



COMHAIRLE NAN EILEAN SIAR

The Town and Country Planning Scotland Act 1997 – Section 36(1)

Town and Country Planning General Development Procedure Order 2013 Regulation 16

Planning Register - Part 1

Application Details

Reference Number	24/00457/PPW
Date registered as valid	10/10/24
Description of Development	Installation of 9 metre to hub (11.8 to tip) wind turbine and create access road associated with turbine
Address or description of location to which the document relates	4 Seilebost, Isle of Harris
Co-ordinates	E 106 069, N 896 764
Applicant Name	Mrs Indrani Mukherjee
Applicant Address	15 Matheson Road, Stornoway, Isle of Lewis, HS1 2LR
Agent name (if applicable)	Fiona Porteous, Porteous Architecture
Agent address (if applicable)	Stornoway Business Hub, 9 Bank Street, Stornoway, Isle of Lewis, HS1 2XG

The above application summary is accompanied by plans and drawings sufficient to describe the development and where relevant any design statement.

Important Note: on Tuesday 07 November 2023, Comhairle nan Eilean Siar experienced a criminal cyber incident and is working with Police Scotland, the Scottish Government and the National CyberSecurity Centre to investigate the matter.

The Online Planning Portal remains unavailable as does our suite of integrated software and hardware systems. In order to enable access by the wider public to application documents and consult upon planning applications, interim systems have been put in place on the temporary website of Comhairle nan Eilean Siar, including a rudimentary facility to display a limited number of documents per application.

Any party wishing to view the application file in full may do so at the offices of Comhairle nan Eilean Siar at Sandwick Road, Stornoway Isle of Lewis, HS1 2BW or Balivanich, Isle of Benbecula. HS7 5LA, ordinarily between 9am and 5pm Monday to Friday (excluding public and local holidays). It is recommended that in advance of visiting an office to view an application that you make an appointment by sending an email to planning@cne-siar.gov.uk

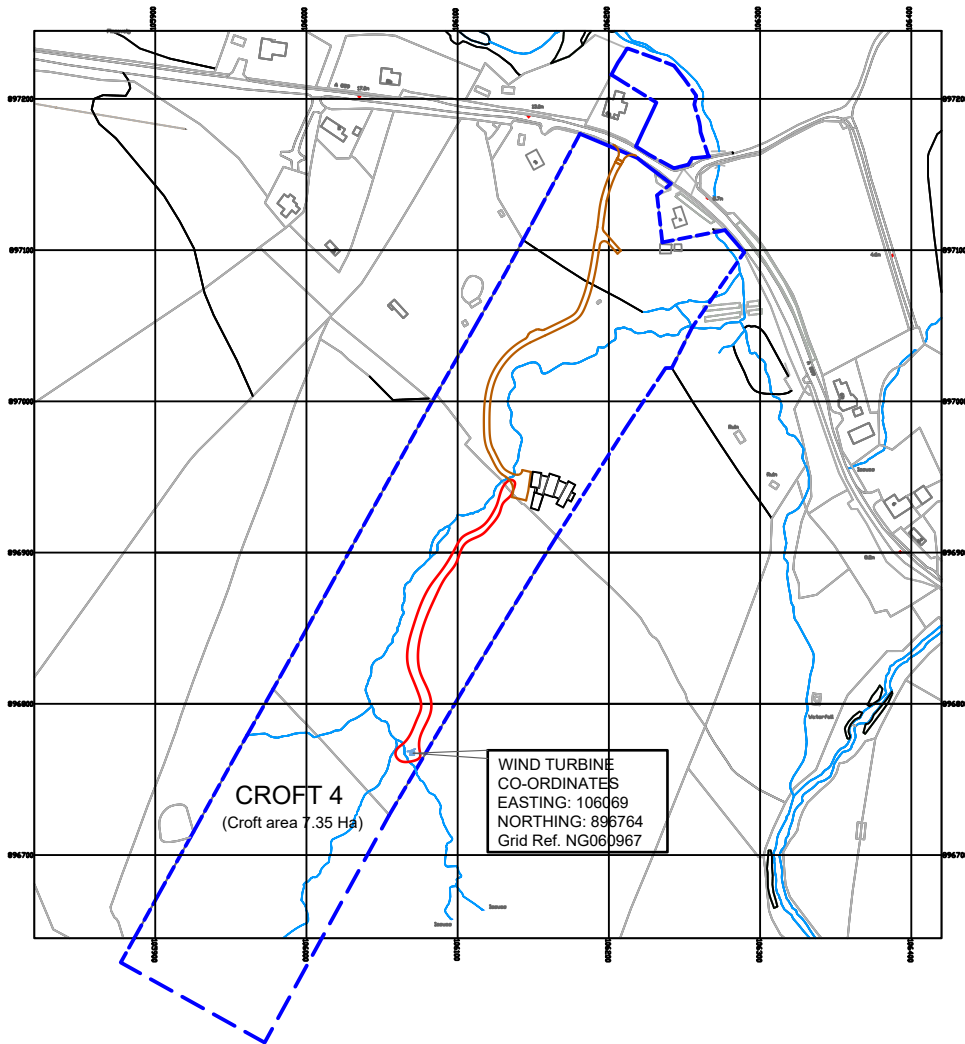
PROPOSED WIND TURBINE
4B Seilebost, Isle of Harris.
for
Mrs. Indrani Mukherjee
PLANNING

LOCATION PLAN

project:	21-15W
date:	23.09.24
size:	A4
scale:	1:5000
drawing:	P-01-W
revision:	

NOTE:
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Croft boundary outlined with blue dashed line

Revision A -Amended croft boundary line to blue. 4.2.21
 Revision B -Amended croft access position and track alignment. 10.3.21



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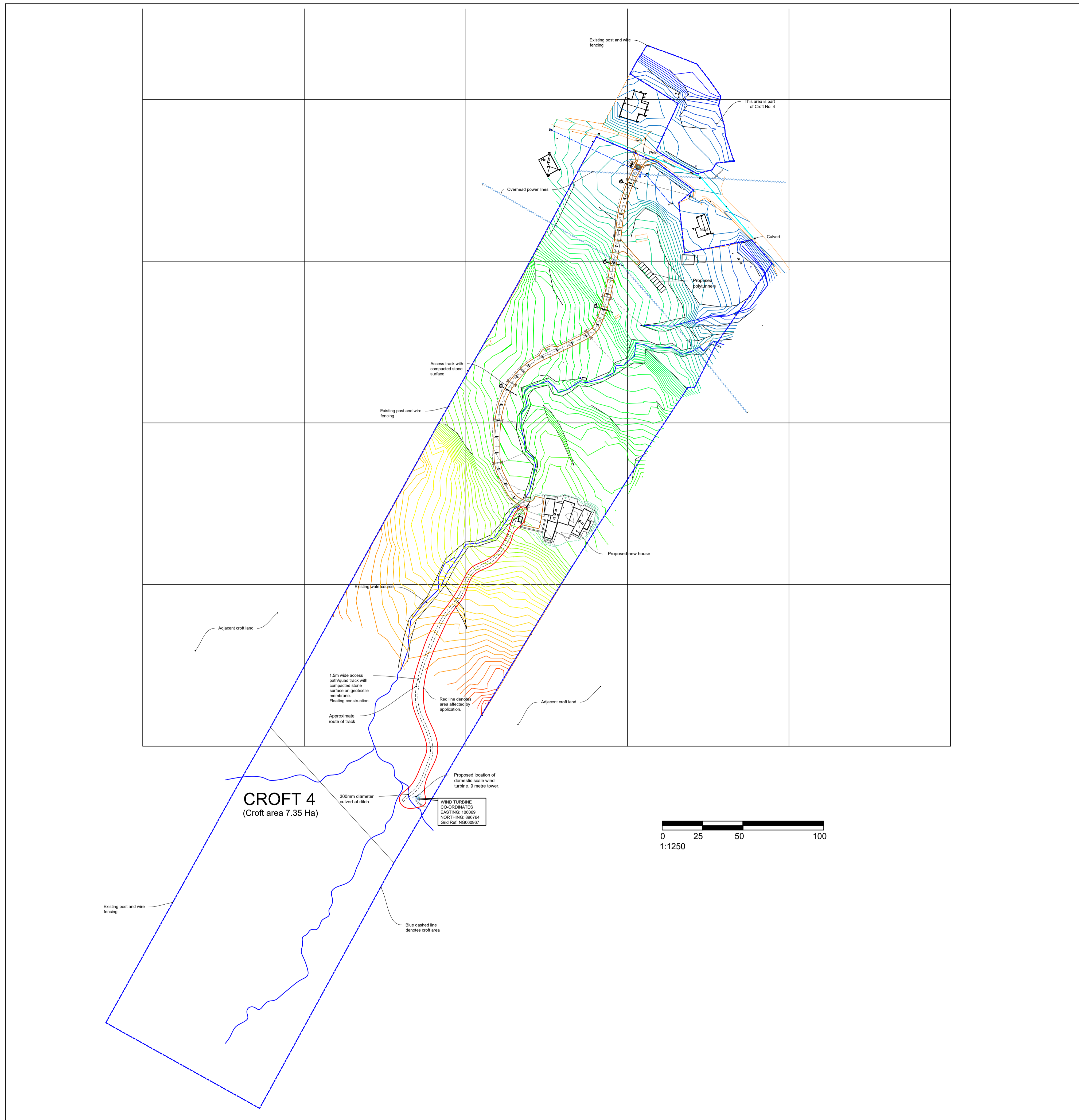
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rev.	date	notes

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INDRANI MUKHERJEE

PROPOSED SITE PLAN
PLANNING

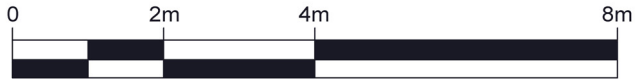
project:	21-15 W
date:	23.09.24
size:	A1
scale:	1:1250 @ A1
drawing:	P-02 W
revision:	

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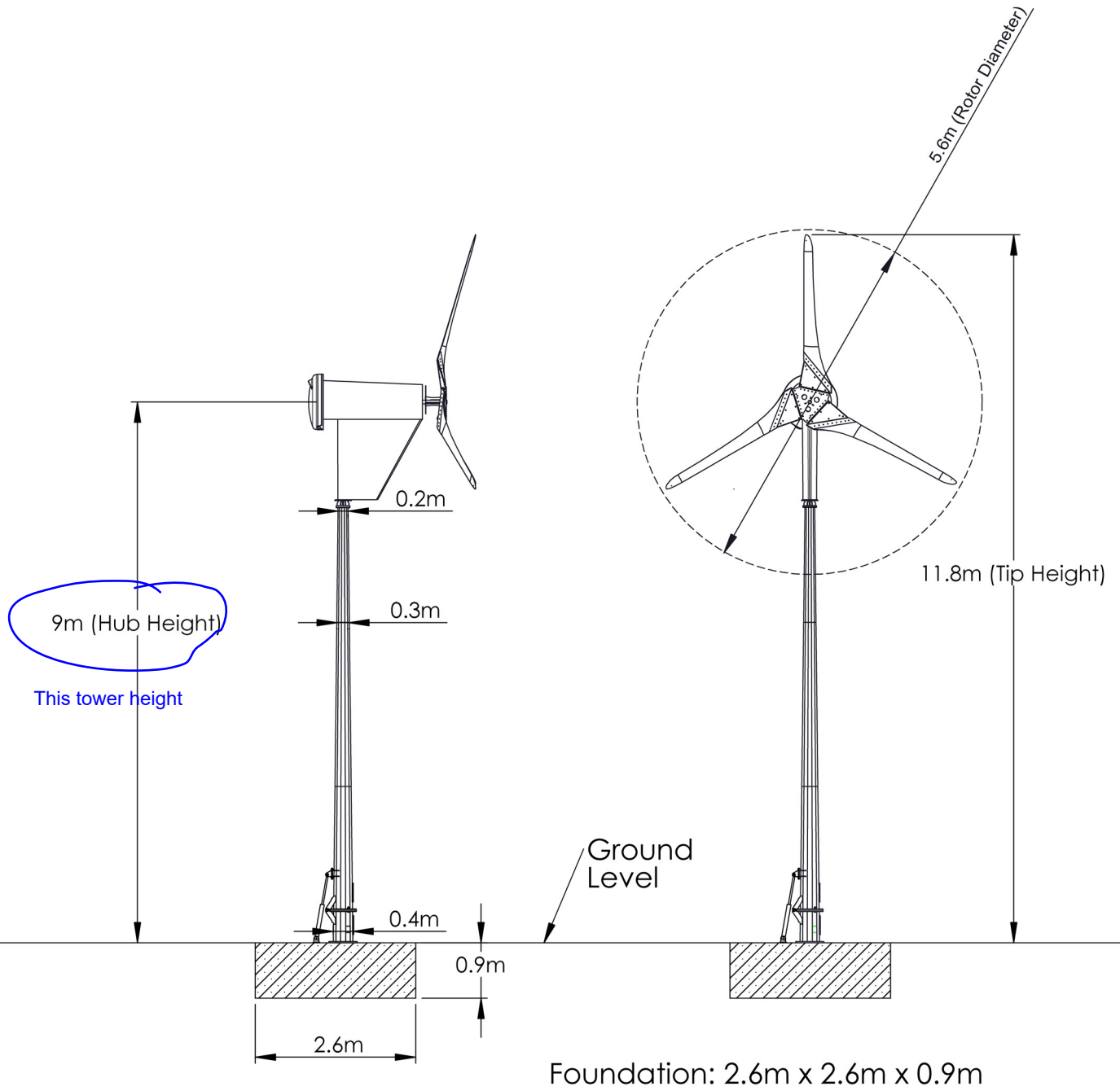
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TITLE:	SD6 9m ARE Tower System		
DWG No:	SDI-06-TW-09-214		
SCALE:	1:100	SHEET SIZE:	A4
DRAWN BY:	CF 26-04-2013	CHECKED BY:	BA 26-04-2013
		REV:	C



COLOUR:
 Tower and Frame: Galvanised Grey
 Covers: Jet Black (RAL9005)
 Light Grey (RAL7035)



SD WIND ENERGY

PLANNING SUPPORT PACK

SD6

ISSUE JULY 2018

Document Number: SDTD057



CONTENTS

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IMPORTANT

This document is intended as an aid to complete planning applications.

It includes product information normally required for planning applications and permits.

For additional information please contact info@sd-windenergy.com

PRODUCT SPECIFICATION

ARCHITECTURE AND ROTOR

Type: Downwind, 360 degrees free yawing
 Speed control: Self-regulating
 Blades: 3 blades, passive coning and pitch control
 Rotor diameter: 5.6m
 Rated speed: 11m/s
 Rotor thrust: 10kN

GENERATOR

Type: Brushless permanent magnet, direct drive
 Output: Grid connect (300v), battery charging (48V)

TOWER

Type: Self-supporting monopole
 Hub height: 9m, 15m & 20m (hydraulic towers)

WEIGHT

Wind turbine: 600kg

PERFORMANCE

Cut-in wind speed: 2.5m/s
 Max wind speed (survival): Designed to Class 1 (70m/s), Tested to Class 2 (59.5m/s)
 Rated Power: 5.2kW (at 11m/s measured at hub height)
 Peak Power: 6.1kW
 RAE: 8,949kWh as certified by TUV NEL
 (at 5m/s measured at hub height)

BUILD MATERIALS AND COLOURS

Frame: Galvanised steel, grey (not visible)
 Towers: Galvanised steel, grey
 Blades: Glass thermoplastic composite, black or light grey
 Covers: Plastic.



Jet Black (RAL9005)



Light Grey (RAL7035)

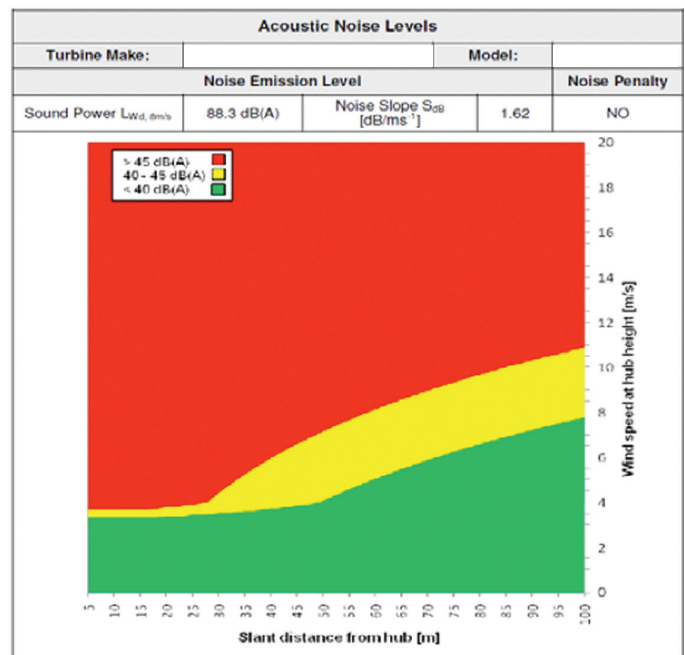
ACOUSTIC DATA

The following noise map is a declaration of the sound power level, including noise slope tested according to BWEA standard (29th Feb 2008) which amends IEC 61400-11 for the purposes of acoustic testing of small wind turbines.

Frequency	Ls (dBA)
63	70.4
125	76.6
250	85.1
500	89.8
1000	91.2
2000	87.8
4000	83.3
8000	75.9

The turbine is not considered tonal

A full report is available upon request from
info@sd-windenergy.com



SITING

Siting and installation of your wind turbine should comply with “Installing small wind-powered electricity generating systems” (CE72) and “Micro-generation Installation Standard” (MIS 3003) which reflect the industry’s best practice.

Energy Saving Trust publication “Installing small wind-powered electricity generating systems” (CE72) can be downloaded from:

<http://www.energysavingtrust.org.uk/Global-Data/Publications/Installing-smallwind-powered-electricity-generating-systems-CE72>

The Micro-generation Certification Scheme publication “Micro-generation Installation Standard” (MIS3003) can be downloaded from:

<http://www.microgenerationcertification.org>

SD Wind Energy recommends that an Accredited Installer should be consulted on site location prior to a planning application being submitted

It is also recommended that potential wind turbine owners consult with their neighbours prior to applying for the necessary planning approvals

TECHNICAL DRAWINGS

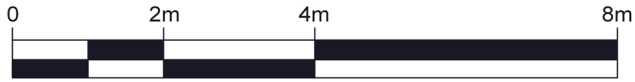
The following technical drawings are scaled elevations for the wind turbines listed below:

[SD6 on 9m Hydraulic Tower](#)

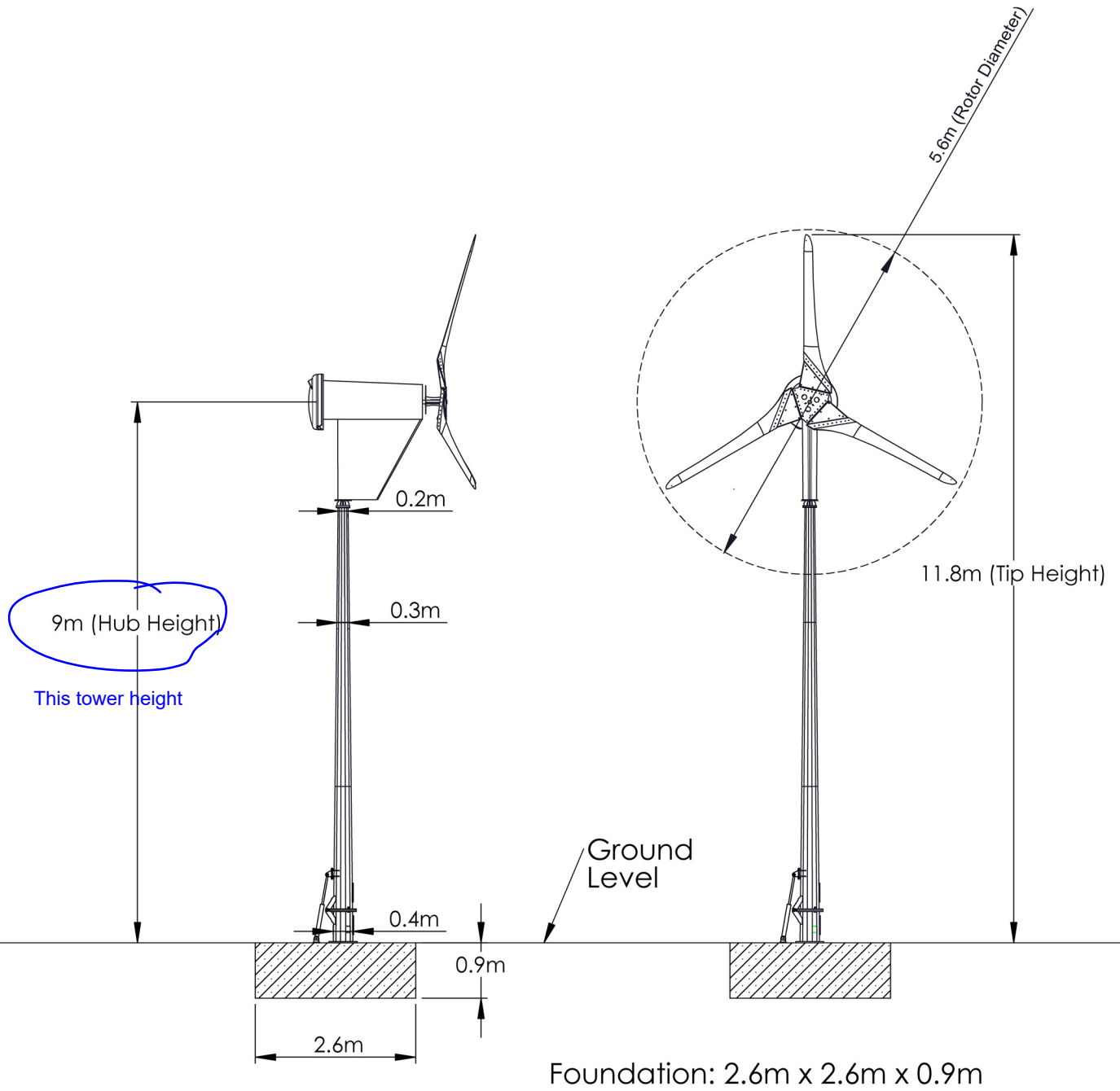
~~[SD6 on 15m Hydraulic Tower](#)~~

~~[SD6 on 20m Hydraulic Tower](#)~~

NB – Please ensure when printing that Page Scaling is set to “None”



NOTE: Document for reference only. Check sheet size and drawing scale before printing. When printing PDF ensure print scale in printer properties is set to off or to none.



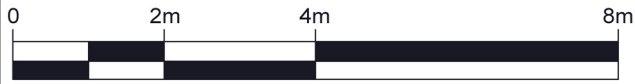
TITLE:	SD6 9m ARE Tower System		
DWG No:	SDI-06-TW-09-214		
SCALE:	1:100	SHEET SIZE:	A4
DRAWN BY:	CF 26-04-2013	CHECKED BY:	BA 26-04-2013
		REV:	C



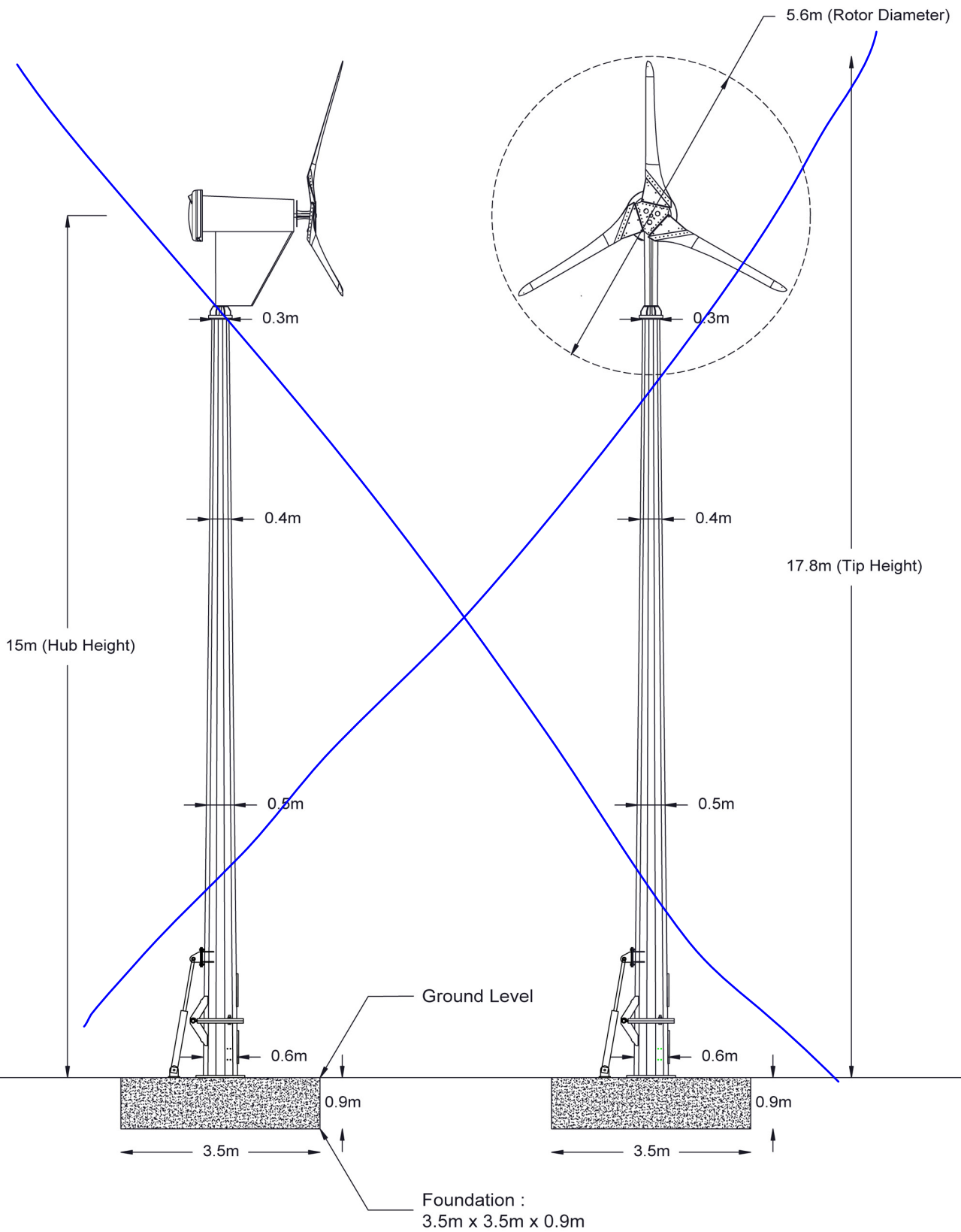
COLOUR:

Tower and Frame: Galvanised Grey

Covers: Jet Black (RAL9005)
Light Grey (RAL7035)



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TITLE:	SD6 15m ARE Tower System		
DWG No:	SDI-06-TW-15-200		
SCALE:	1:100	SHEET SIZE:	A4
DRAWN BY:	CF 26-04-2013	CHECKED BY:	BA 26-04-2013
		REV:	C

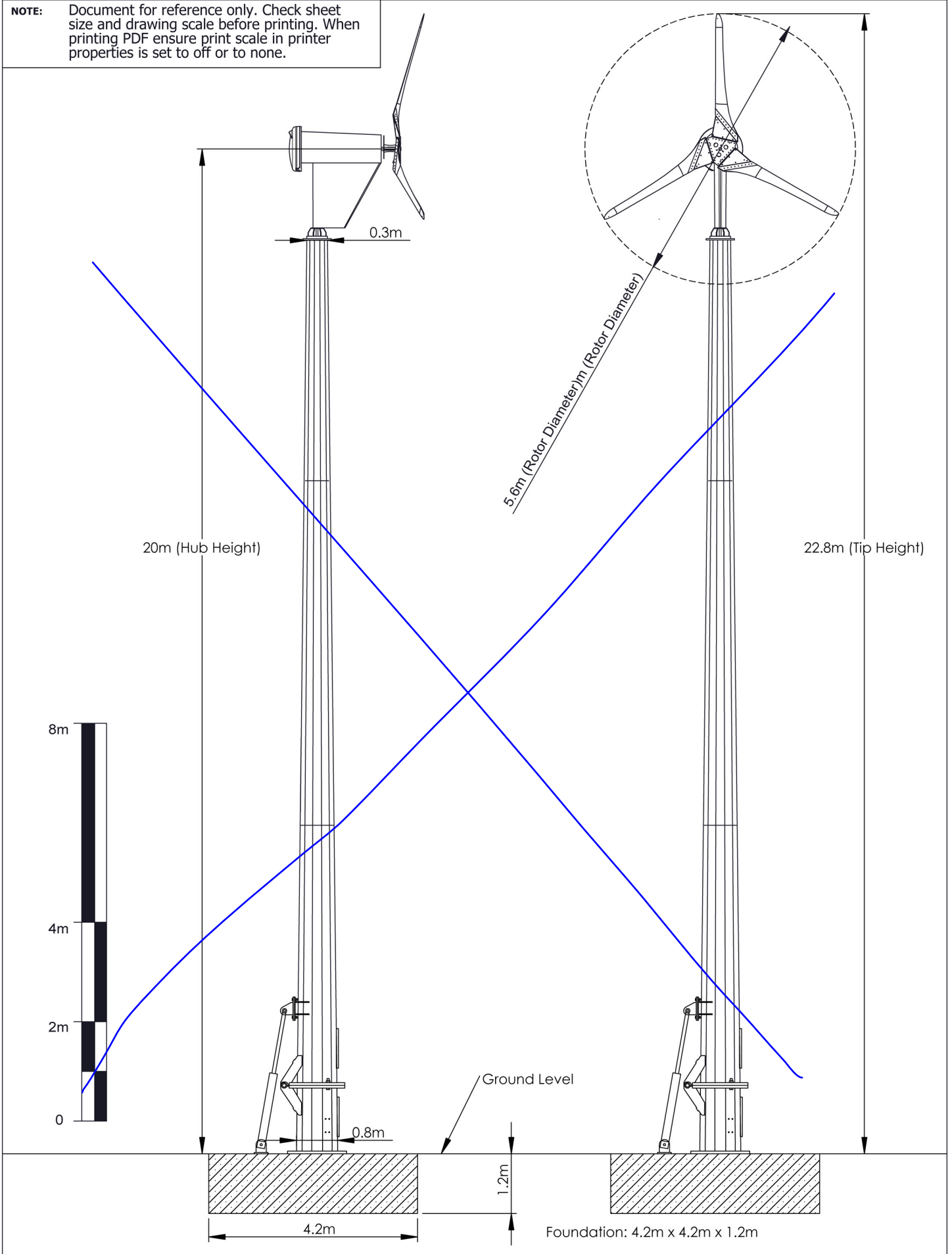


COLOUR:

Tower and Frame: Galvanised Grey

Covers: Jet Black (RAL9005)
Light Grey (RAL7035)

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TITLE:	SD6 20m Tower System		
DWG No:	SDI-06-TW-20-001		
SCALE:	1:100	SHEET SIZE:	A4
DRAWN BY:	RL 15-03-2018	CHECKED BY:	PH 15-03-2018
		REV:	B



COLOUR:	Tower and Frame: Galvanised Grey
	Covers: Jet Black (RAL9005)
	Light Grey (RAL7035)

CONTACT:

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E: info@sd-windenergy.com

W: www.sd-windenergy.com

PERFORMANCE. EXPERTISE. RELIABILITY



SD WIND ENERGY

**WORLD LEADERS
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The SD6 is regarded by many as the turbine of choice and has been one of the World's Best Selling Small Wind Turbines for over 25 years.

Renowned for quality and durability, the SD6 is internationally recognised as a market leader in Small Wind.

Continuous Operation is guaranteed due to the innovative downwind design, incorporating the delta rotor. This unique system uses the latest advances in composite technology, allowing the blades to flex and regulate their speed. This ensures the turbine can continue operating and producing energy during extreme wind conditions when alternative wind turbines need to stop to protect themselves.

Utilising hydraulic towers ensures minimum downtime for service inspections, which are only required at 25,000kWh intervals. This offers customers a low cost of ownership compared to alternative wind turbines on the market.

SD Wind Energy delivers affordable energy security to a wide range of customers. The SD6 is fully certified under the MCS & SWCC schemes, ensuring eligibility for incentive programs.

Our SD6+ turbine is a 6KW turbine that can reach 9kW in high wind speeds, mounted onto either a 9m, 15m or 20m gin pole or hydraulic tower which can be set in either a fixed concrete base, or above ground base. The SD6+ turbine follows the SD6 power curve up to a point, then exponentially increases in high wind speeds. This is due to additional copper winding included in the generator. The design of the SD6+ is otherwise the same as the SD6 wind turbine.

SD6 + Product Specification

Rated Power	6.0kW @ 11m/s
Applications	Agricultural, Domestic, Remote Islands, Utility, Telco
Solutions	Grid Tied & Battery Charge, 48V, 300V
Architecture	Downwind, 3 Bladed, Self Regulating
Rotor	5.6m Diameter
Swept area (m2)	24.6m2
Blade Material	Glass Thermoplastic Composite
Head Weight	550kg
Generator	Brushless Direct Drive Permanent Magnet
Tower Height Options	9m / 15m / 20m Taperfit Monopole – Hydraulic or Gin Pole
Tower Specification	Class 1 Rated / Galvanised Steel
Foundation Options	Pad / Root / Rock Anchor
Cut In Speed	2.5m/s
Cut Out Speed	None - Continuous Operation
Survival Wind Speed	Designed to Class 1 (70m/s)
Warranty	5 Years
Cold Climate Options	Available on Request
Colour Options	Light Grey (RAL7035) Black (RAL9005)



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APPROVED PRODUCT

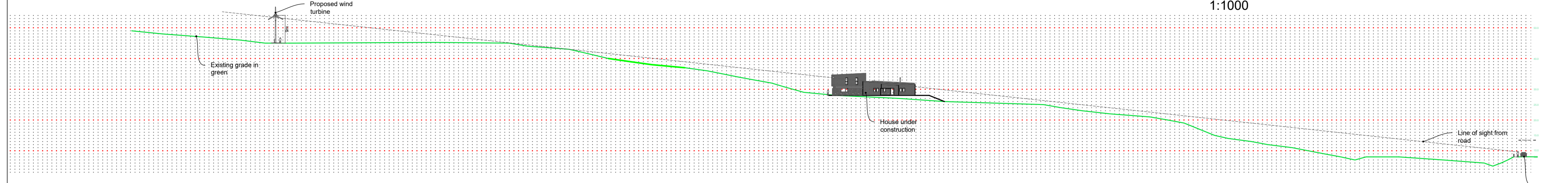
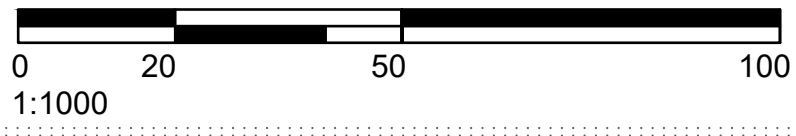




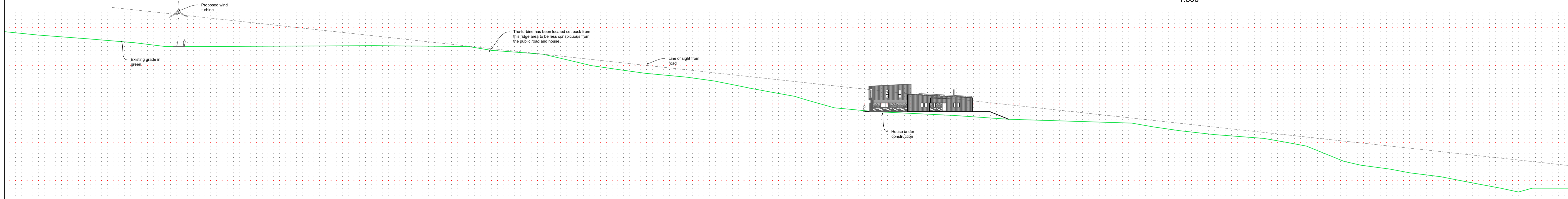
SD6+ Power Curve		
MPH	M/S	Power (kW)
1	0.45	0
2	0.89	0
3	1.34	0
4	1.79	0
5	2.24	0
6	2.68	0.01
7	3.13	0.05
8	3.58	0.17
9	4.02	0.17
10	4.47	0.3
11	4.92	0.48
12	5.36	0.51
13	5.81	0.62
14	6.26	1.03
15	6.71	1.45
16	7.15	1.67
17	7.60	1.88
18	8.05	2.68
19	8.49	2.98
20	8.94	3.6

SD6+ Power Curve		
MPH	M/S	Power (kW)
21	9.39	4.5
22	9.83	4.9
23	10.28	5.5
24	10.73	6.0
25	11.18	6.3
26	11.62	6.6
27	12.07	6.9
28	12.52	7.1
29	12.96	7.3
30	13.41	7.6
40	17.88	7.9
50	22.35	8.1
60	26.82	8.3
70	31.29	8.6
80	35.76	8.9
90	40.23	9
100	44.70	9
110	49.17	9
120	53.64	9

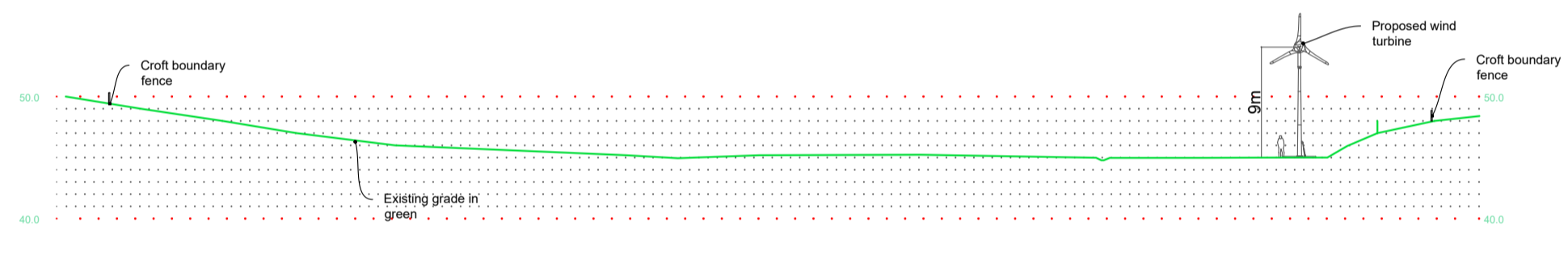
The power curve values tabled above are representative of the wind power output produced using an SD6+ turbine with a specific inverter set up. Actual output is dependent on several factors including turbine siting and inverter type and setup.



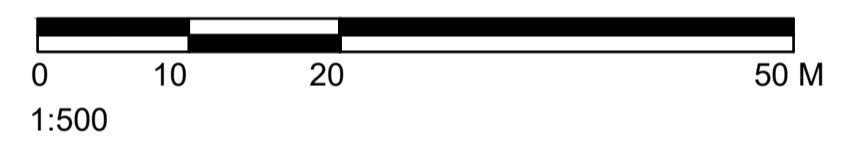
1 PROPOSED NE-SW SECTION (A-A) -Up and down croft
1:1000



2 PROPOSED NE-SW SECTION -Upper Part
1:500



3 PROPOSED NW-SE (B-B) SECTION -Across croft
1:500



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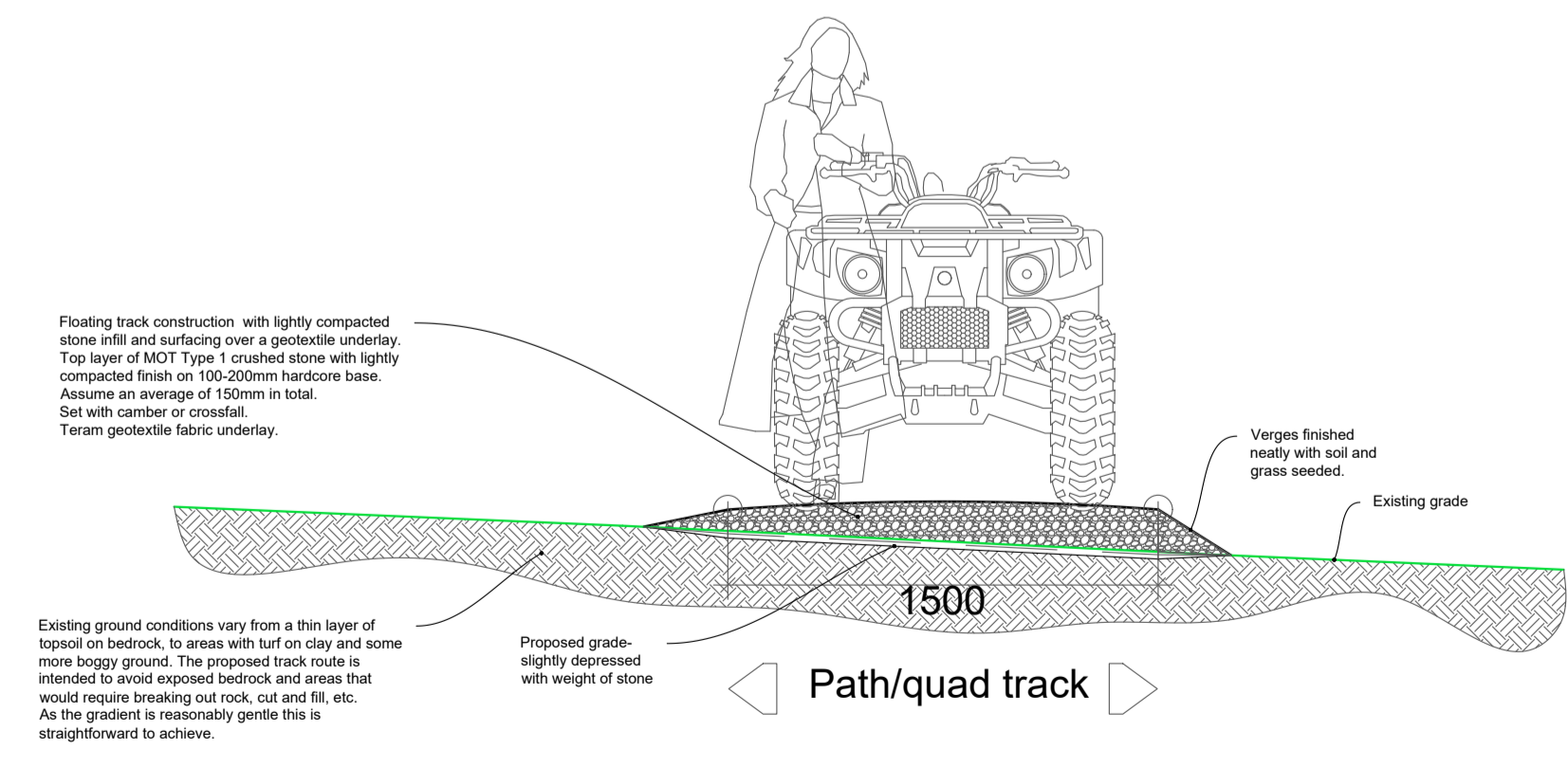
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PROPOSED SITE PLAN
PLANNING

project:	21-15 W
date:	09.10.24
size:	A1
scale:	As Indicated @ A1
drawing:	P-03 W
revision:	

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Fiona Porteous e: fwaporteous@aol.com m: 07766 727039

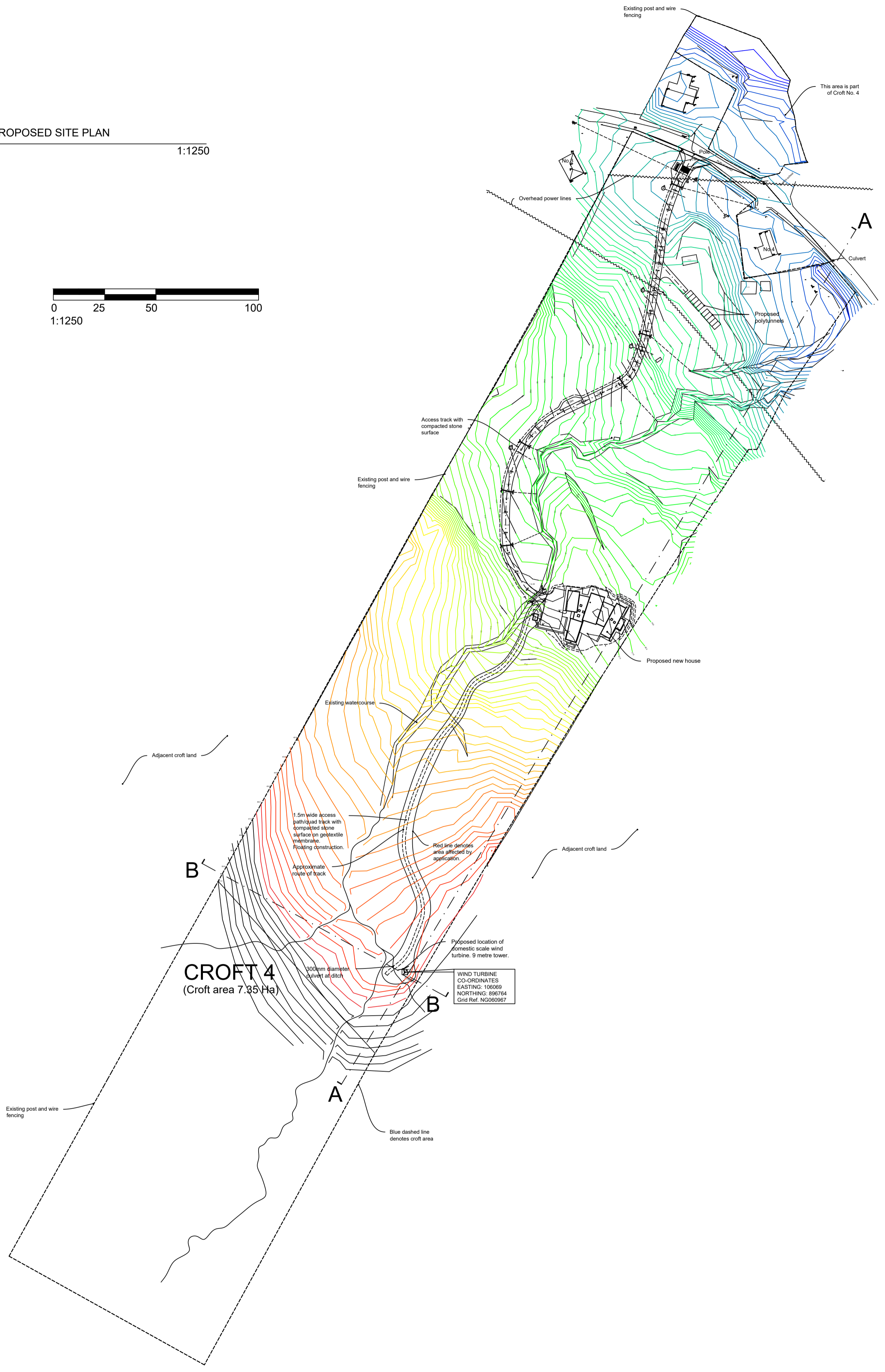
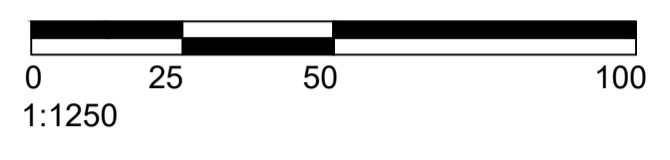
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2 PROPOSED TRACK - TYPICAL CROSS SECTION .
1:25



1 PROPOSED SITE PLAN 1:1250



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A	09.10.24	Added section lines and additional contour lines.

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