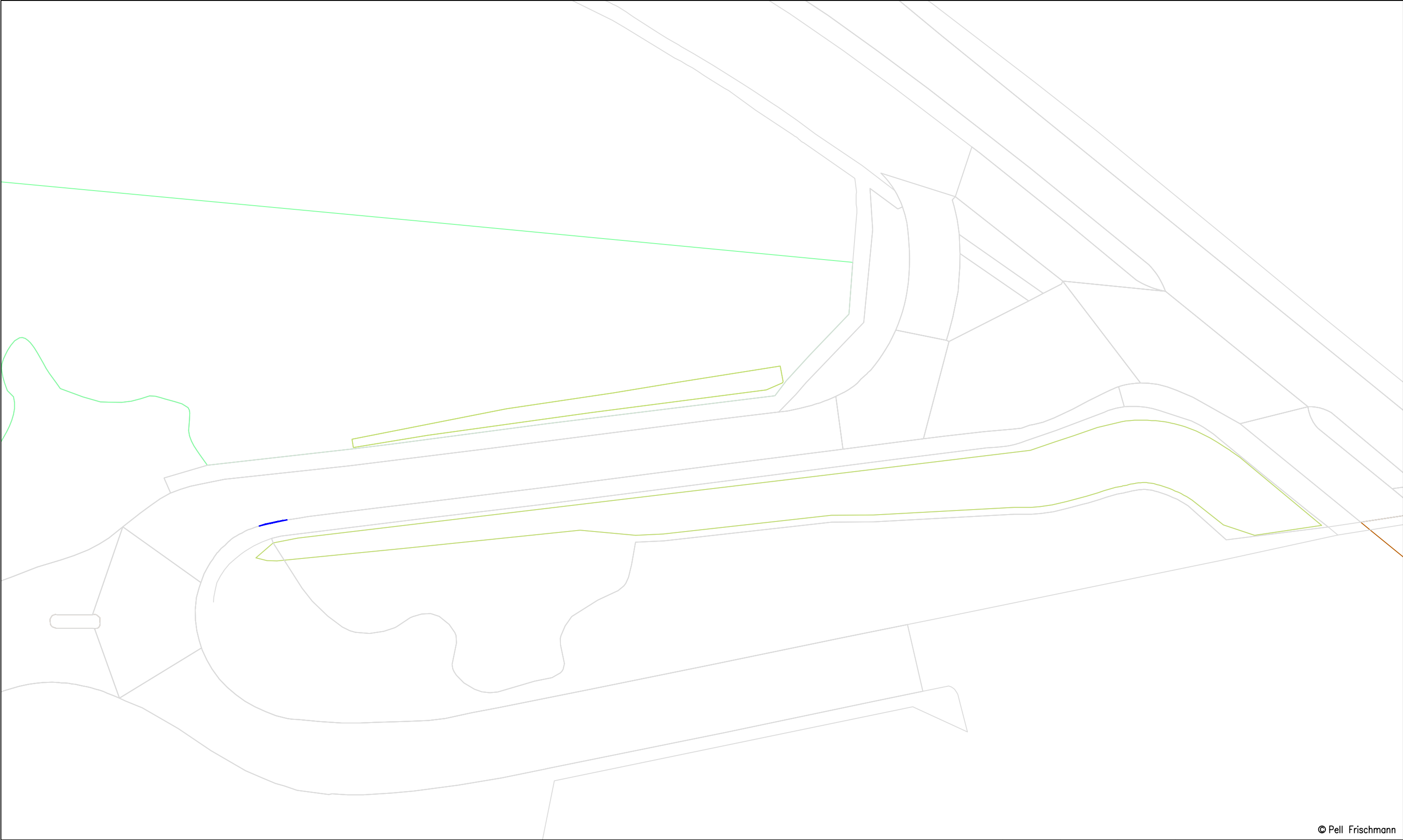


Appendix B Swept Path Assessments



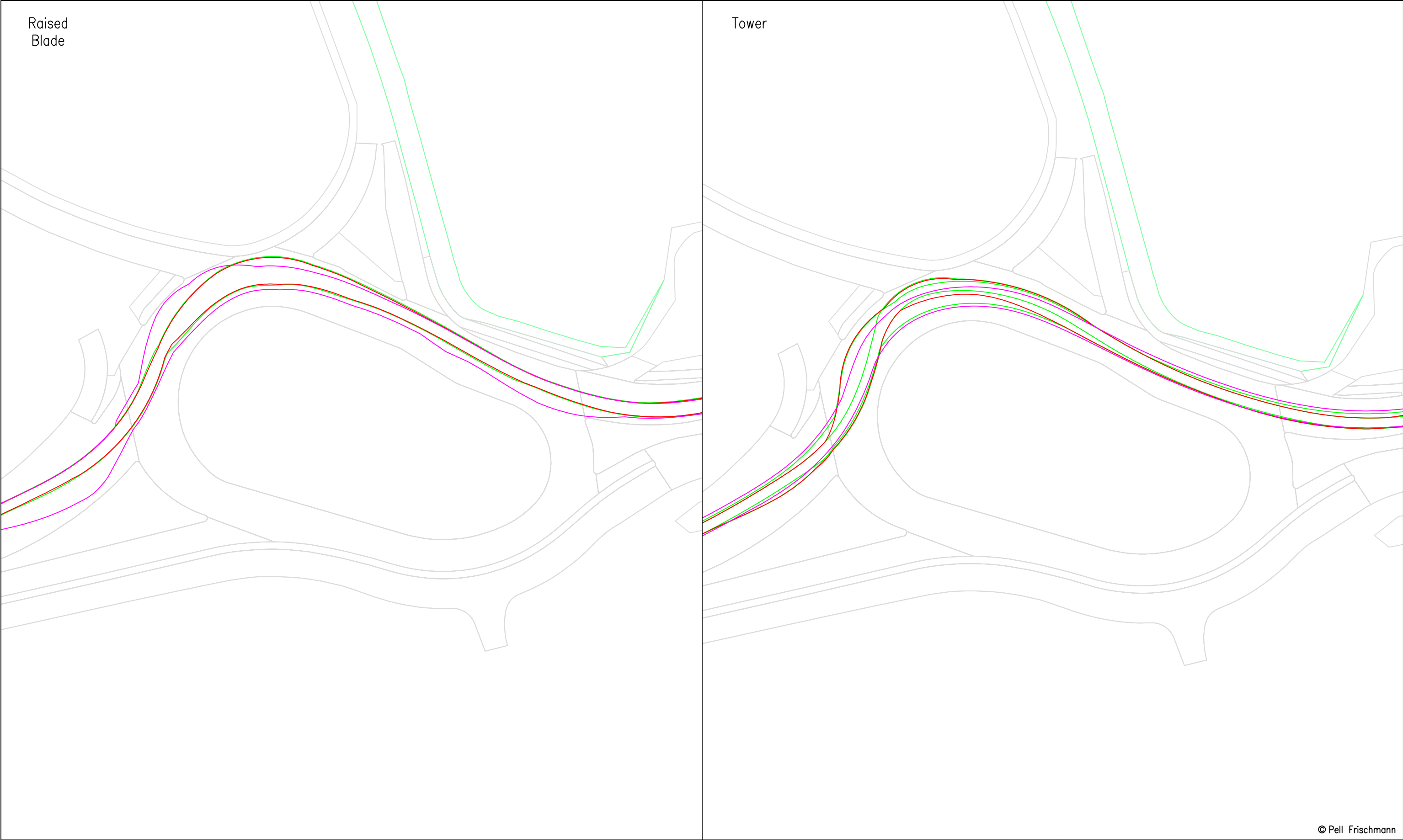
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
					Drawn	JS	28/11/2022	1:1000 @ A3			
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
					Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		1,2	Draft	
							Drawing No.		SK01	Notes:	Revision
Key		Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		Baldwin Crescent / A483 Junction		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale				
					Drawn	JS	28/11/2022	1:500 @ A3				
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg				
					Checked	GB	28/11/2022	Drawing Status				
Client	REG Power Management		Drawing Title		Point of Interest		1,2		Draft			
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		Baldwin Crescent / A483 Junction		Drawing No.		Notes:		Revision	
							SK01A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	



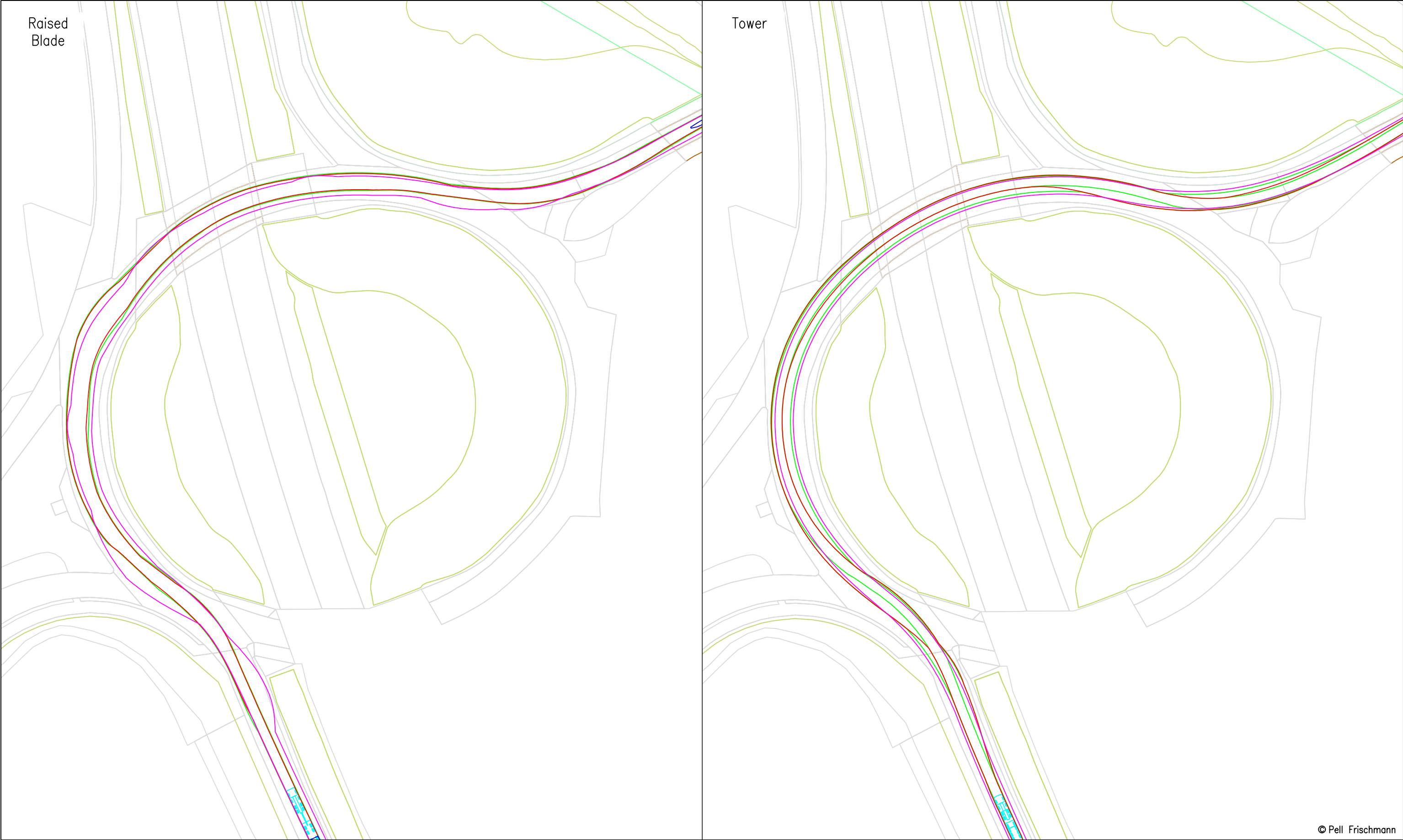
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
					Drawn	JS	28/11/2022	1:1000 @ A3		
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
					Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management		Drawing Title		Point of Interest		3		Draft	
Key	SPA Location		Vestas V150 Blade and Tower		Fford Amazon Roundabout		NO MITIGATION REQUIRED		Revision	
									XXX	
				</						



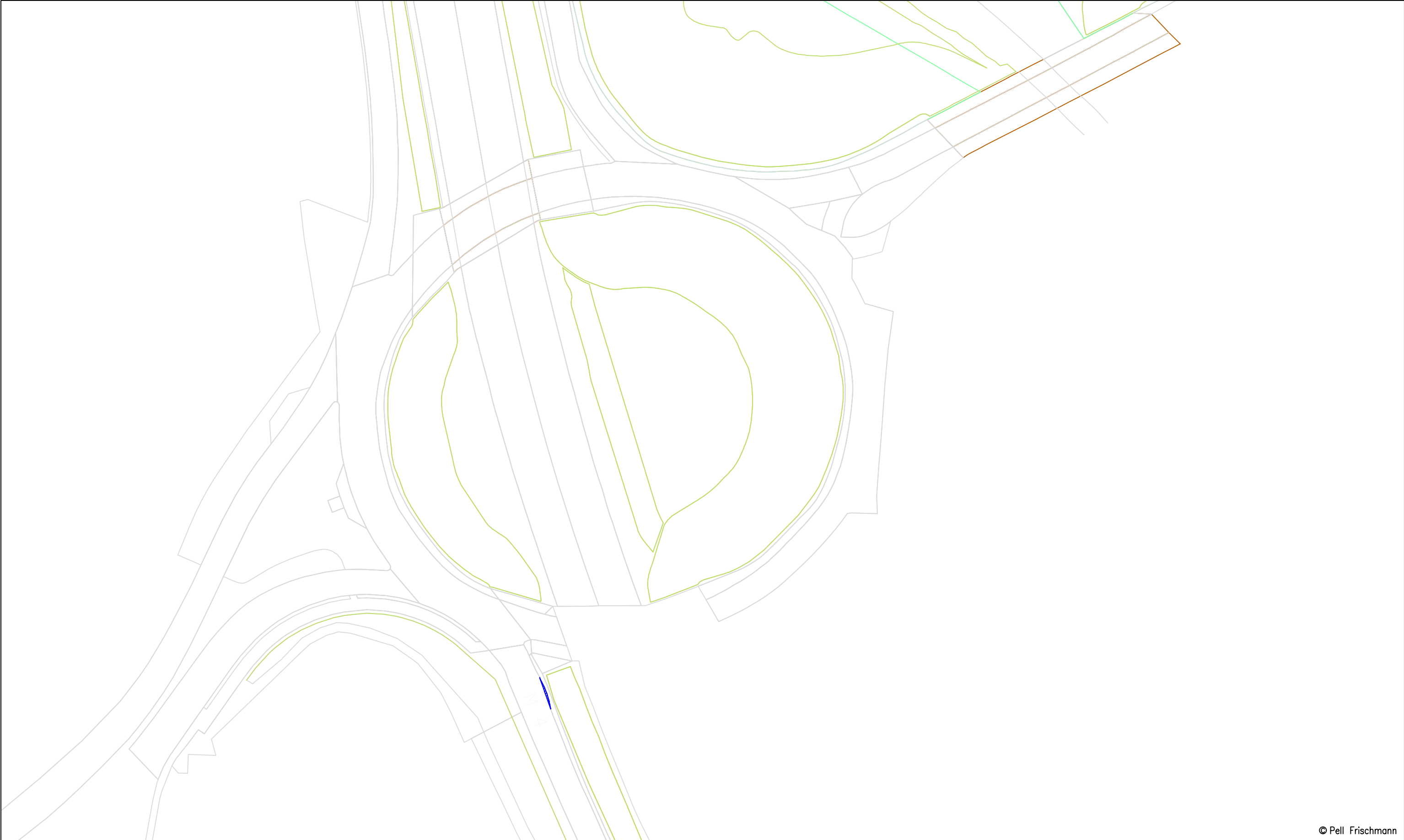
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
					Drawn	JS	28/11/2022	1:1000 @ A3		
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
					Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management		Drawing Title		Point of Interest		4		Draft	
Key	Wheel SPA Body SPA Load SPA Indicative		SPA Location		A48 / A483 Junction		NO MITIGATION REQUIRED		Revision	
									XXX	



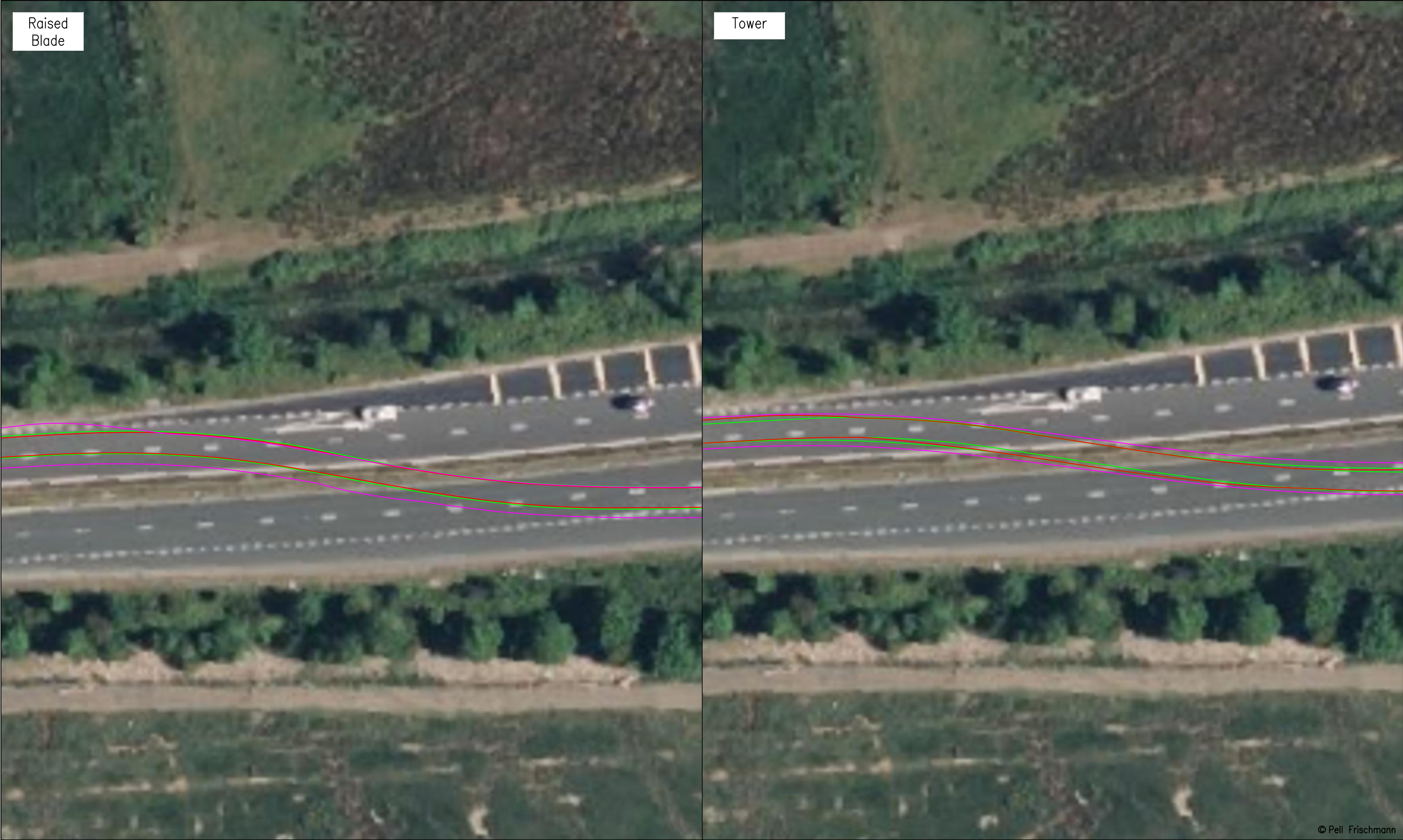
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
				Drawn	JS	28/11/2022	1:1000 @ A3		
				Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
				Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		5	Draft	
					Drawing No.	Notes:			Revision
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Llandarcy Interchange		SK04	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project Mynydd Fforch Dwm Wind Farm			Name	Date	Scale 1:1000 @ A3	
			Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg	
			Designed	TL	28/11/2022		
			Checked	GB	28/11/2022	Drawing Status Draft	
Client REG Power Management	Drawing Title Vestas V150 Blade and Tower		Point of Interest		5		
			Drawing No. SK04A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		Revision XXX	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location Llandarcy Interchange						



Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
				Drawn	JS	28/11/2022	1:500 @ A3			
				Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
				Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower	Point of Interest		6		Draft		
				Drawing No.	Notes:			Revision		
Key		SPA Location		SK05		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX	
Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		A465 Central Reservation Crossing								



Load bearing surface to be laid. Safety barrier to be removed. Oncoming vehicles to be held in advance of onslip.

© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
				Drawn	JS	28/11/2022	1:500 @ A3		
				Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
				Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		6	Draft	
					Drawing No.	Notes:			Revision
Key		SPA Location		SK05A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX
Wheel SPA		Body SPA		Load SPA		Indicative		Over-run	
								Over-sail	



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		1:1000 @ A3	
	Drawing Title		Vestas V150 Blade and Tower		Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg			
					Designed	TL	28/11/2022	Drawing Status			
					Checked	GB	28/11/2022	Draft			
Client		REG Power Management		Point of Interest		7					
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		A465 / A474 Roundabout		Drawing No.		Notes:		Revision	
						SK06		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	

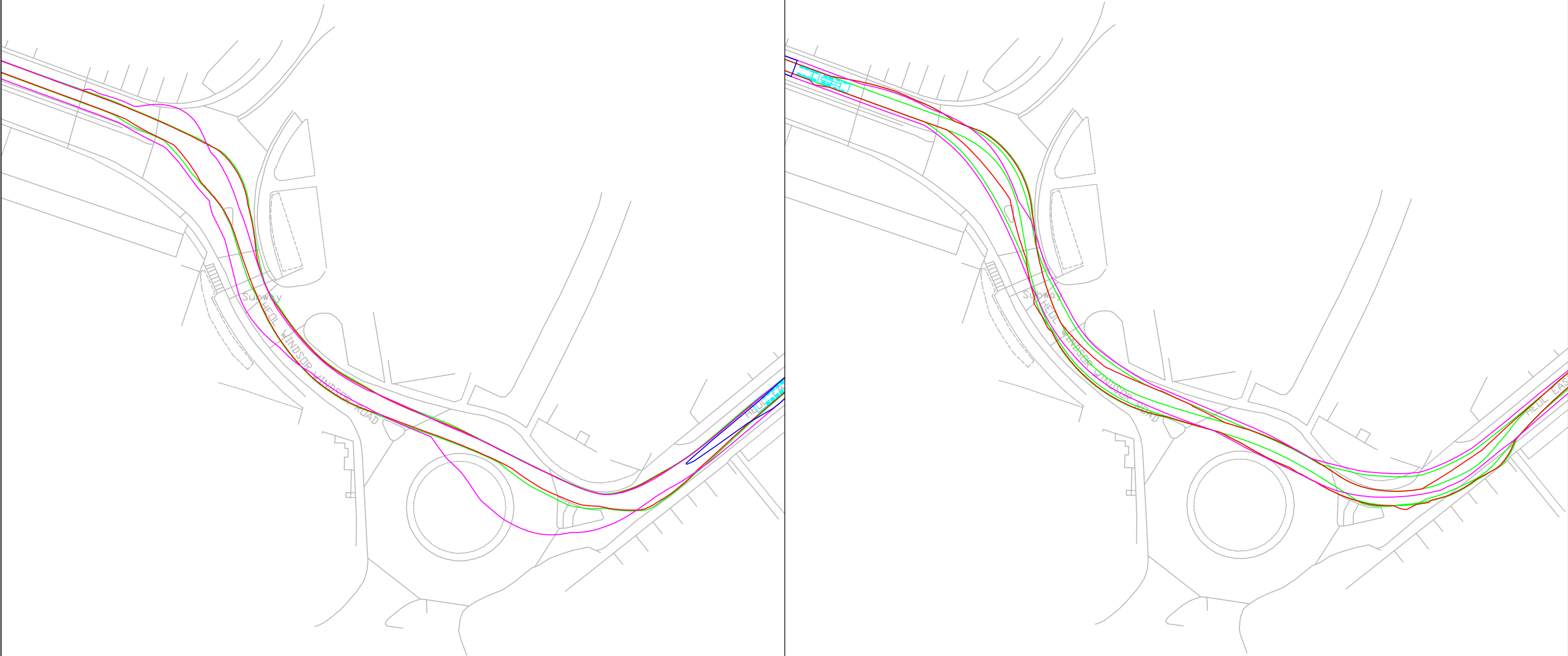


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project Mynydd Fforch Dwm Wind Farm			Name	Date	Scale 1:1000 @ A3	
			Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg	
			Designed	TL	28/11/2022		
			Checked	GB	28/11/2022		
Client REG Power Management	Drawing Title Vestas V150 Blade and Tower		Point of Interest		7	Drawing Status Draft	
			Drawing No. SK06A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		Revision XXX	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location A465 / A474 Roundabout						

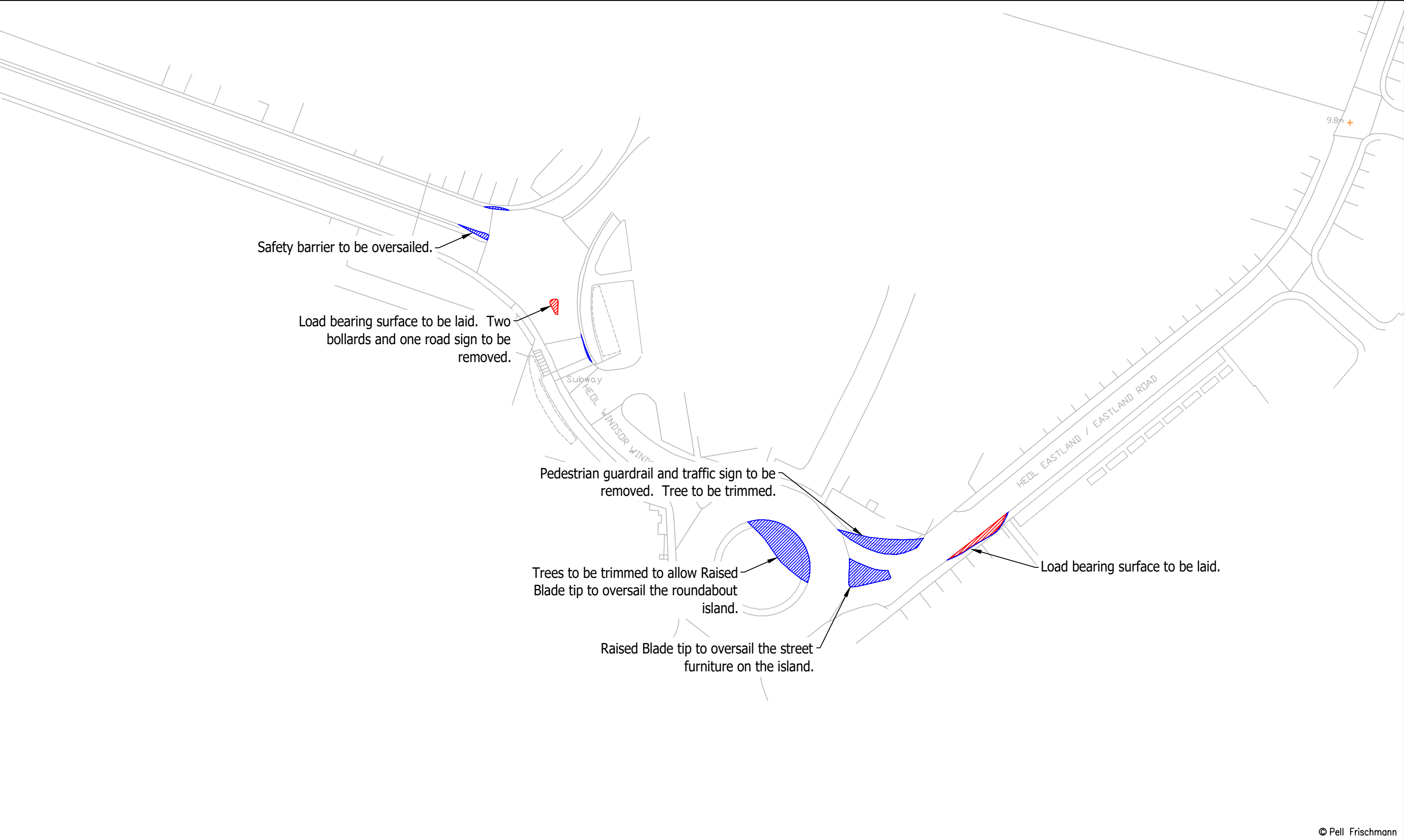
Raised
Blade

Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale	
					Drawn	JS	28/11/2022	1:1000 @ A3	
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg	
					Checked	GB	28/11/2022	Drawing Status	
Client	REG Power Management		Drawing Title		Point of Interest		8	Draft	
					Drawing No.		Notes:		Revision
Key			SPA Location		SK07		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX
Wheel SPA	Body SPA	Load SPA	Indicative	Over-run	Over-sail				
A74 Alford Road / B4434 Roundabout									

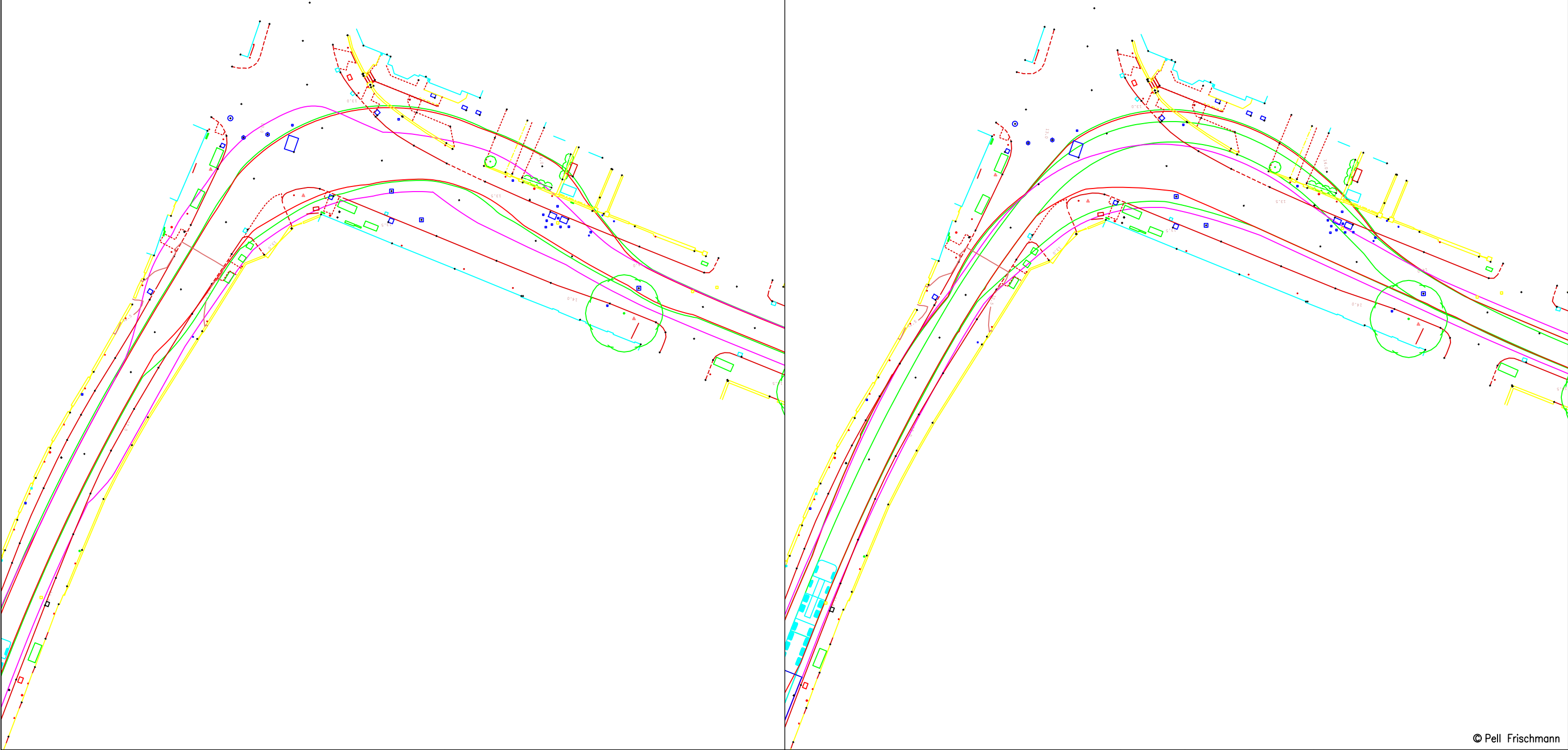


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: p.fedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
				Drawn	JS	28/11/2022	1:1000 @ A3			
				Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
				Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower			Point of Interest		8	Draft	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	A74 Alford Road / B4434 Roundabout			Drawing No.	Notes:			Revision
				SK07A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX		

Raised
Blade

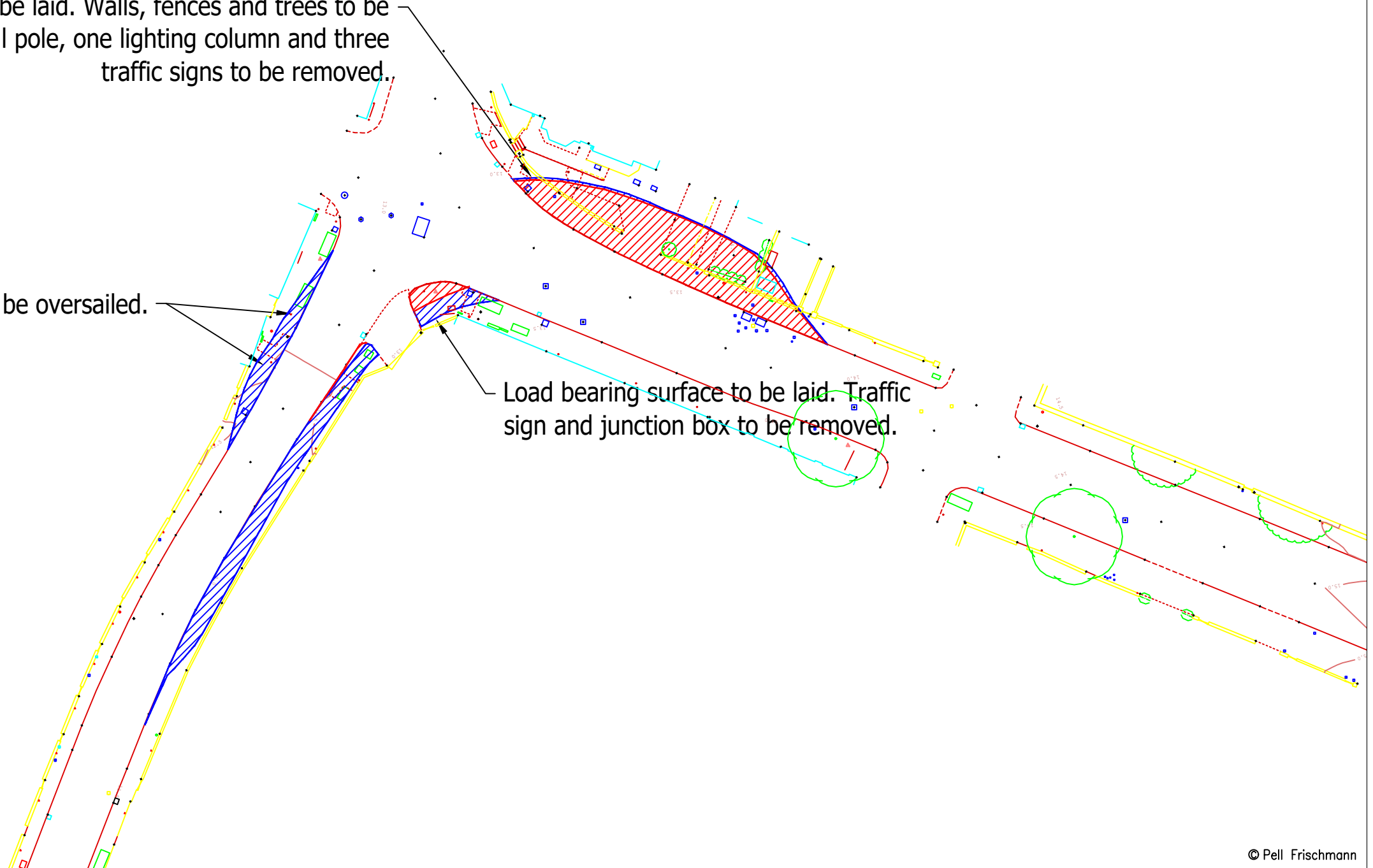
Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
					Drawn	JS	28/11/2022	1:500 @ A3			
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
					Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		9	Draft	
							Drawing No.		SK08	Notes:	Revision
Key		Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		B4434 / B4287 Junction		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	

- Load bearing surface to be laid. Traffic sign and junction box to be removed.



	Name	Date	Scale 1:500 @ A3
Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg
Designed	TL	28/11/2022	
Checked	GB	28/11/2022	
Point of Interest		9	Drawing Status Draft
Drawing No. SK08A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		Revision XXX



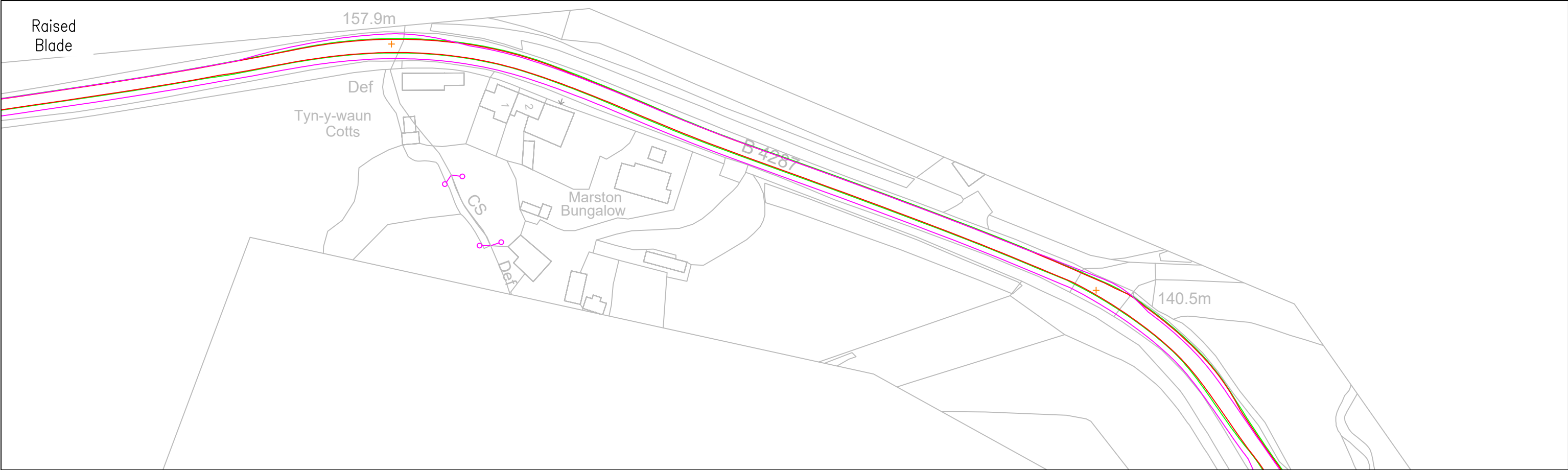
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project Mynydd Fforch Dwm Wind Farm			Name	Date	Scale 1:1000 @ A3			
			Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg			
			Designed	TL	28/11/2022				
			Checked	GB	28/11/2022	Drawing Status Draft			
Client REG Power Management	Drawing Title Vestas V150 Blade and Tower		Point of Interest		11				
			Drawing No. SK09		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		Revision XXX		
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location B4287 Right Bend at Rookwood Close							



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
					Drawn	JS	28/11/2022	1:500 @ A3		
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
					Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management		Drawing Title		Point of Interest		11		Draft	
					Drawing No.		Notes:		Revision	
Key		SPA Location		SK09A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX		
Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail										



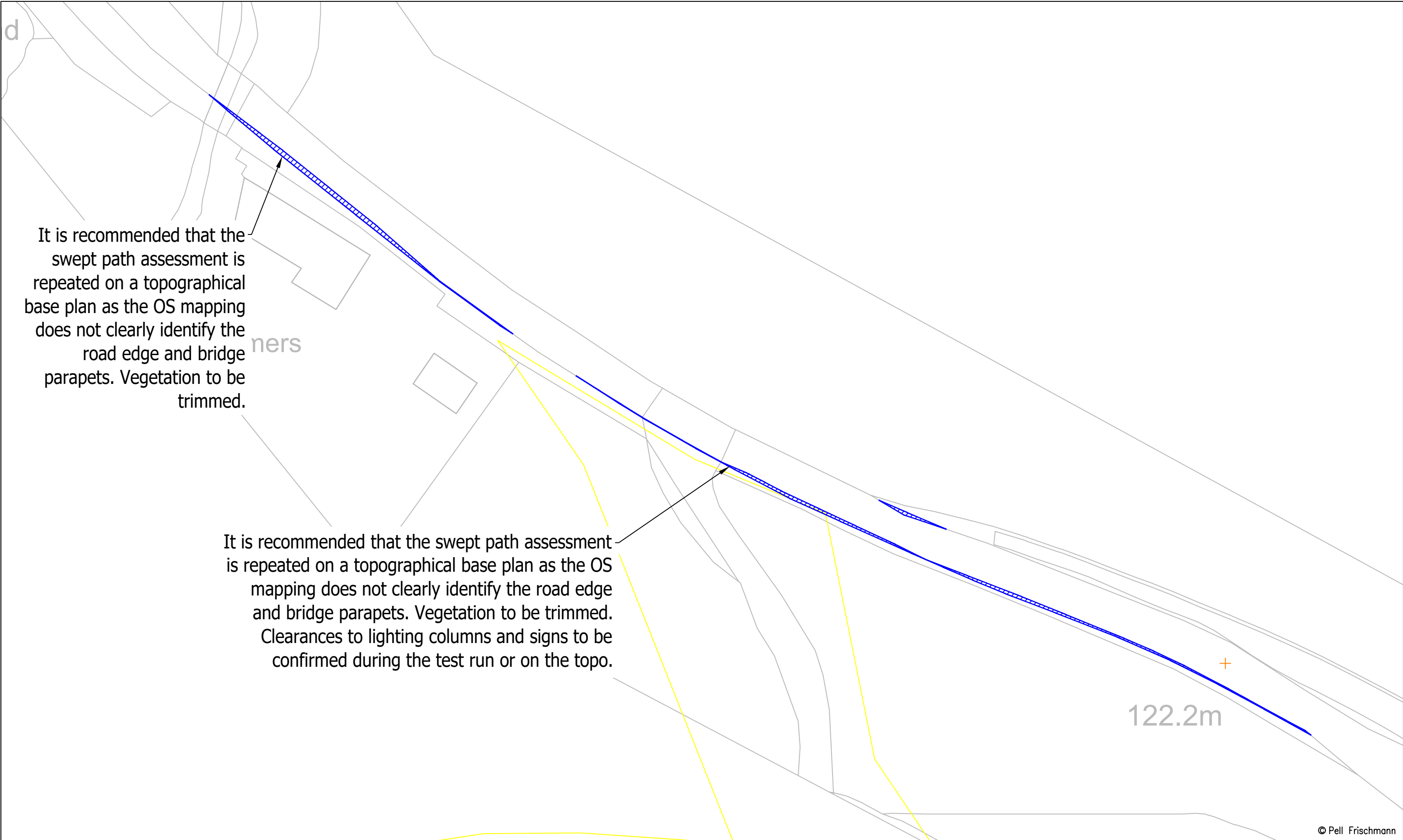
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale	
				Drawn	JS	28/11/2022	1:1000 @ A3	
				Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg	
				Checked	GB	28/11/2022	Drawing Status	
Client	REG Power Management	Drawing Title		Point of Interest		12	Draft	
		SPA Location		Drawing No.	Notes:		Revision	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	B4287 Cwm Aber-nant		NO MITIGATION REQUIRED		SK10	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX

Topographic map showing a valley floor with contour lines. A stream, labeled "Cwm Aber-nant", flows through the valley. A road, labeled "d Farmers", runs along the valley floor. A proposed road alignment is shown with a brown line and a magenta line. A distance of 122.2m is marked along the alignment. A blue arrow points to a specific location on the alignment.

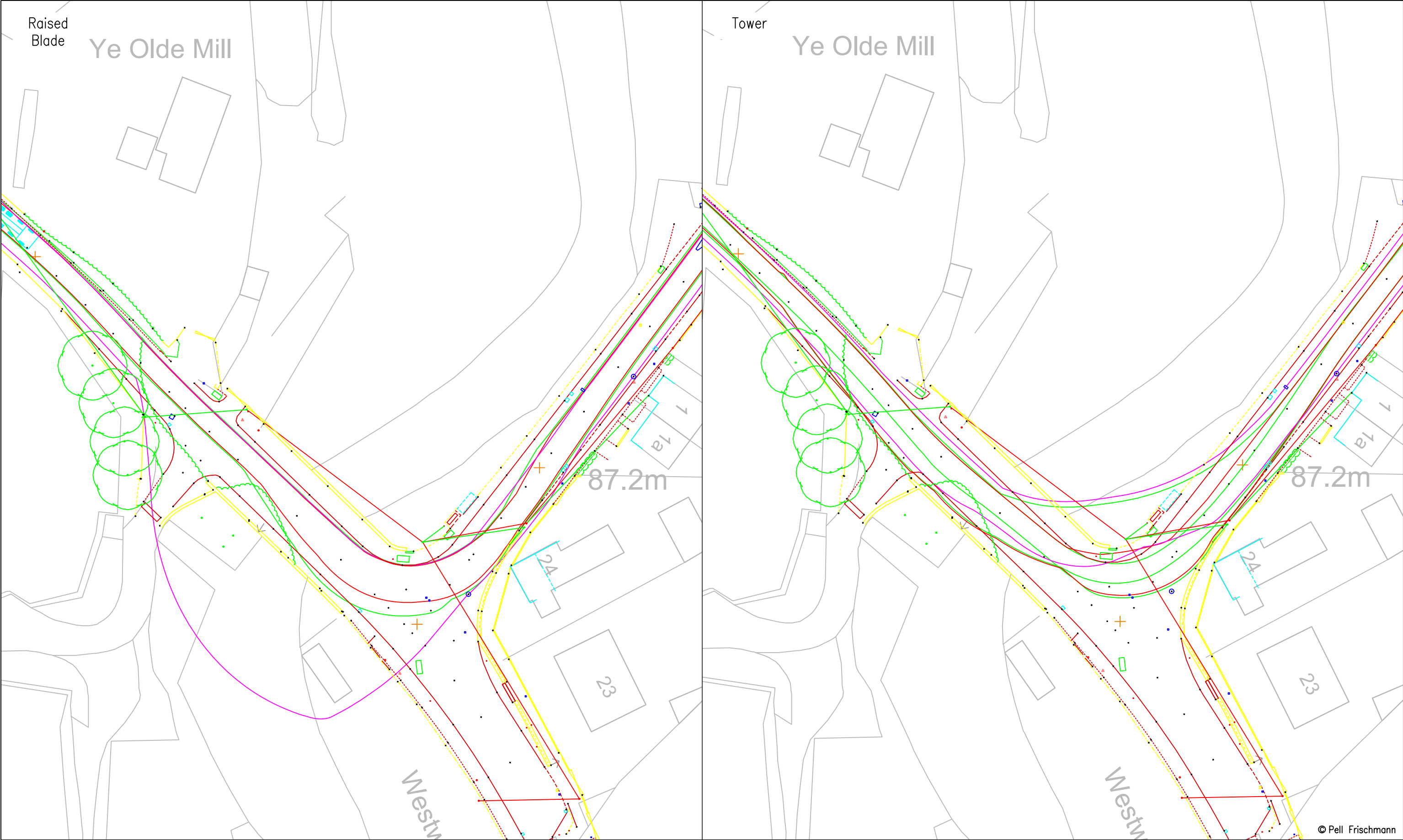
This topographic map shows a mountain slope with contour lines. A yellow boundary line is drawn across the slope. A red line, possibly a path or boundary, runs diagonally from the top left towards the bottom right. A green line follows the red line closely. A blue arrow points to a specific location on the red line, labeled '122.2m'. The text 'Tower' is at the top left, and 'Cwm Aber-nant' is at the bottom right. The copyright notice '© Pell Frischmann' is at the bottom right.

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		1:1000 @ A3	
					Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg			
					Designed	TL	28/11/2022				
					Checked	GB	28/11/2022	Drawing Status			
Client		REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		Draft	
Key				SPA Location		B4287 Cwm Aber-nant		Drawing No.		Notes:	
								SK11		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.	
										Revision	
										XXX	



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	ClientREG Power Management	ProjectMynydd Fforch Dwm Wind Farm	Drawing TitleVestas V150 Blade and Tower	SPA LocationB4287 Cwm Aber-nant		Name	Date	Scale1:500 @ A3	
					Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg	
					Designed	TL	28/11/2022	Drawing StatusDraft	
					Checked	GB	28/11/2022	Point of Interest13	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail					Drawing No.	Notes:			Revision
					SK11A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX



Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		1:500 @ A3				
					Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg						
					Designed	TL	28/11/2022							
					Checked	GB	28/11/2022	Drawing Status Draft						
				Point of Interest		14								
Client	REG Power Management				Drawing Title		Vestas V150 Blade and Tower		Drawing No.		Notes:		Revision	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail					SPA Location		B4287 / Ton Mawr Road		SK12		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	



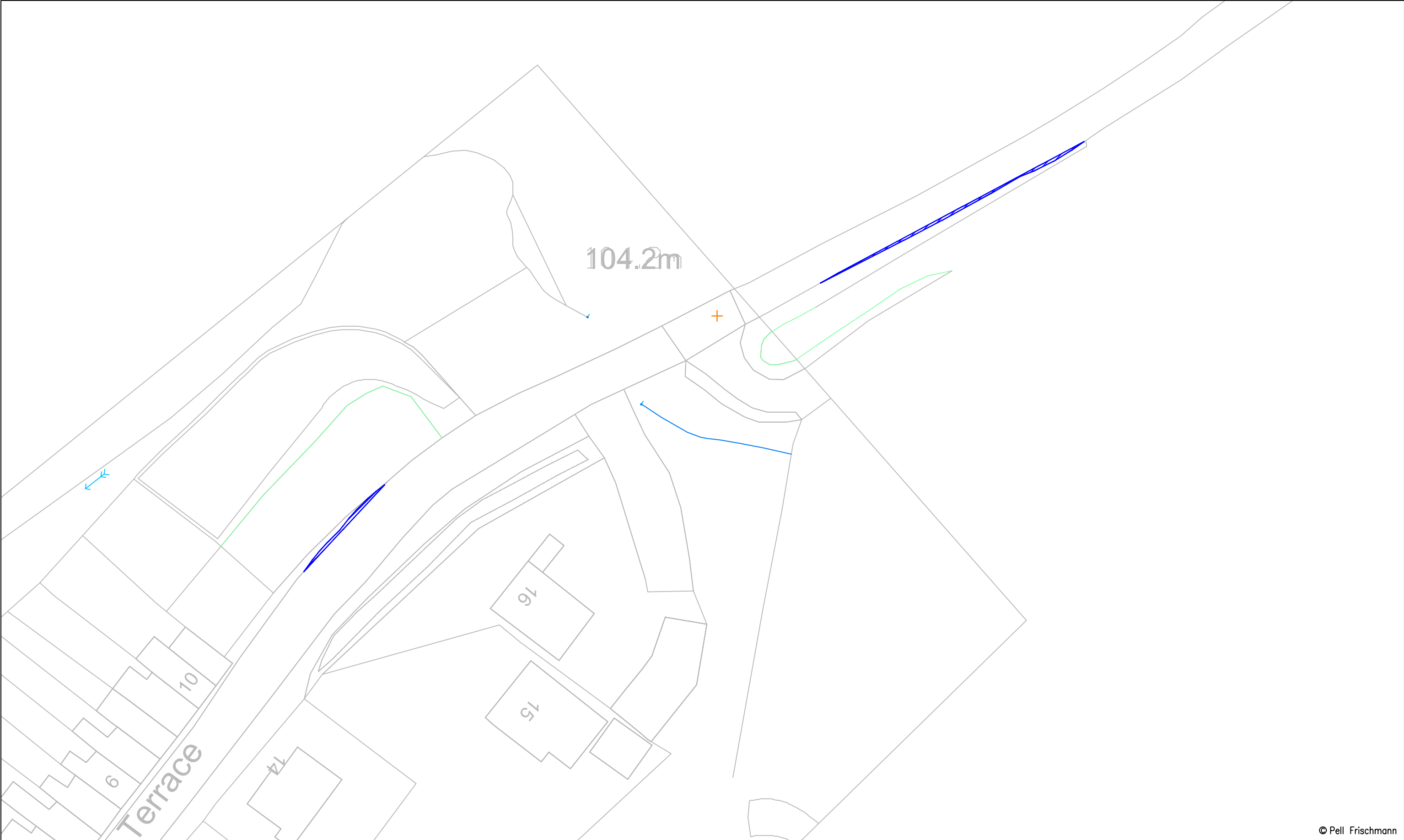
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		1:500 @ A3			
					Drawn	JS	28/11/2022	File No.		221128 planning app tracking.dwg			
					Designed	TL	28/11/2022						
					Checked	GB	28/11/2022	Drawing Status		Draft			
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		14				
							Drawing No.		Notes:		Revision		
Key		Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		B4287 / Ton Mawr Road		SK12A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale				
					Drawn	JS	28/11/2022	1:1000 @ A3				
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg				
					Checked	GB	28/11/2022	Drawing Status				
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		15	Draft		
							Drawing No.		Notes:		Revision	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		Ton Mawr Road North of Efail-fach		SK13		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	

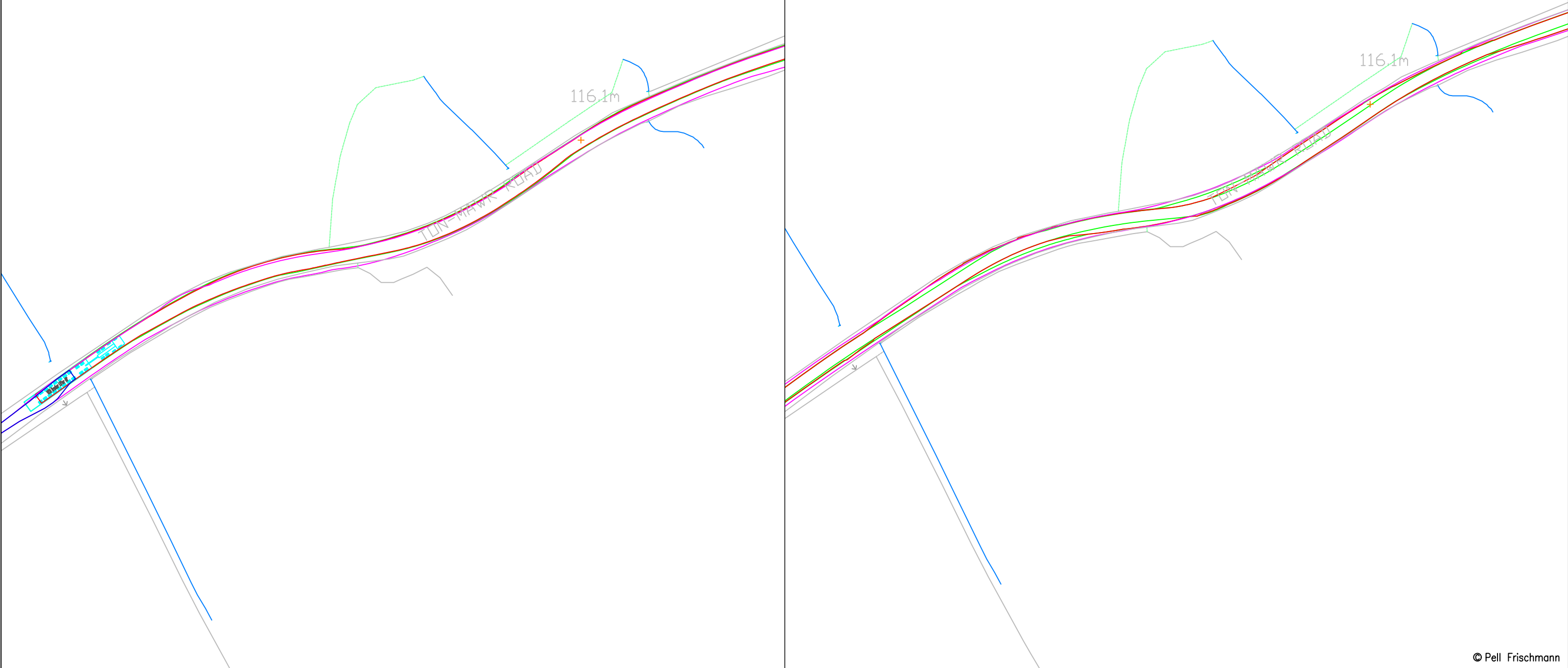


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
					Drawn	JS	28/11/2022	1:500 @ A3			
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
					Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management		Drawing Title		Point of Interest		15		Draft		
					Drawing No.		Notes:		Revision		
Key		SPA Location		Ton Mawr Road North of Efail-fach		SK13A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	
Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail											

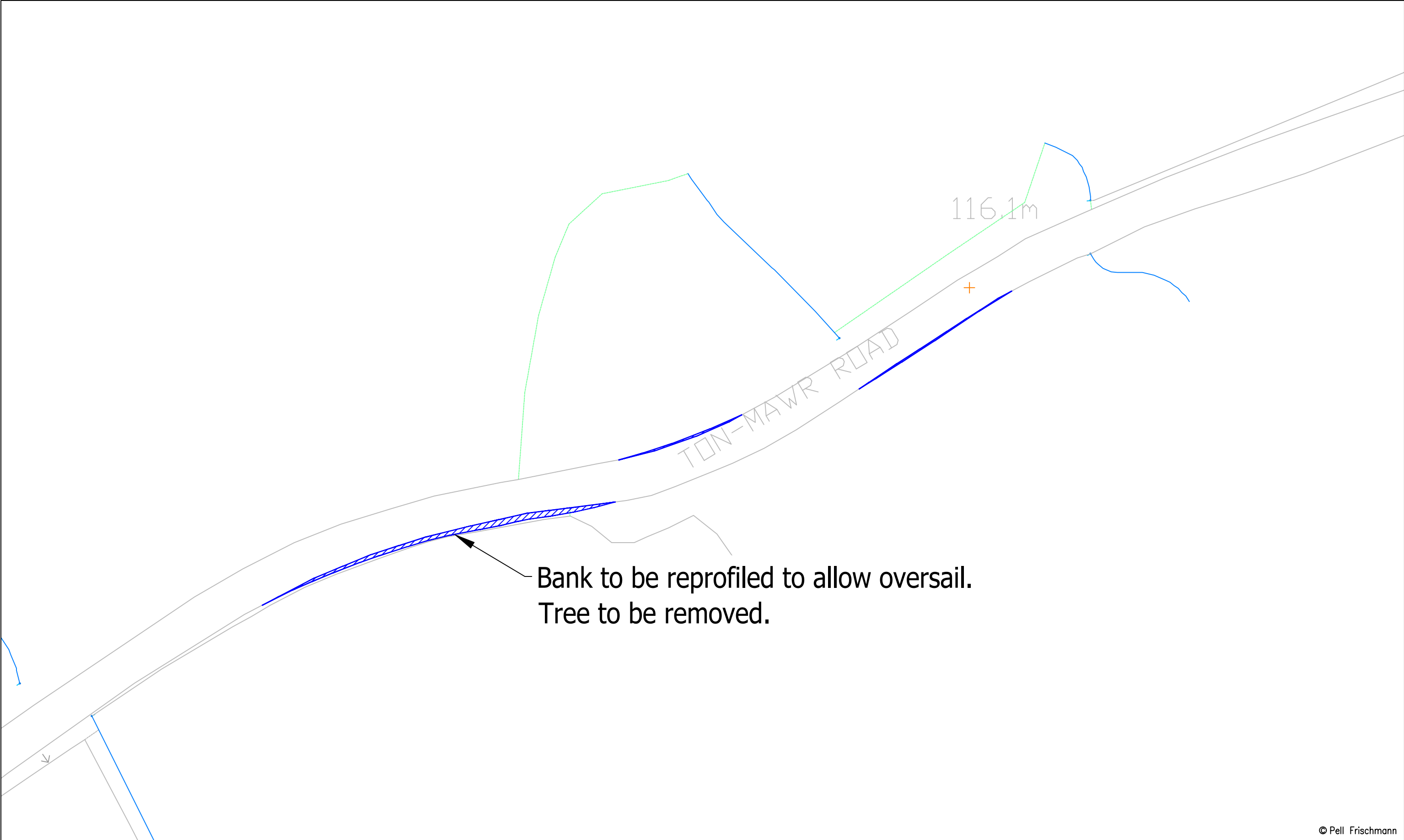
Raised
Blade

Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale				
					Drawn	JS	28/11/2022	1:1000 @ A3				
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg				
					Checked	GB	28/11/2022	Drawing Status				
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		16	Draft		
							Drawing No.		Notes:		Revision	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		SPA Location		Ton Mawr Road North of Efail-fach		SK14		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	

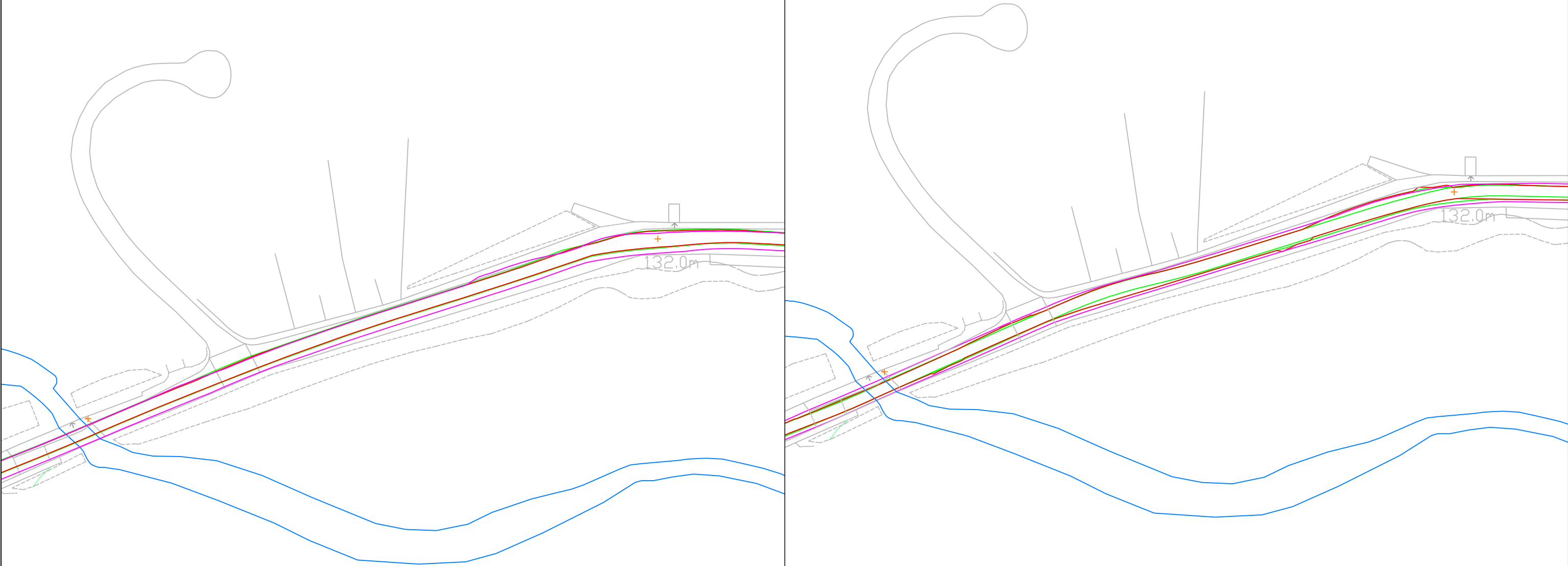


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: p.fedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
					Drawn	JS	28/11/2022	1:500 @ A3		
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
					Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management		Drawing Title		Point of Interest		16		Draft	
Key							Notes:			Revision
	Wheel SPA	Body SPA	Load SPA	Indicative	Over-run	Over-sail	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX
		SPA Location		Ton Mawr Road North of Efail-fach		Drawing No.		SK14A		

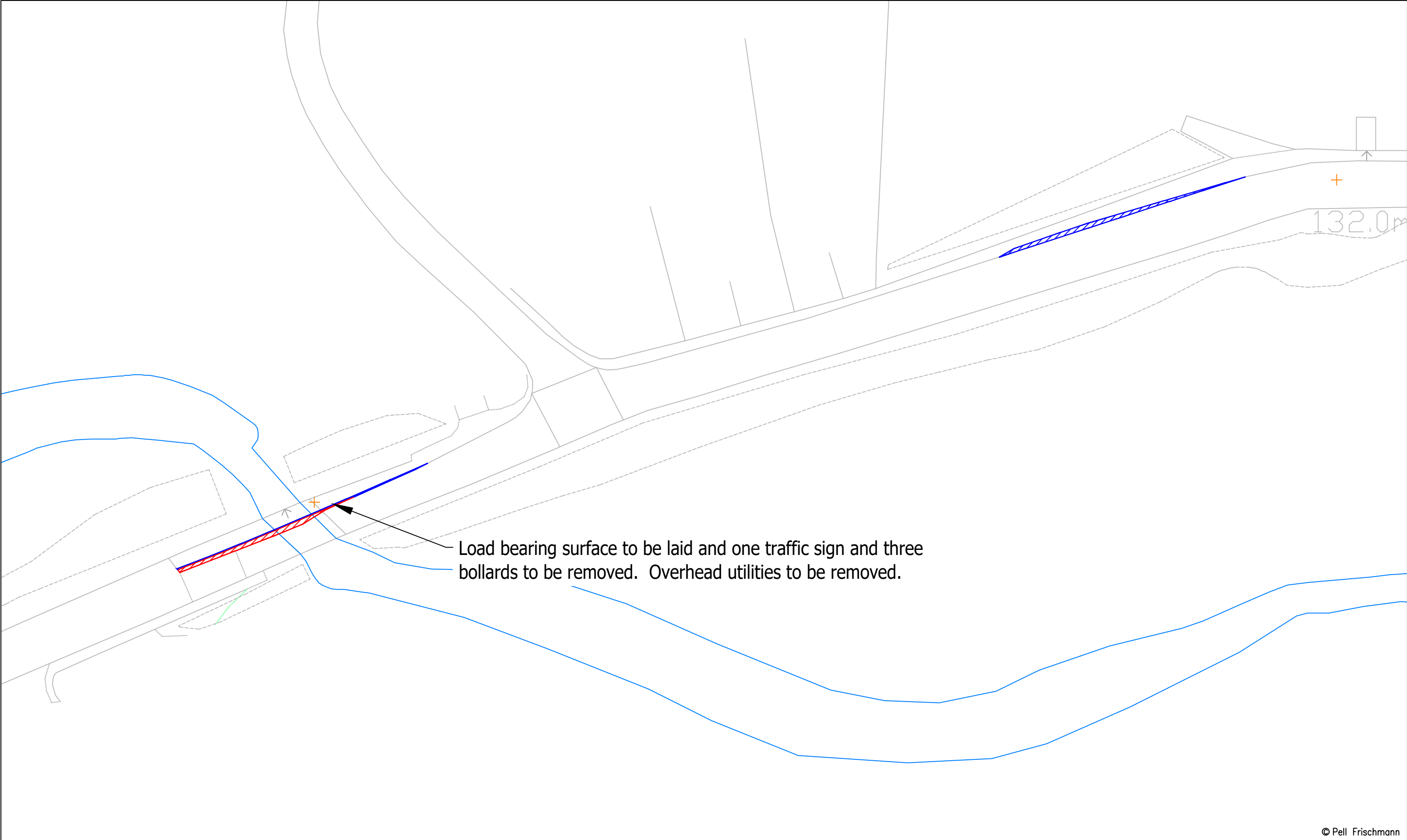
Raised
Blade

Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
					Drawn	JS	28/11/2022	1:1000 @ A3		
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg		
					Checked	GB	28/11/2022	Drawing Status		
Client	REG Power Management		Drawing Title		Point of Interest		17		Draft	
Key	SPA Location		Vestas V150 Blade and Tower		Drawing No.		Notes:		Revision	



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale			
					Drawn	JS	28/11/2022	1:500 @ A3			
					Designed	TL	28/11/2022	File No. 221128 planning app tracking.dwg			
					Checked	GB	28/11/2022	Drawing Status			
Client	REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		17	Draft	
							Drawing No.		SK15A	Notes:	Revision
Key							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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.				XXX
Wheel SPA	Body SPA	Load SPA	Indicative	Over-run	Over-sail	SPA Location		Ton Mawr Road South of Tonmawr			

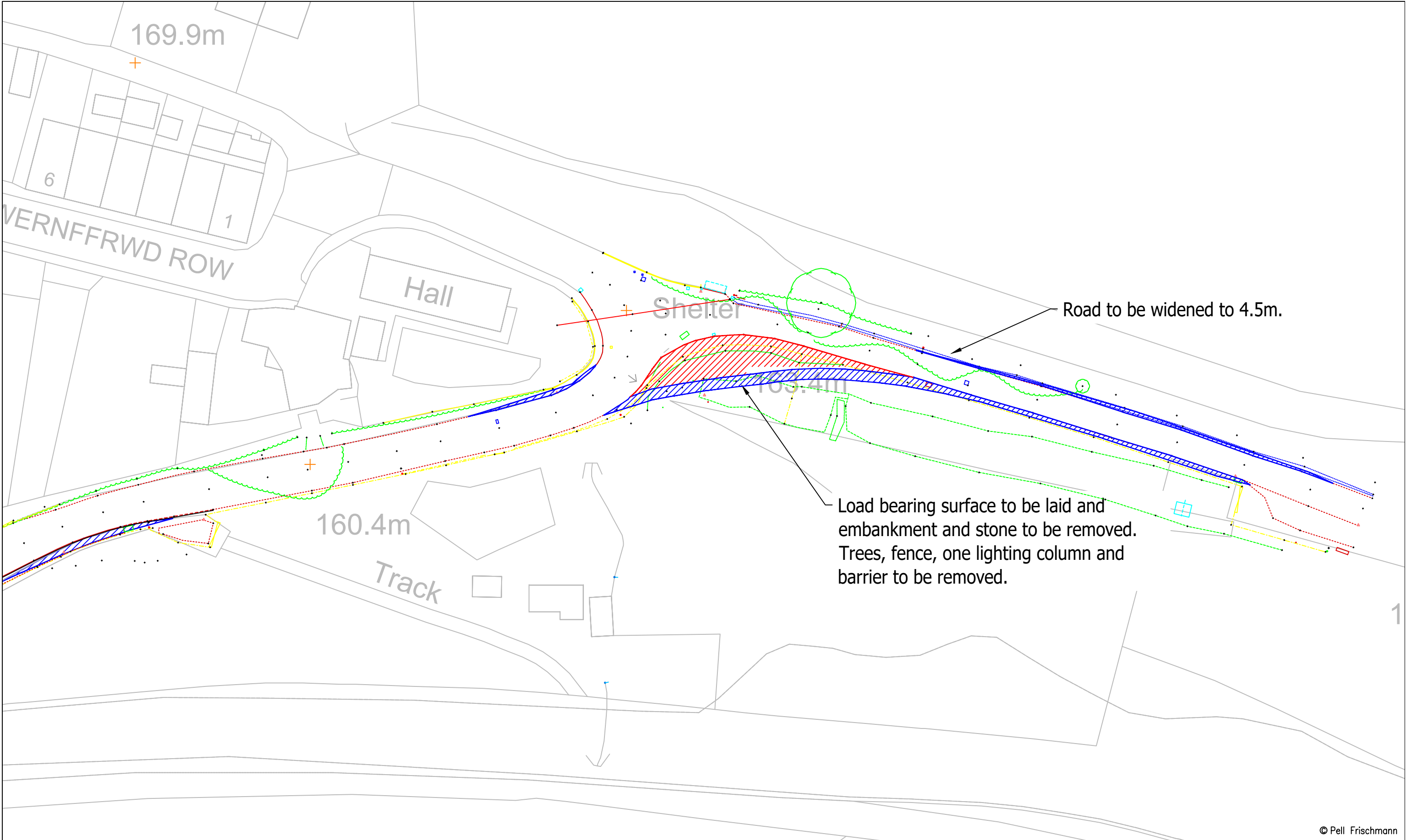
Raised
Blade

Tower



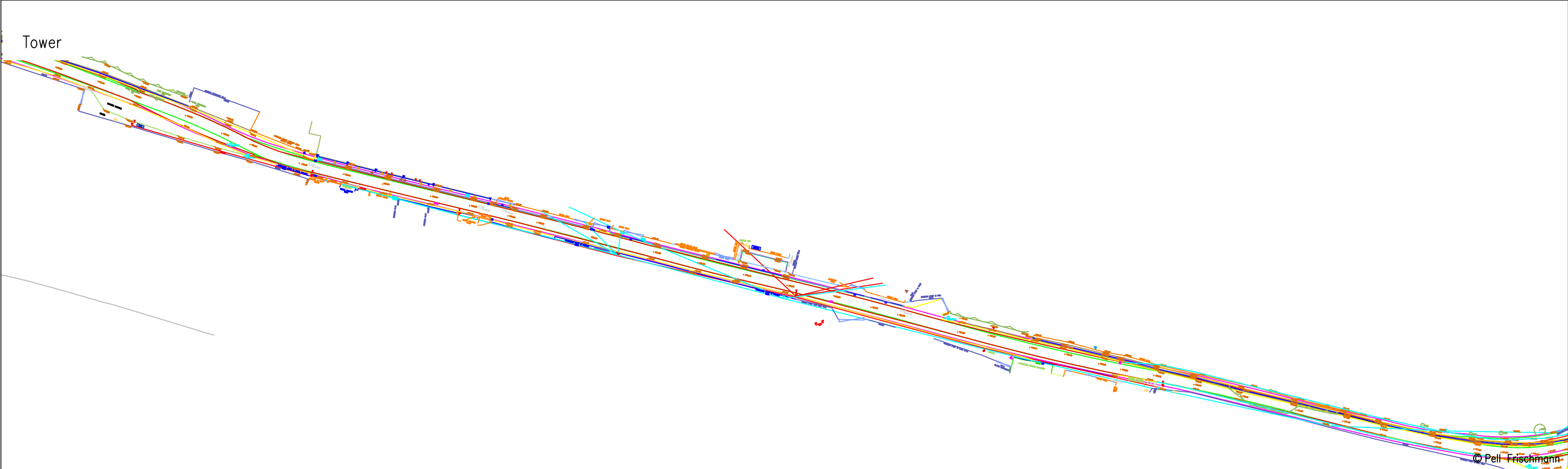
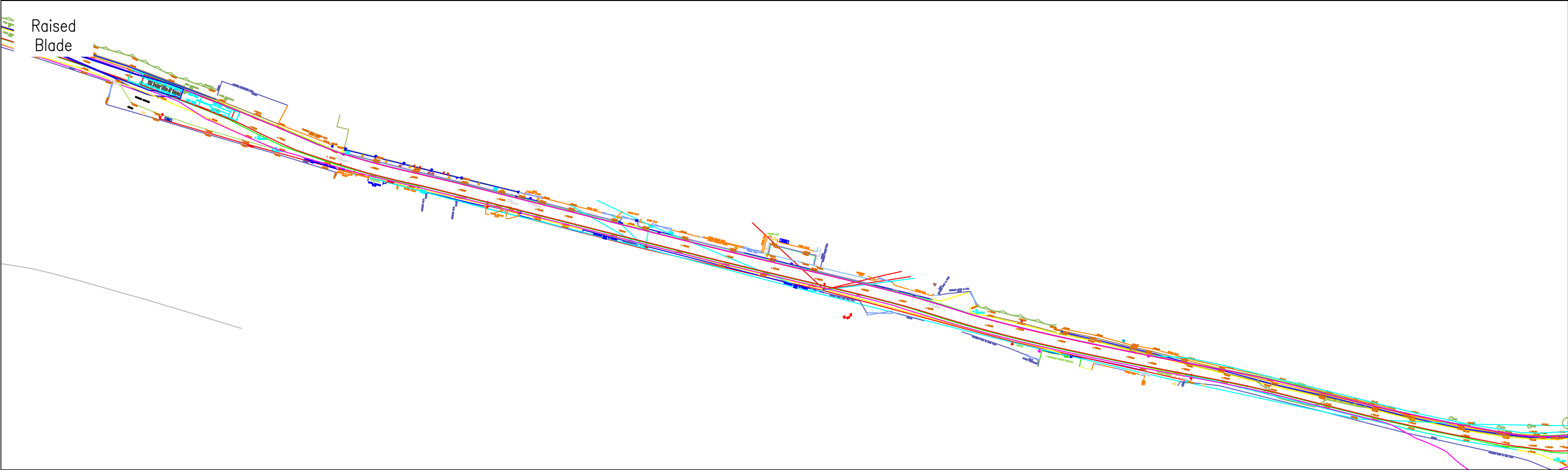
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		Custom @ A3					
					Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg							
					Designed	TL	28/11/2022								
					Checked	GB	28/11/2022	Drawing Status				Draft			
Client		REG Power Management		Drawing Title		Vestas V150 Blade and Tower		Point of Interest		18					
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail				SPA Location		Ton Mawr Road / Fforch-dwm Road		Drawing No.		SK16		Notes:		Revision	
												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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX	

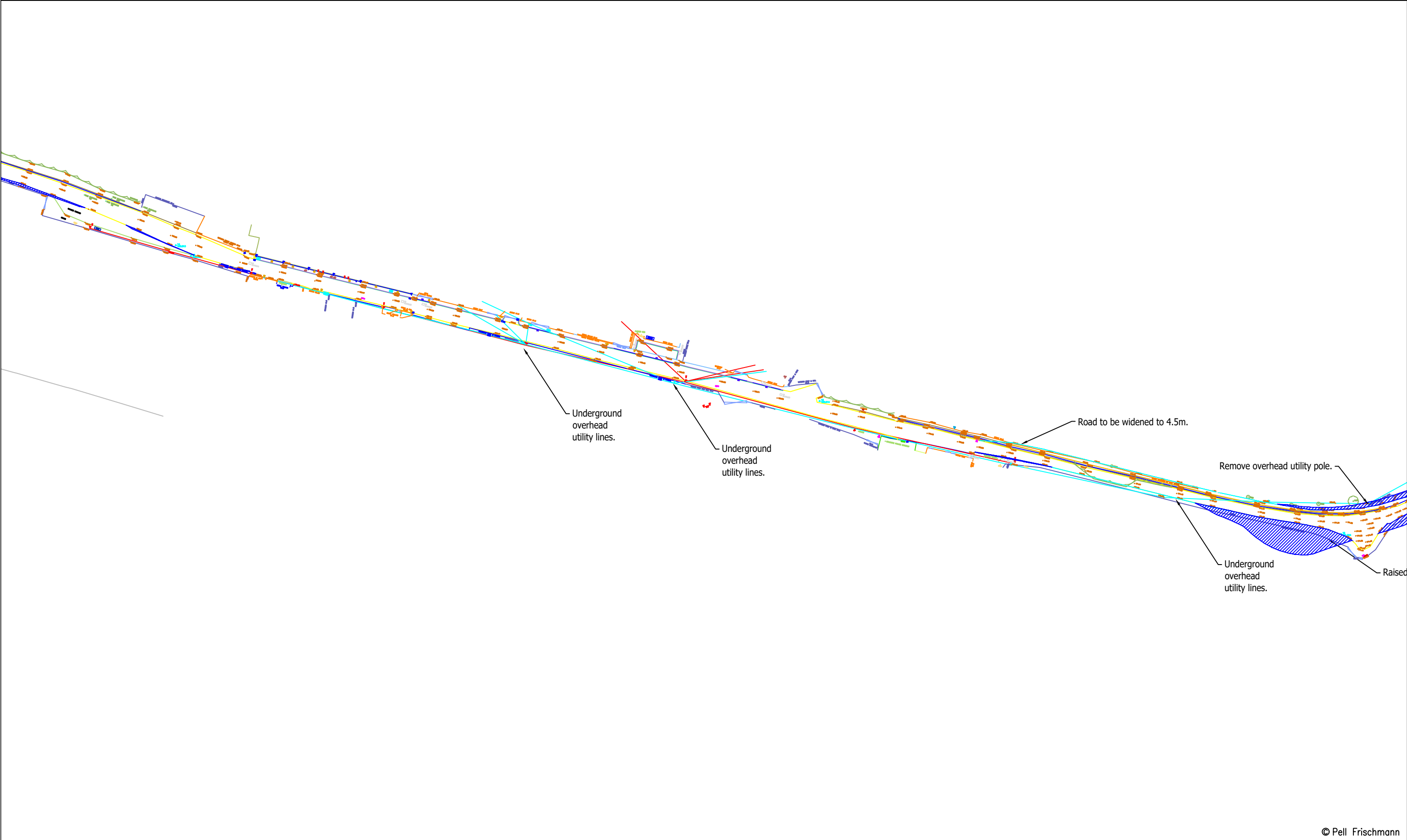


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	ClientREG Power Management	ProjectMynydd Fforch Dwm Wind Farm	Drawing TitleVestas V150 Blade and Tower	SPA LocationTon Mawr Road / Fforch-dwm Road		Name	Date	Scale1:500 @ A3	
					Drawn	JS	28/11/2022	File No. 221128 planning app tracking.dwg	
					Designed	TL	28/11/2022	Drawing Status	
					Checked	GB	28/11/2022	Draft	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail					Point of Interest		18	Revision	
					Drawing No. SK16A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		XXX



Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project Mynydd Fforch Dwm Wind Farm			Name	Date	Scale Custom @ A3	
			Drawn	JS	22/05/2023	File No. 220523 MfD Tracks.dwg	
			Designed	TL	22/05/2023		
			Checked	GB	22/05/2023	Drawing Status Draft	
Client REG Power Management	Drawing Title Vestas V150 Blade and Tower		Point of Interest		18		
	SPA Location Ton Mawr Road Houses		Drawing No. SK16B		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail						Revision XXX	

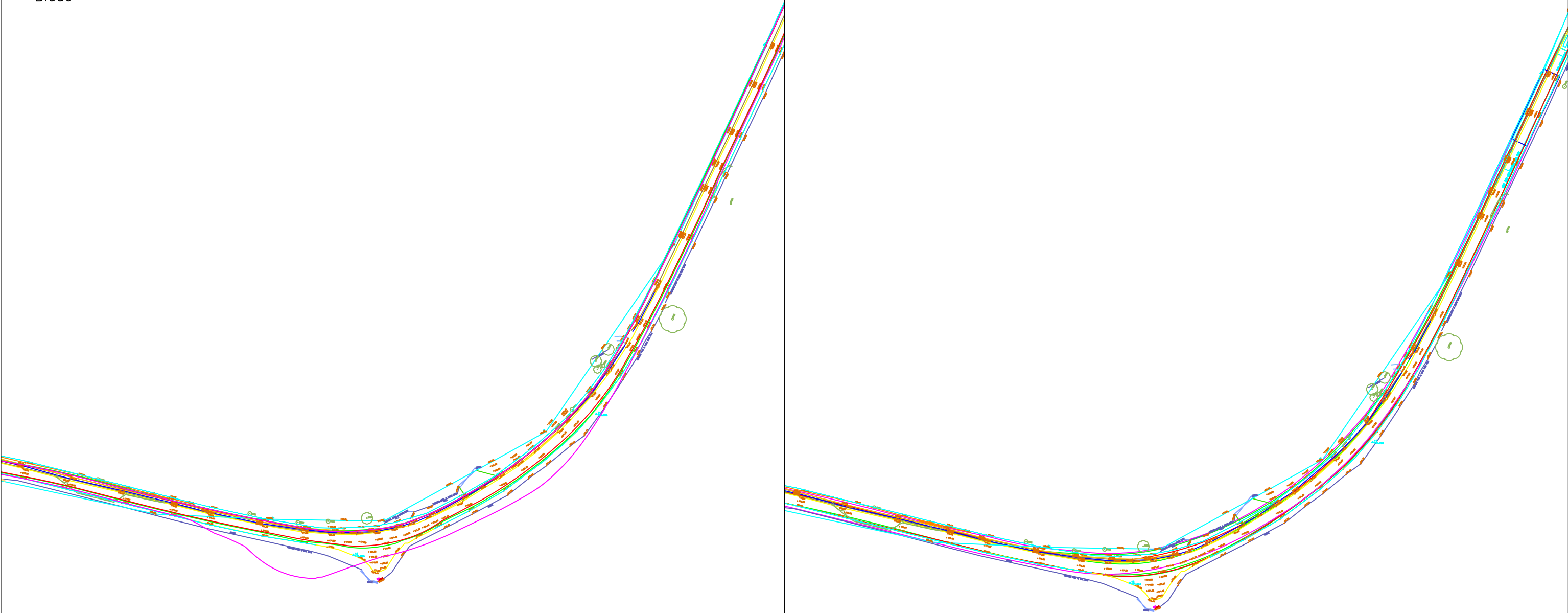


© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
				Drawn	JS	22/05/2023	1:1000 @ A3		
				Designed	TL	22/05/2023	File No.	220523 MfD Tracks.dwg	
				Checked	GB	22/05/2023	Drawing Status		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		18	Draft	
					Drawing No.	SK16C	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.	Revision XXX	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Ton Mawr Road Houses						

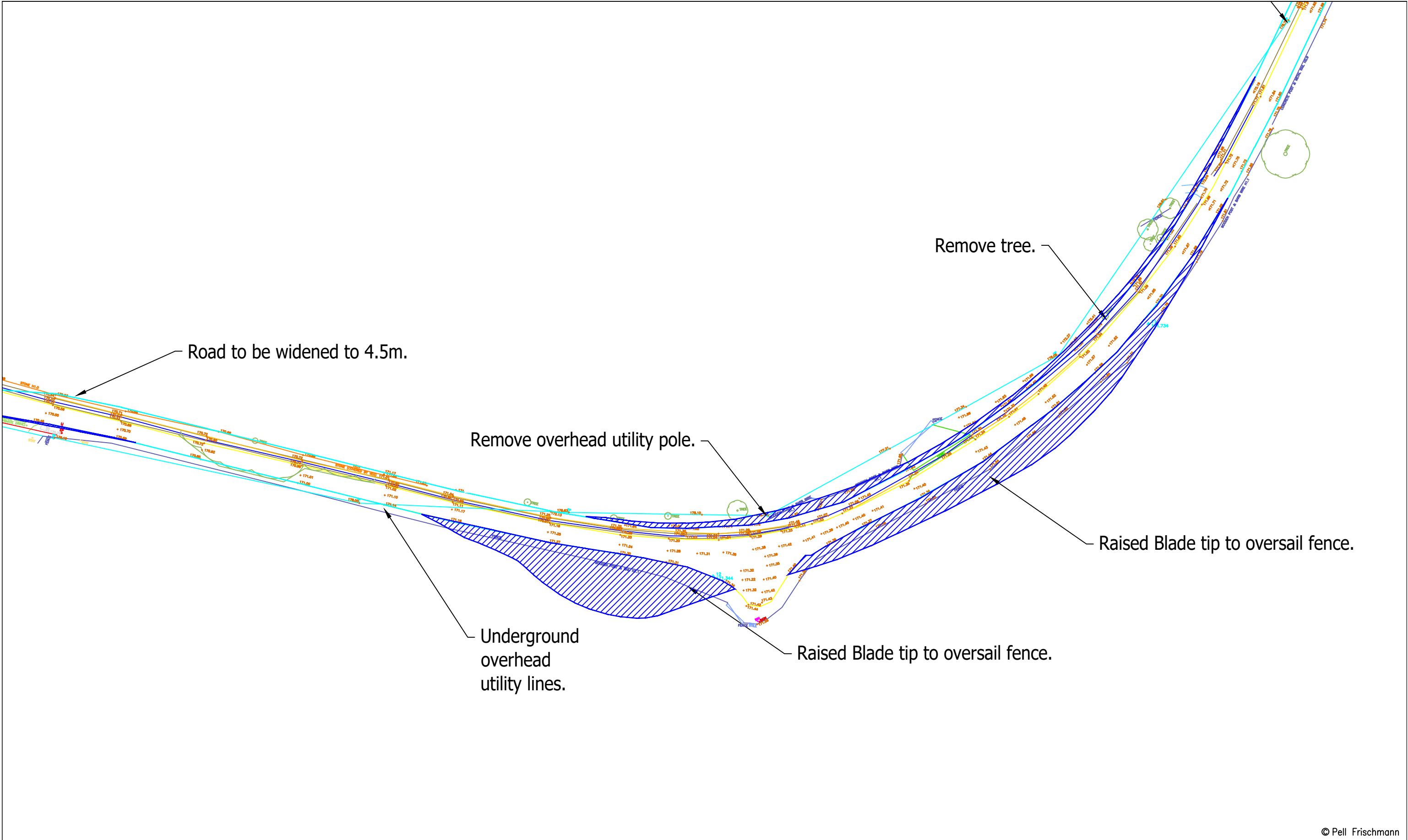
Raised
Blade

Tower



© Pell Frischmann

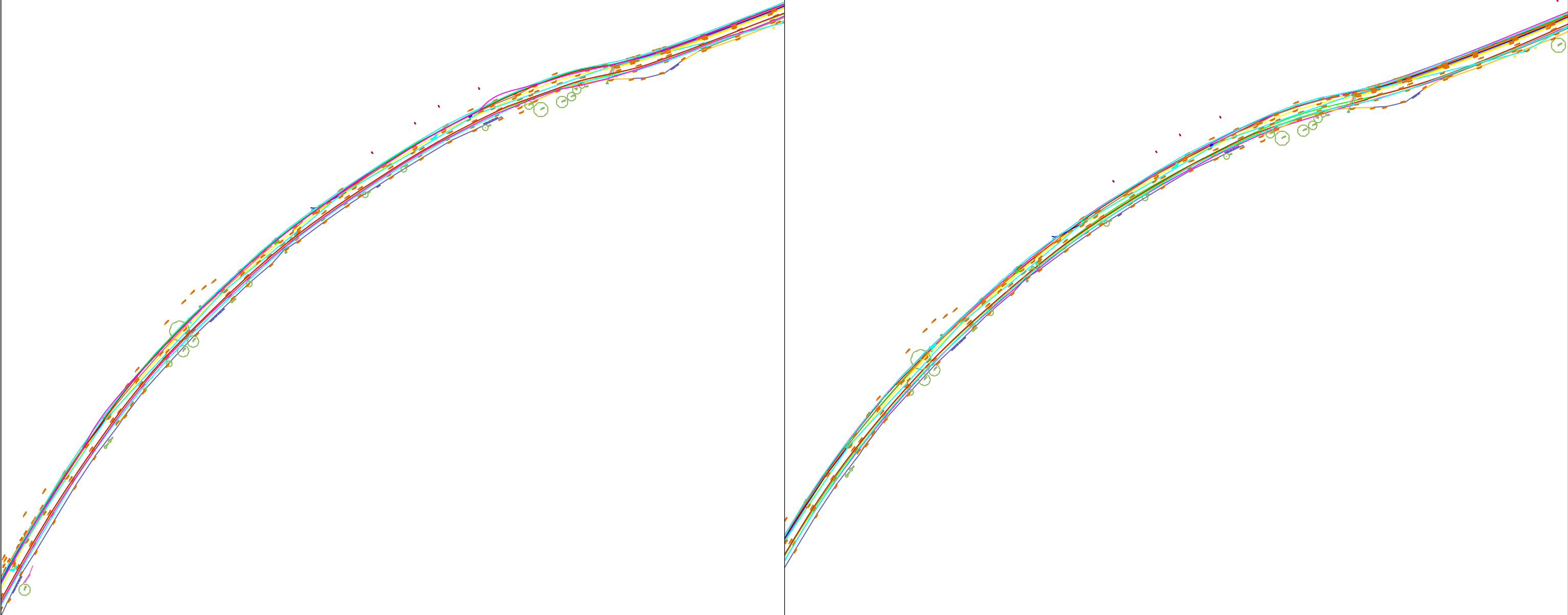
Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
				Drawn	JS	22/05/2023	1:1000 @ A3		
				Designed	TL	22/05/2023	File No.	220523 MfD Tracks.dwg	
				Checked	GB	22/05/2023	Drawing Status		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		19	Draft	
					Drawing No.	Notes:			Revision
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Left Bend		SK17	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX



Pell Frischmann 93 GEORGE STREET, EDINBURGH. EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project		Name		Date	Scale			
	Mynydd Fforch Dwm Wind Farm		Drawn	JS	22/05/2023	1:500 @ A3			
			Designed	TL	22/05/2023	File No. 220523 MfD Tracks.dwg			
			Checked	GB	22/05/2023	Drawing Status Draft			
Client	REG Power Management		Drawing Title		Point of Interest		19	Revision	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail		Vestas V150 Blade and Tower		Drawing No.		Notes:			
		SPA Location		SK17A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			
		Fforch-dwm Road Left Bend				XXX			

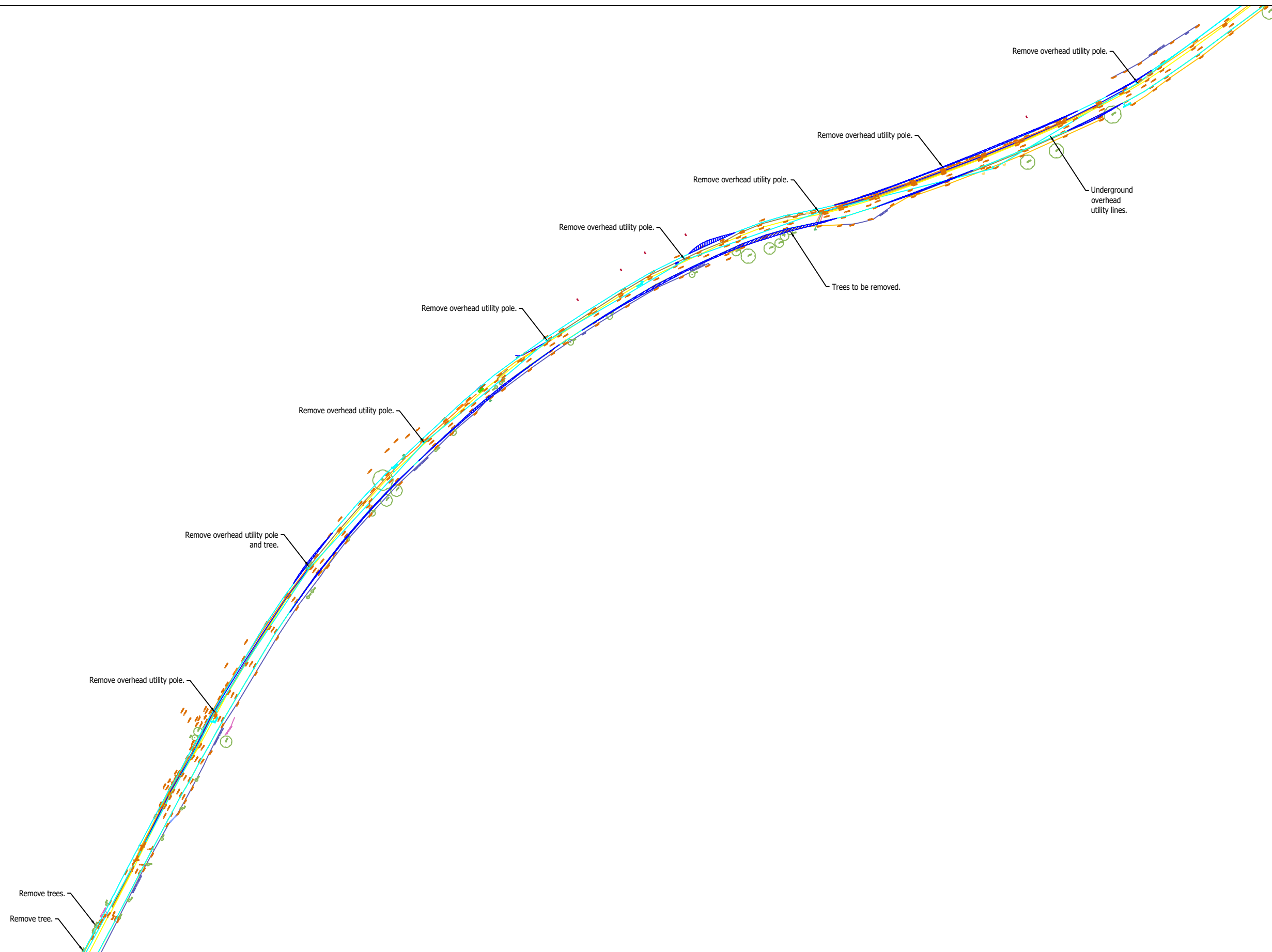
Raised
Blade

Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale					
				Drawn	JS	22/05/2023	Custom @ A3					
				Designed	TL	22/05/2023	File No.	220523 MfD Tracks.dwg				
				Checked	GB	22/05/2023	Drawing Status					
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		20, 21		Draft			
					Drawing No.	Notes:					Revision	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Pelena House		SK18		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.					XXX



Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm		Name	Date	Scale			
			Drawn	JS	22/05/2023	Custom @ A3			
			Designed	TL	22/05/2023	File No.	220523 MfD Tracks.dwg		
			Checked	GB	22/05/2023	Drawing Status			
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		20, 21	Draft	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Pelena House	Drawing No.	Notes:			Revision	
				SK18A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX	

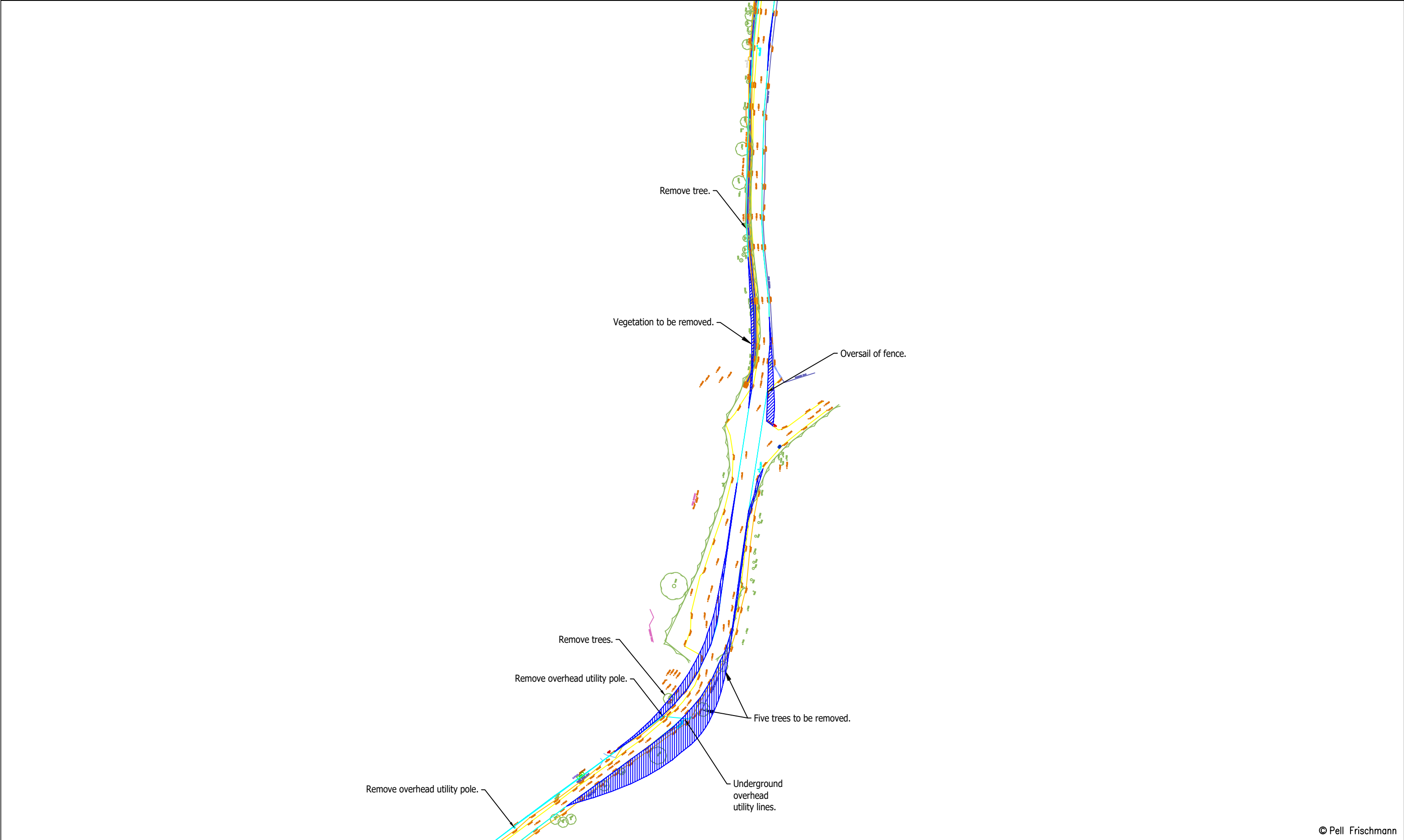
Raised
Blade

Tower



© Pell Frischmann

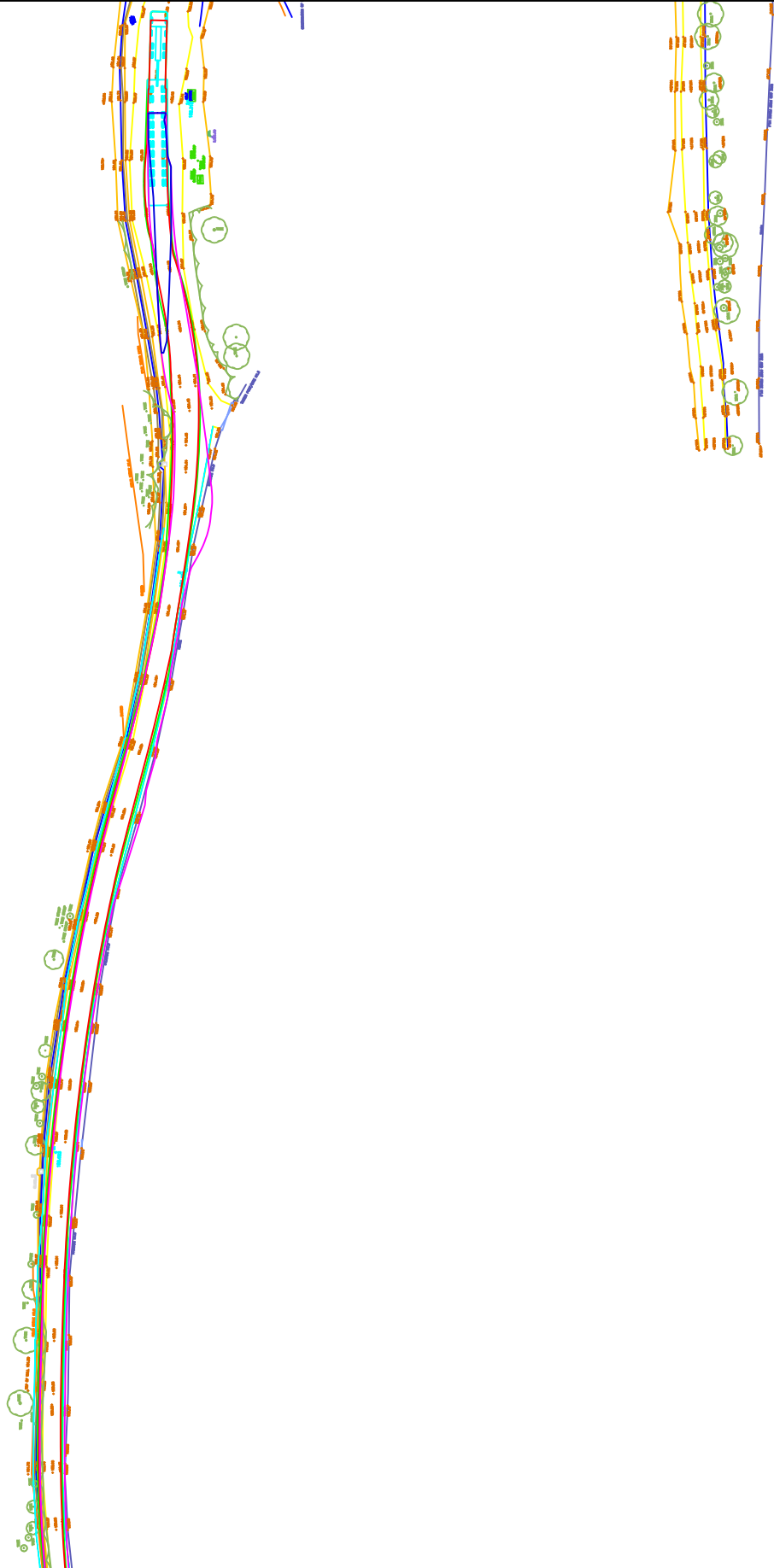
Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfedinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm		Name	Date	Scale			1:1000 @ A3			
			Drawn	JS	22/05/2023	File No. 220523 MfD Tracks.dwg						
			Designed	TL	22/05/2023							
			Checked	GB	22/05/2023							
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower	Point of Interest		22		Drawing Status			Draft	
				Drawing No.	Notes:					Revision		
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Pelena House	SK19	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.					XXX		



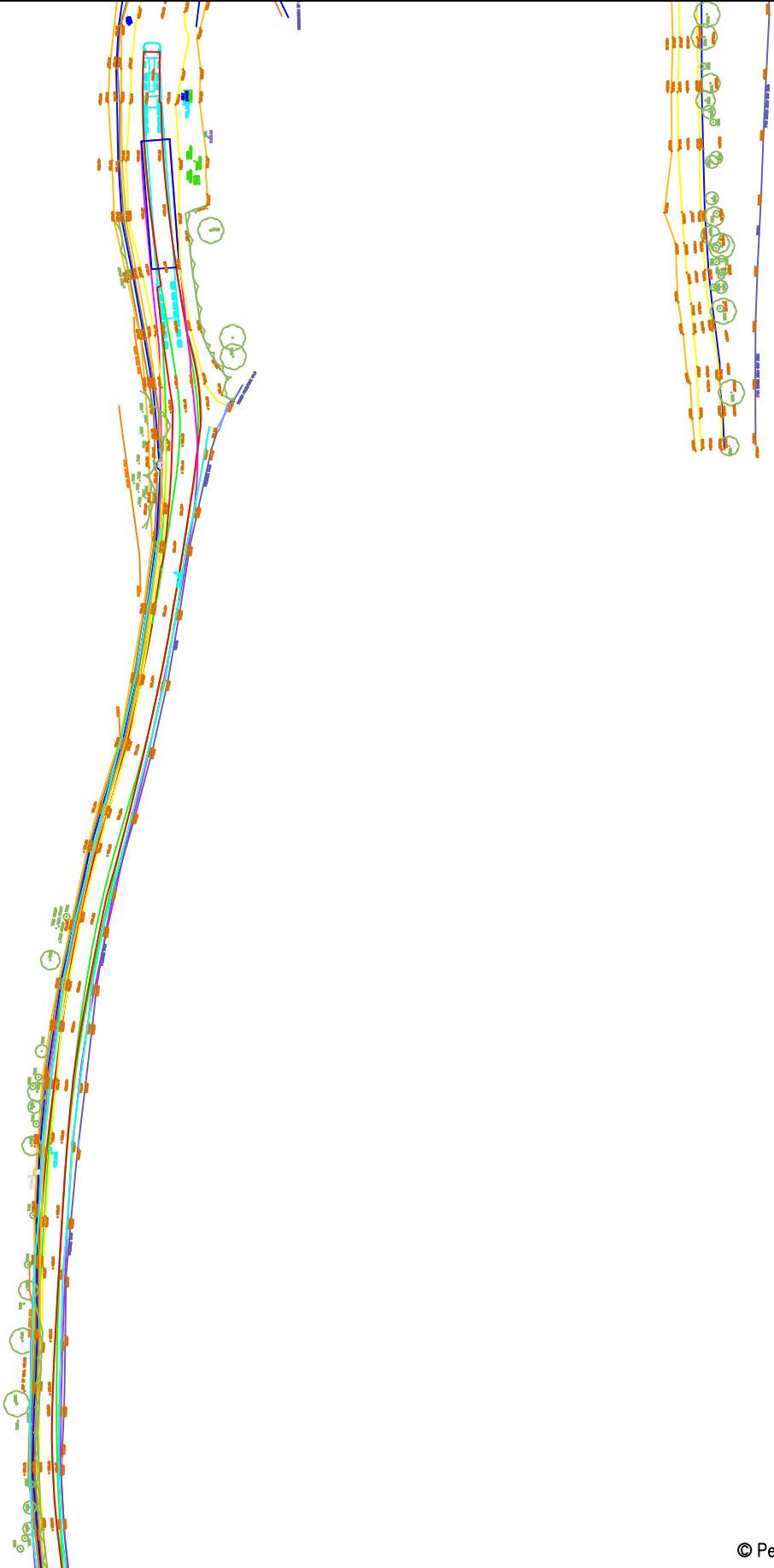
© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project Mynydd Fforch Dwm Wind Farm			Name	Date	Scale 1:1000 @ A3	
			Drawn	JS	22/05/2023	File No. 220523 MfD Tracks.dwg	
			Designed	TL	22/05/2023		
			Checked	GB	22/05/2023	Drawing Status Draft	
Client REG Power Management	Drawing Title Vestas V150 Blade and Tower		Point of Interest		22		
			Drawing No. SK19A	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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.		Revision XXX	
Key Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location Fforch-dwm Road Pelena House						

Raised
Blade



Tower



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		
				Drawn	JS	22/05/2023	1:1000 @ A3		
				Designed	TL	22/05/2023	File No.	220523 MfD Tracks.dwg	
				Checked	GB	22/05/2023	Drawing Status		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower	Point of Interest		23,24		Draft	
				Drawing No.	Notes:			Revision	
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Proposed Site Entrance	SK20		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.			XXX



© Pell Frischmann

Pell Frischmann 93 GEORGE STREET, EDINBURGH, EH2 3ES Tel: +44 (0)131 240 1270 Email: pfredinburgh@pellfrischmann.com www.pellfrischmann.com	Project	Mynydd Fforch Dwm Wind Farm			Name	Date	Scale		1:500 @ A3			
				Drawn	JS	22/05/2023	File No. 220523 MFD Tracks.dwg					
				Designed	TL	22/05/2023						
				Checked	GB	22/05/2023	Drawing Status			Draft		
Client	REG Power Management	Drawing Title	Vestas V150 Blade and Tower		Point of Interest		23,24					
					Drawing No.	Notes:				Revision		
Key	Wheel SPA Body SPA Load SPA Indicative Over-run Over-sail	SPA Location	Fforch-dwm Road Proposed Site Entrance		SK20A		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. All overhead utilities and obstructions to be removed where blade is carried in the raised position.				XXX	

