

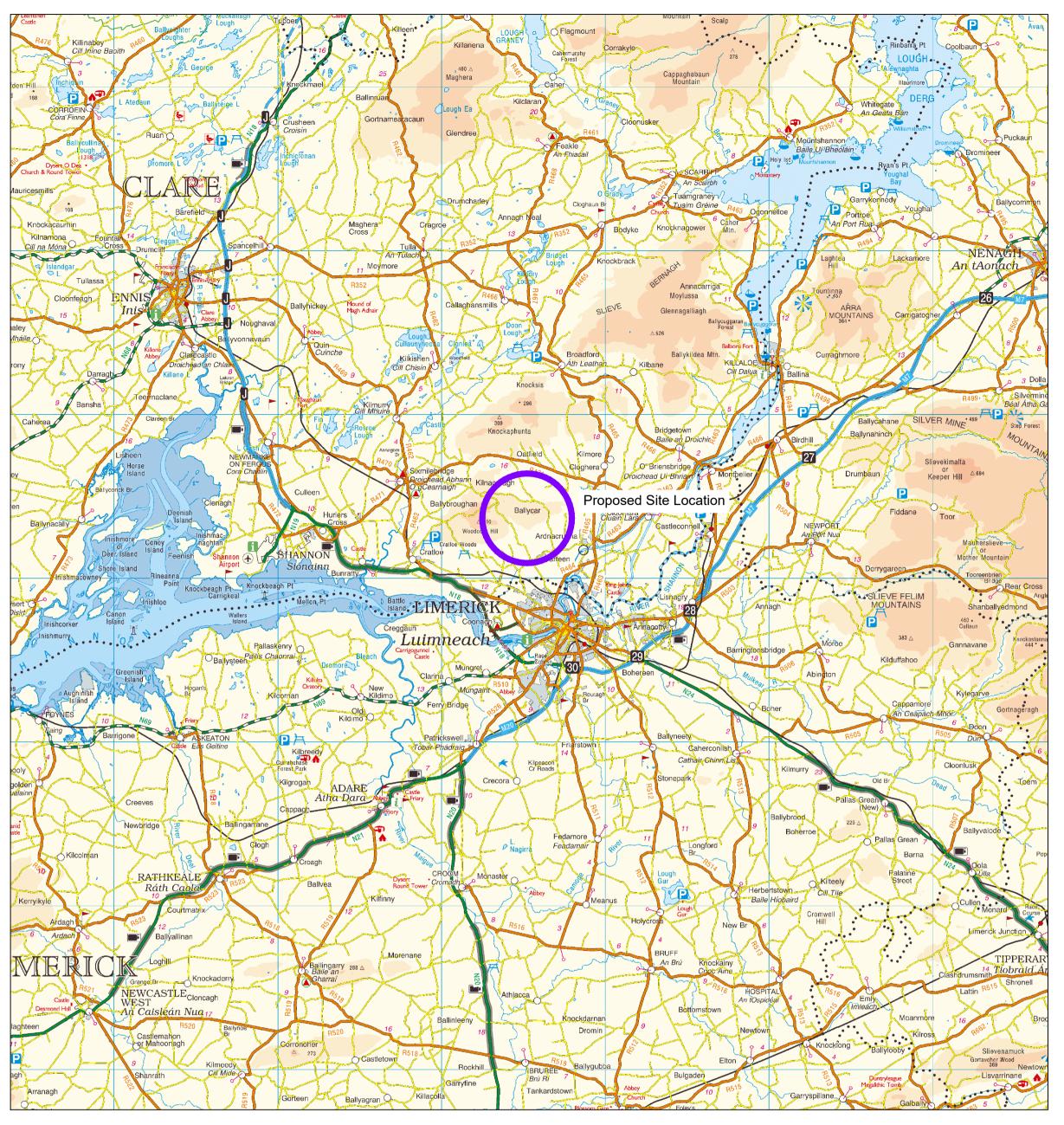
Drawing Number	Drawing Title	Drawing Size
22156-MWP-00-00-DR-C-5001	Site Context Map	A1
22156-MWP-00-00-DR-C-5002	Planning Application and Landholding Boundary	A0
22156-MWP-00-00-DR-C-5003	Planning Application Boundary	A0
22156-MWP-00-00-DR-C-5004	Existing Contours	A0
22156-MWP-00-00-DR-C-5005	Site Layout - Master Sheet	A0
22156-MWP-01-00-DR-C-5005	Site Layout - Sheet 1	A1
22156-MWP-02-00-DR-C-5005	Site Layout - Sheet 2	A1
22156-MWP-03-00-DR-C-5005	Site Layout - Sheet 3	A1
22156-MWP-04-00-DR-C-5005	Site Layout - Sheet 4	A1
22156-MWP-05-00-DR-C-5005	Site Layout - Sheet 5	A1
22156-MWP-06-00-DR-C-5005	Site Layout - Sheet 6	A1
22156-MWP-07-00-DR-C-5005	Site Layout - Sheet 7	A1
22156-MWP-08-00-DR-C-5005	Site Layout - Sheet 8	A1
22156-MWP-09-00-DR-C-5005	Site Layout - Sheet 9	A1
22156-MWP-10-00-DR-C-5005	Site Layout - Sheet 10	A1
22156-MWP-11-00-DR-C-5005	Site Layout - Sheet 11	A1
22156-MWP-00-00-DR-C-5006	Drainage Layout - Master Sheet	A0
22156-MWP-01-00-DR-C-5006	Drainage Layout - Sheet 1	A1
22156-MWP-02-00-DR-C-5006	Drainage Layout - Sheet 2	A1
22156-MWP-03-00-DR-C-5006	Drainage Layout - Sheet 3	A1
22156-MWP-04-00-DR-C-5006	Drainage Layout - Sheet 4	A1
22156-MWP-05-00-DR-C-5006	Drainage Layout - Sheet 5	A1
22156-MWP-06-00-DR-C-5006	Drainage Layout - Sheet 6	A1
22156-MWP-07-00-DR-C-5006	Drainage Layout - Sheet 7	A1
22156-MWP-08-00-DR-C-5006	Drainage Layout - Sheet 8	A1
22156-MWP-09-00-DR-C-5006	Drainage Layout - Sheet 9	A1
22156-MWP-10-00-DR-C-5006	Drainage Layout - Sheet 10	A1
22156-MWP-11-00-DR-C-5006	Drainage Layout - Sheet 11	A1
22156-MWP-00-00-DR-C-5007	Site Access Layout and Sight Distances - Sheet 1	A1
22156-MWP-00-00-DR-C-5008	Site Access Layout and Sight Distances - Sheet 2	A1
22156-MWP-00-00-DR-C-5009	Turbine Delivery Route	A1
22156-MWP-00-00-DR-C-5010	Revegetation of Temporary Works Areas	A1
22156-MWP-00-00-DR-C-5401	Turbine Elevations Details	A1
22156-MWP-00-00-DR-C-5402	Turbine Foundation Details	A1
22156-MWP-00-00-DR-C-5403	Turbine Hardstand Details	A1



Drawing Number	Drawing Title	Drawing Size
22156-MWP-00-00-DR-C-5404	Met Mast Details	A1
22156-MWP-00-00-DR-C-5405	Access Track Details	A1
22156-MWP-00-00-DR-C-5406	Drainage Details	A1
22156-MWP-00-00-DR-C-5407	Cable Trench Details	A1
22156-MWP-00-00-DR-C-5408	Temporary Site Construction Compound Layout and Building Details	A1
22156-MWP-00-00-DR-C-5409	Entrance Gate Details	A3
22156-MWP-00-00-DR-C-5410	Timber Post and Rail Details	A3
22156-MWP-00-00-DR-C-5411	Borrow Pit / Material Storage Area Plan and Sections	A1
22156-MWP-00-00-DR-C-5412	Watercourse Crossing Details	A1
05923-DR-100	Overall Site Location Map	A1
05923-DR-101	Site Layout Plan	A1
05923-DR-107	End Mast Details	A2
05923-DR-108	Elevation View of Proposed Tower Locations	A1
05923-DR-110	Typical Ducting Through Regional/Local Roadways	A1
05923-DR-111	Ducting Through Forestry Track	A3
05923-DR-112	Typical Section Through Private Lands	A3
05923-DR-113	Typical 110kV Ducting Through Existing Floating Track	A1
05923-DR-115	Forestry Fire-Break Track Section	A3
05923-DR-116	Typical Communications Chamber Details	A3
05923-DR-117	Typical Earth Link Chamber Details	A3
05923-DR-118	Typical Transition Chamber Details	A3
05923-DR-119	Joint Bay Section Detail	A2
05923-DR-120	110kV Joint Bay General Arrangement and Details	A1
05923-DR-121	Typical Section Through Ducting in Flat Formation	A3
05923-DR-130	Substation Compound Layout	A1
05923-DR-131	Substation Elevations	A1
05923-DR-132	Control Building - Plan & Elevations & Section	A1
05923-DR-133	IPP Building - Plan & Elevations & Section	A1
05923-DR-134	Lightning Monopole Foundation Details 18m Masts	A3



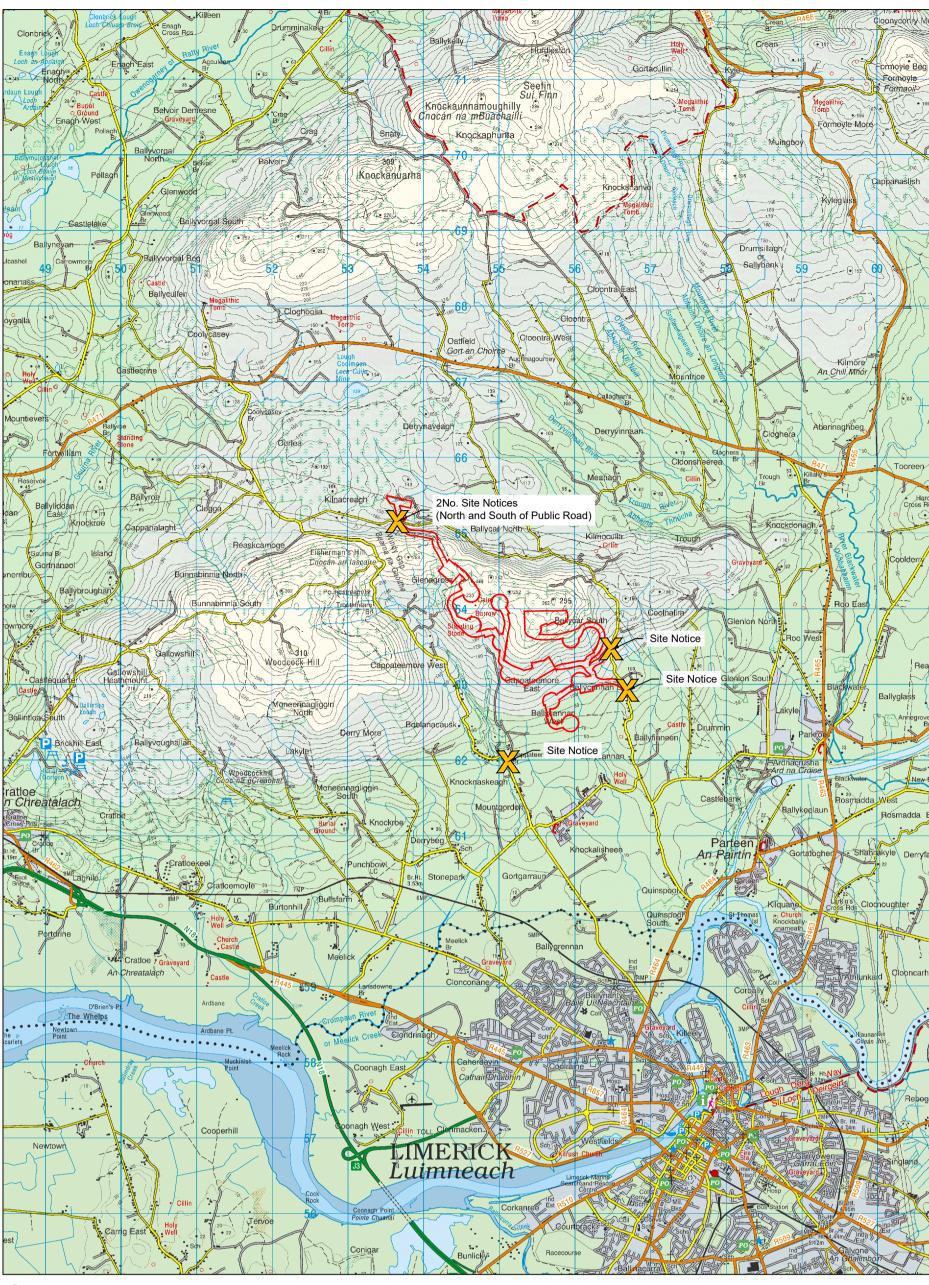
Drawing Number	Drawing Title	Drawing Size
05923-DR-135	Gate & Fence Details	A2
05923-DR-136	Substation Compound Drainage, Retention Seperator Tank, Foul Water Holding Tank Details	A2
05923-DR-137	Telecoms Pole Elevation View	A3
05923-DR-138	Rain Water Harvesting Tank & Vent Details	A1
05923-DR-139	Cut & Fill Layout Plan	A1
05923-DR-140	Substation Site Sections	A1
05923-DR-141	Autotrack Layout Plan	A1
05923-DR-142	Substation Compound Details	A2



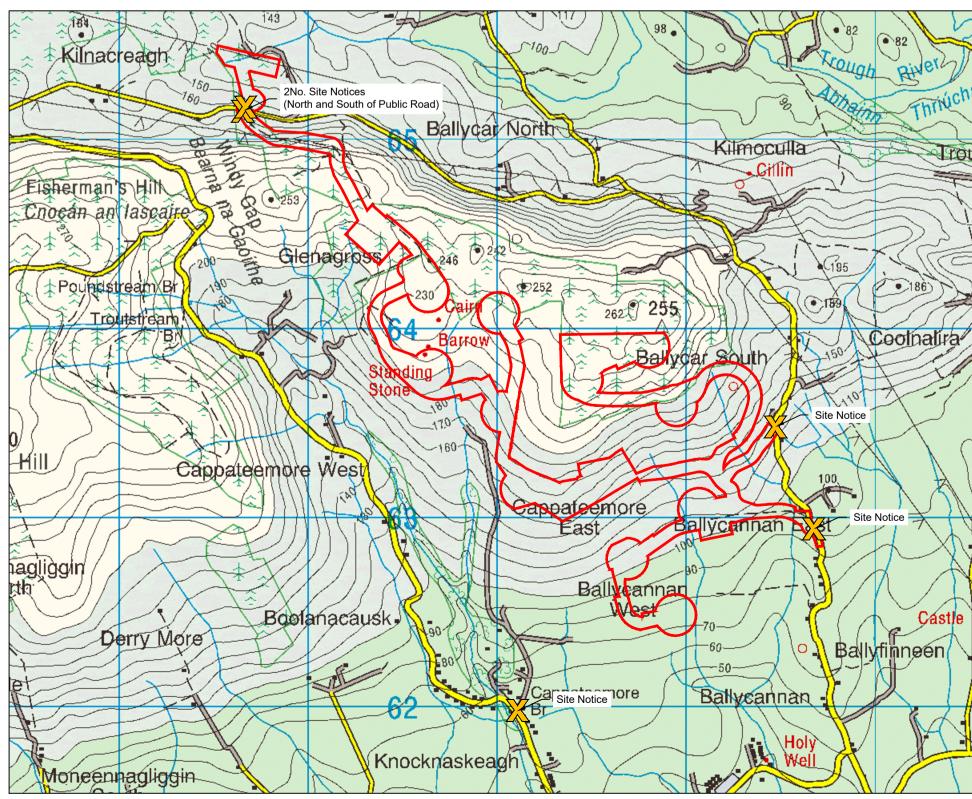
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Site Location Map Of Ireland Not to Scale



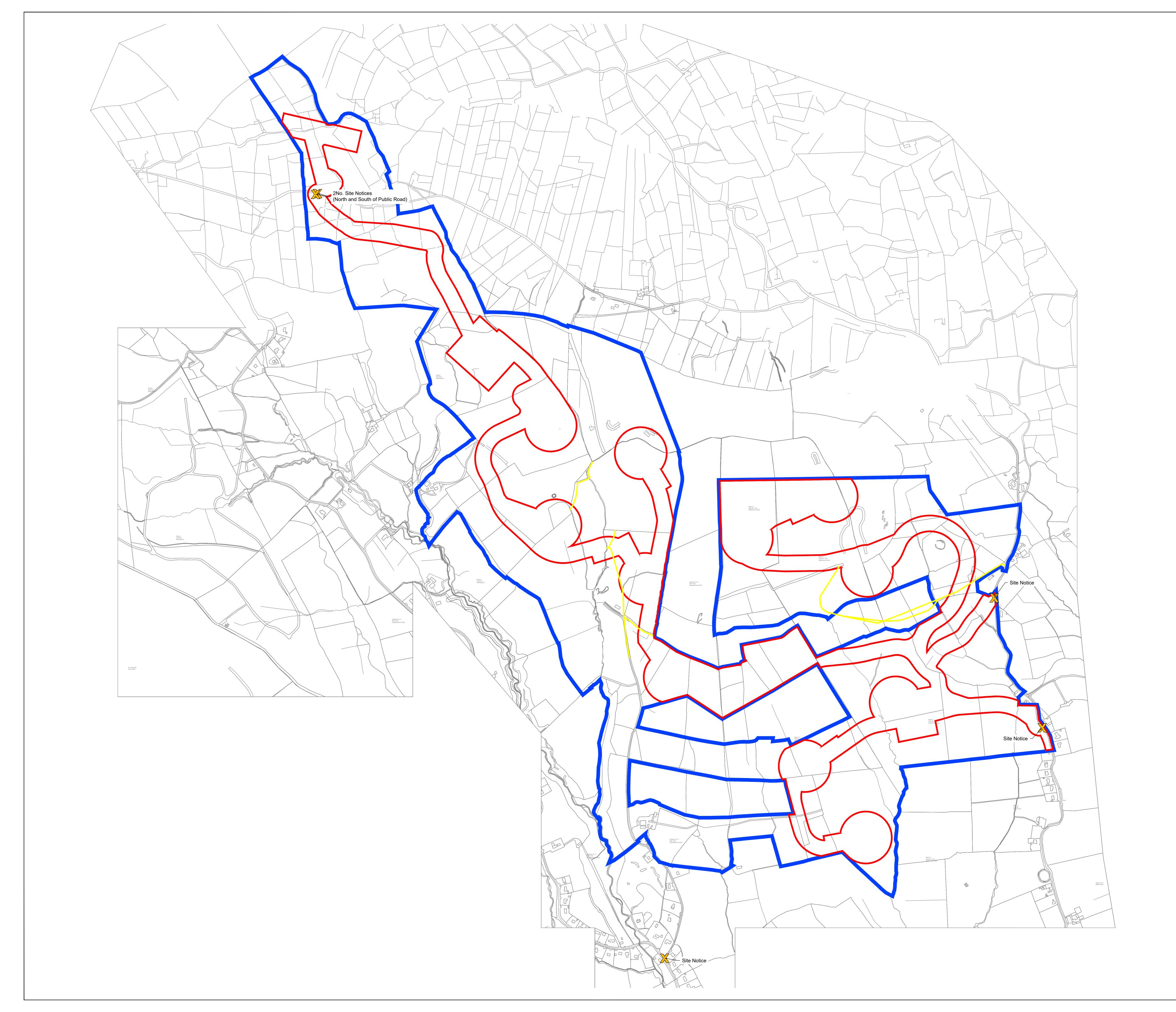
Site Location Scale 1:50,000



Site Location Scale 1:20,000

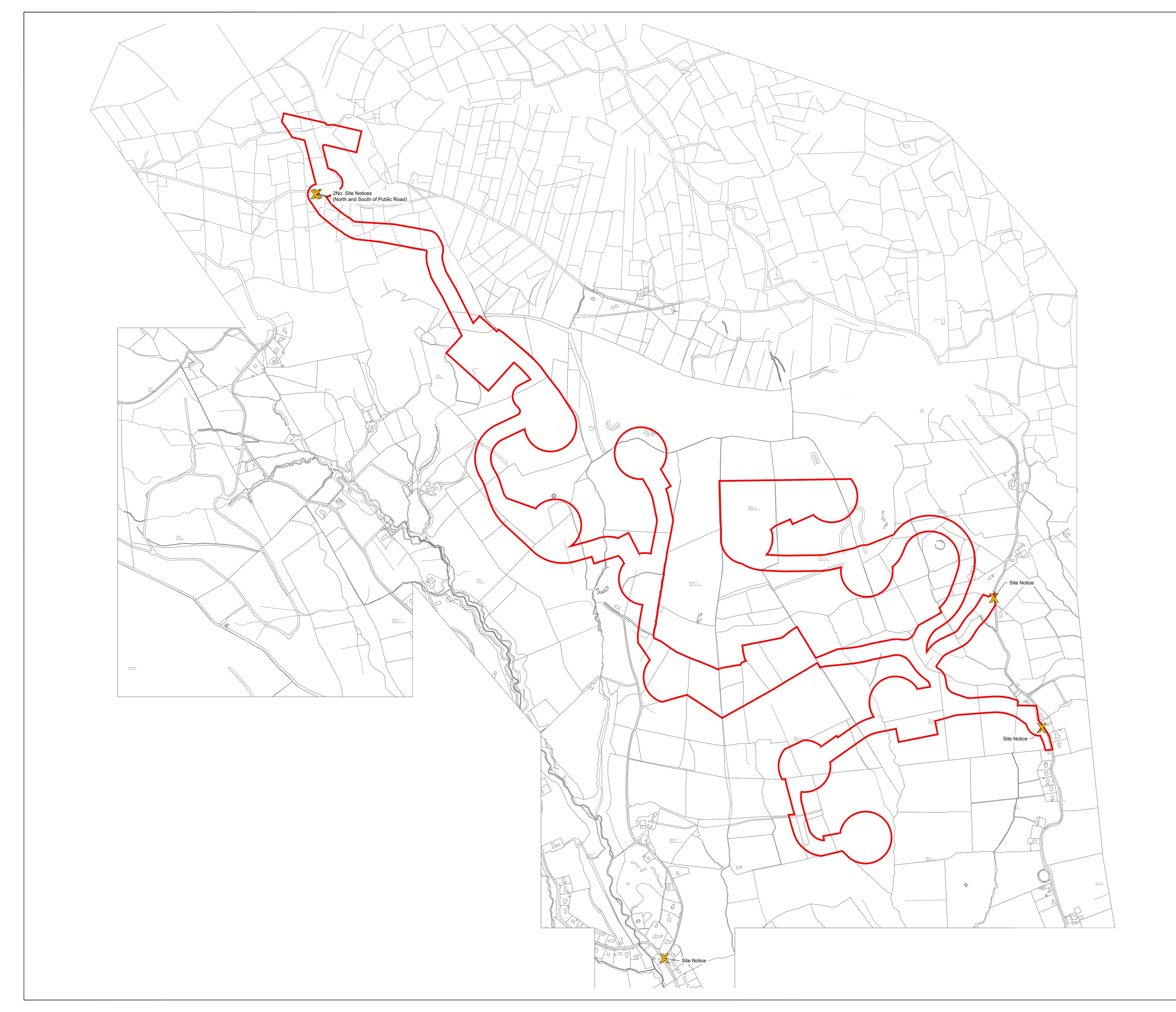


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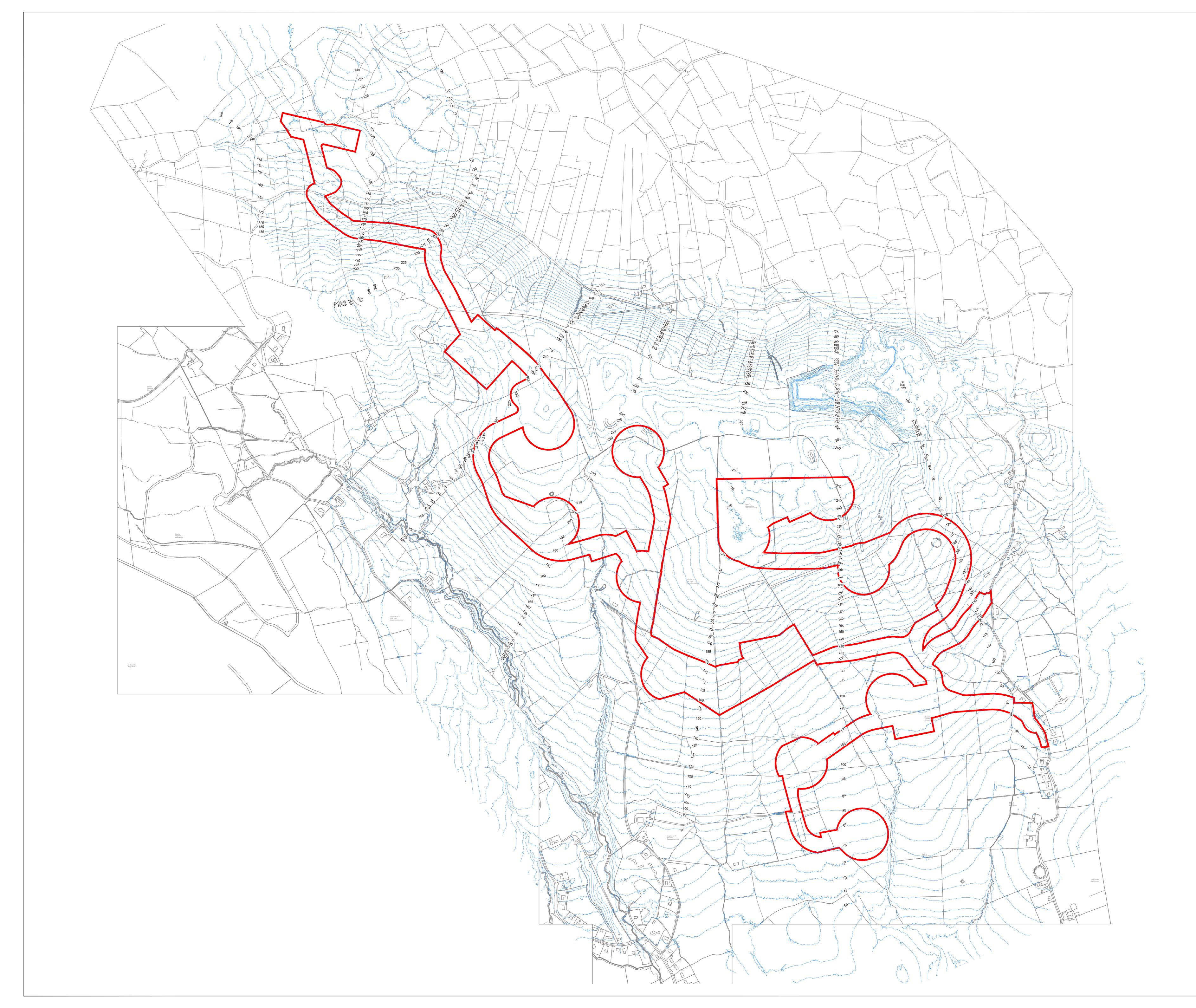


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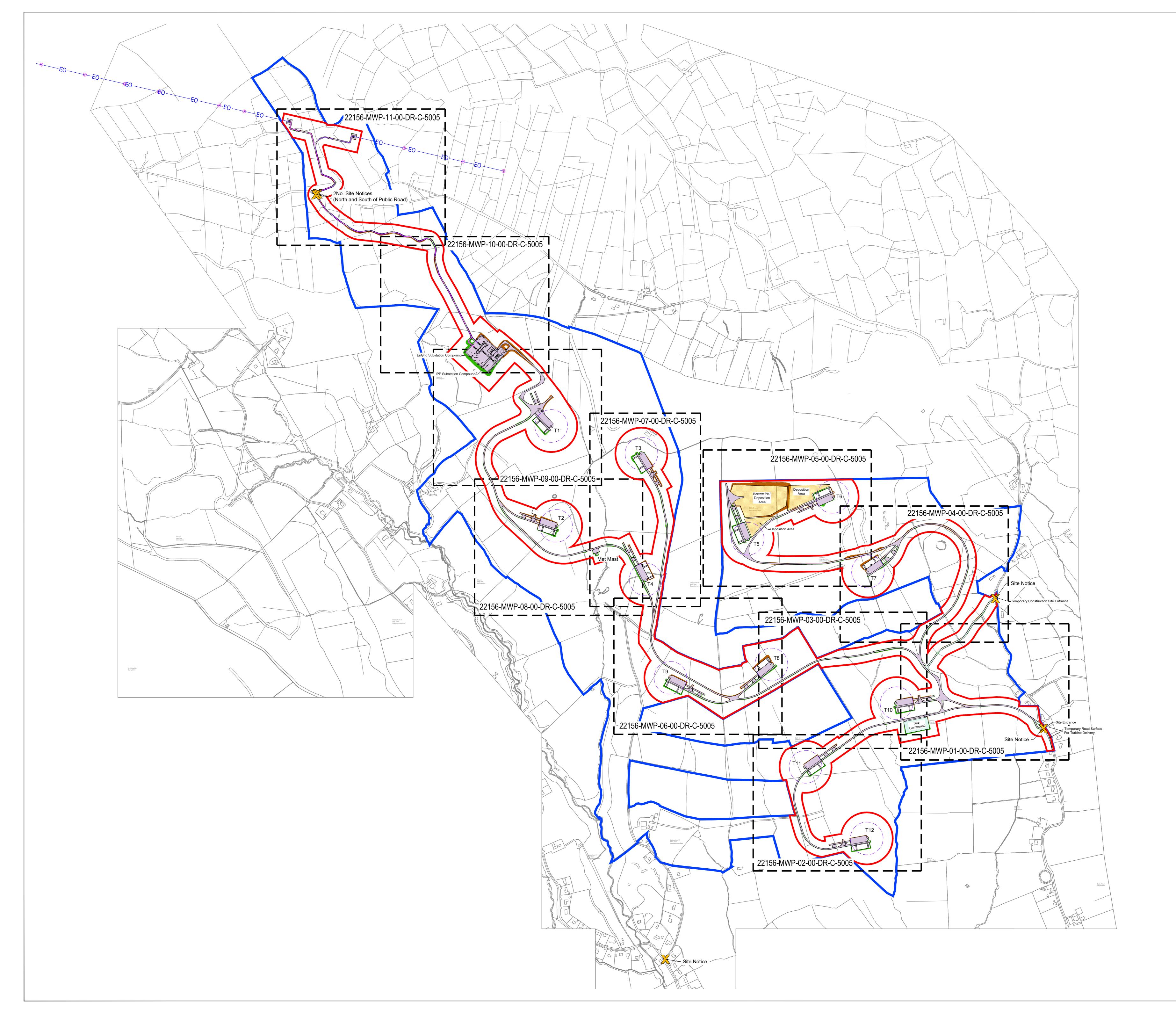


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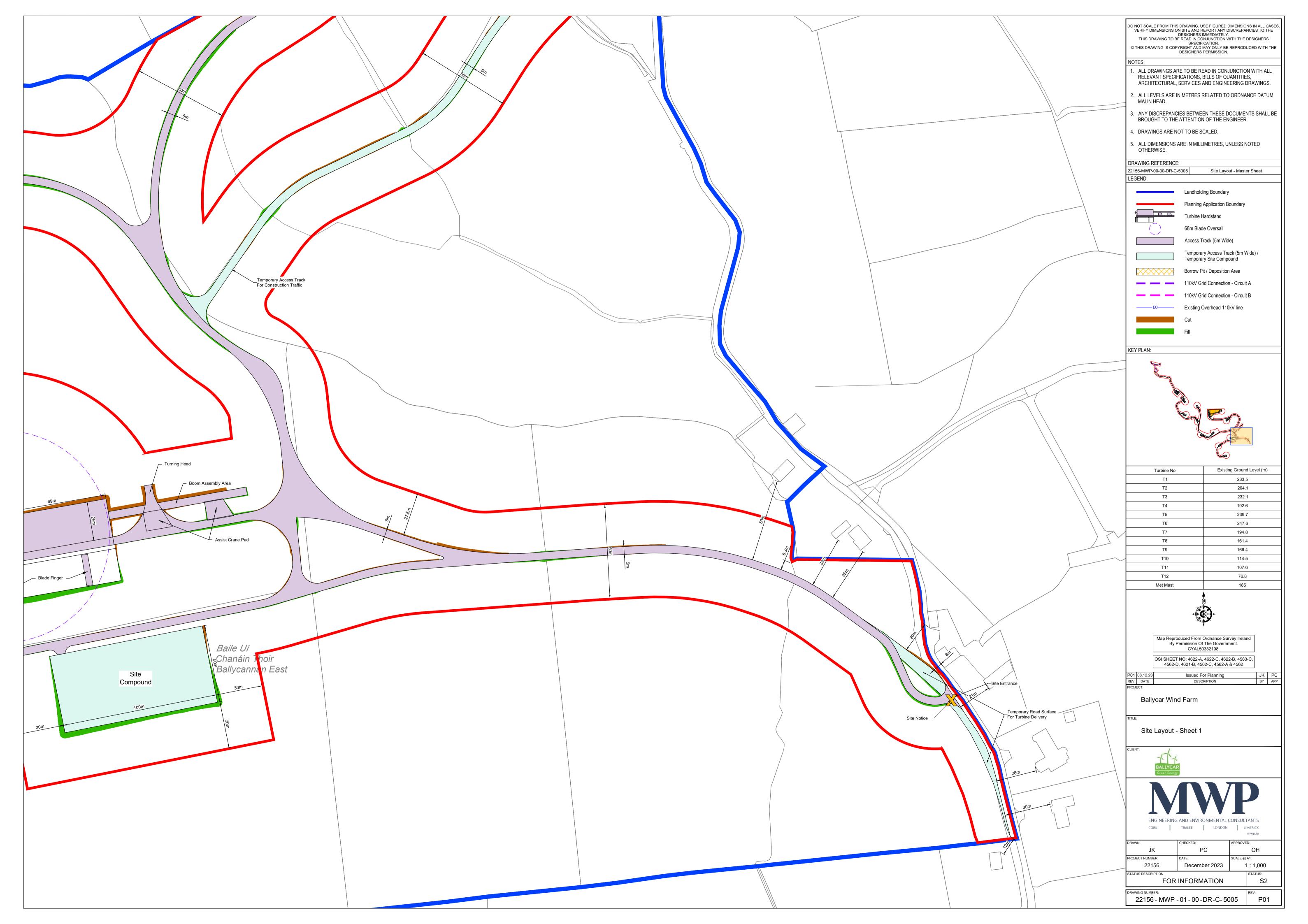


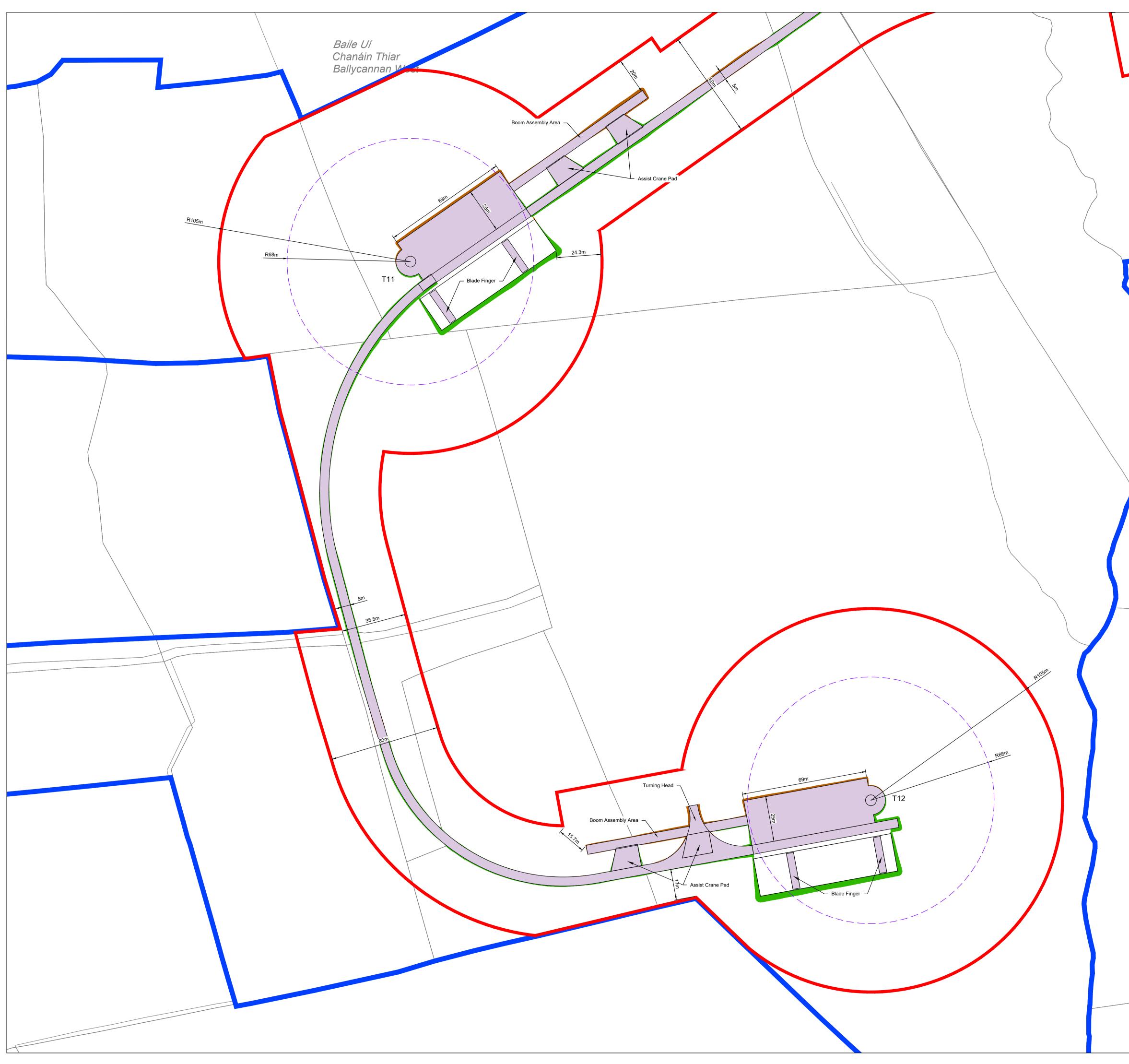
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PROJECT: Ballycar Wind Farm				
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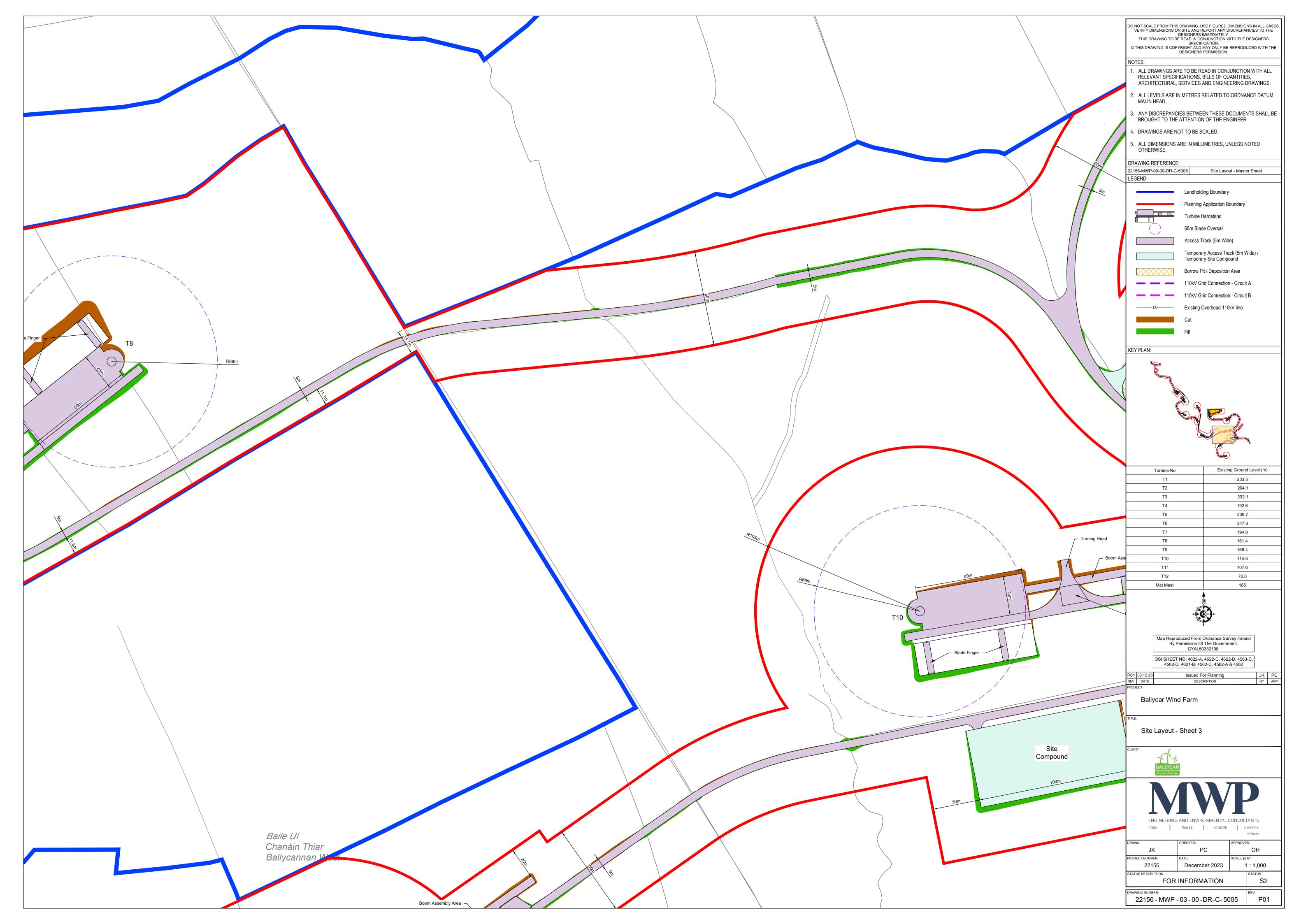


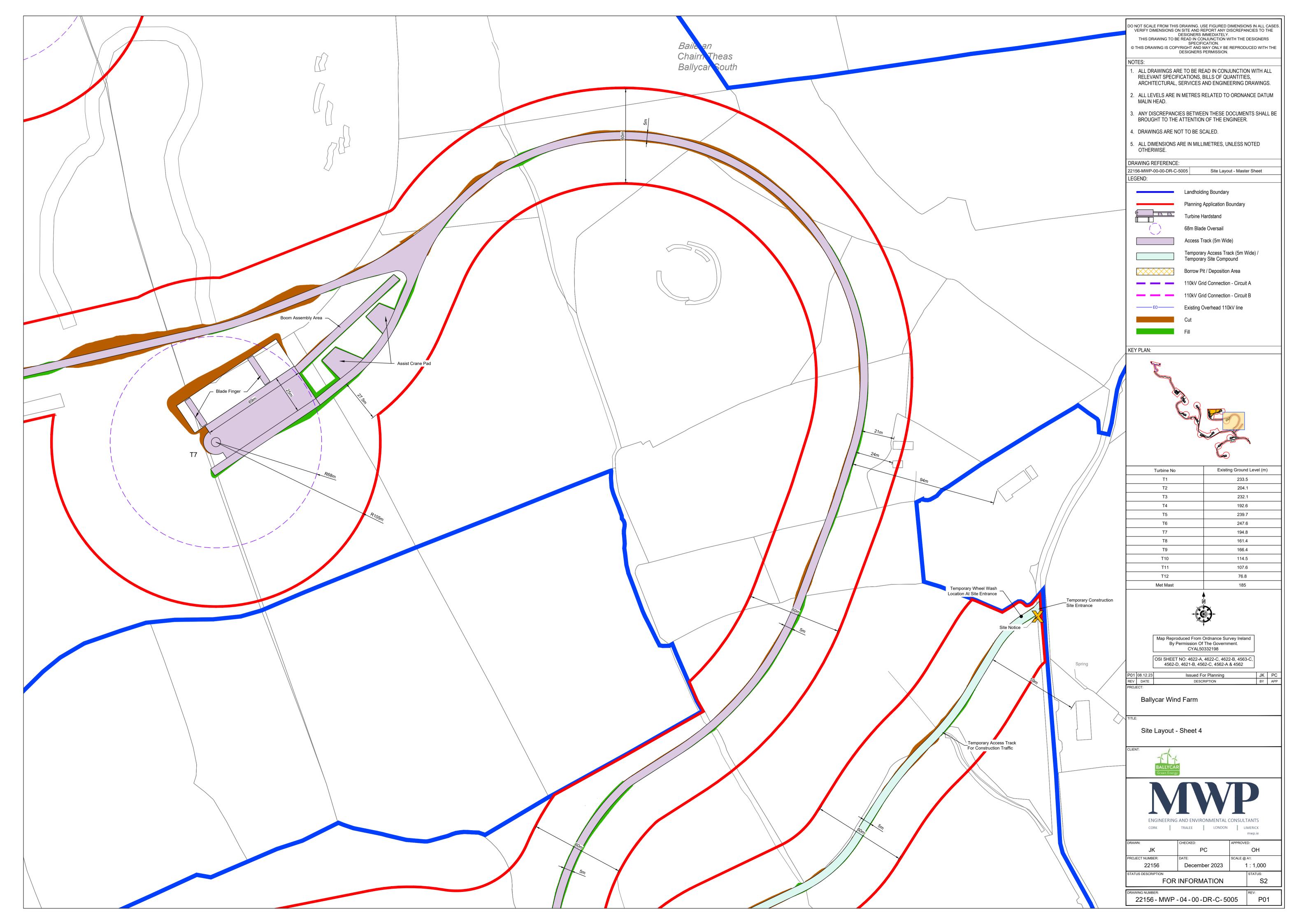
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T1 T2 T3	2	33.5 204.1 232.1
T4 T5	1	92.6 39.7
T6 T7 T8	1	47.6 94.8 61.4
Т9 Т10	1	66.4 14.5
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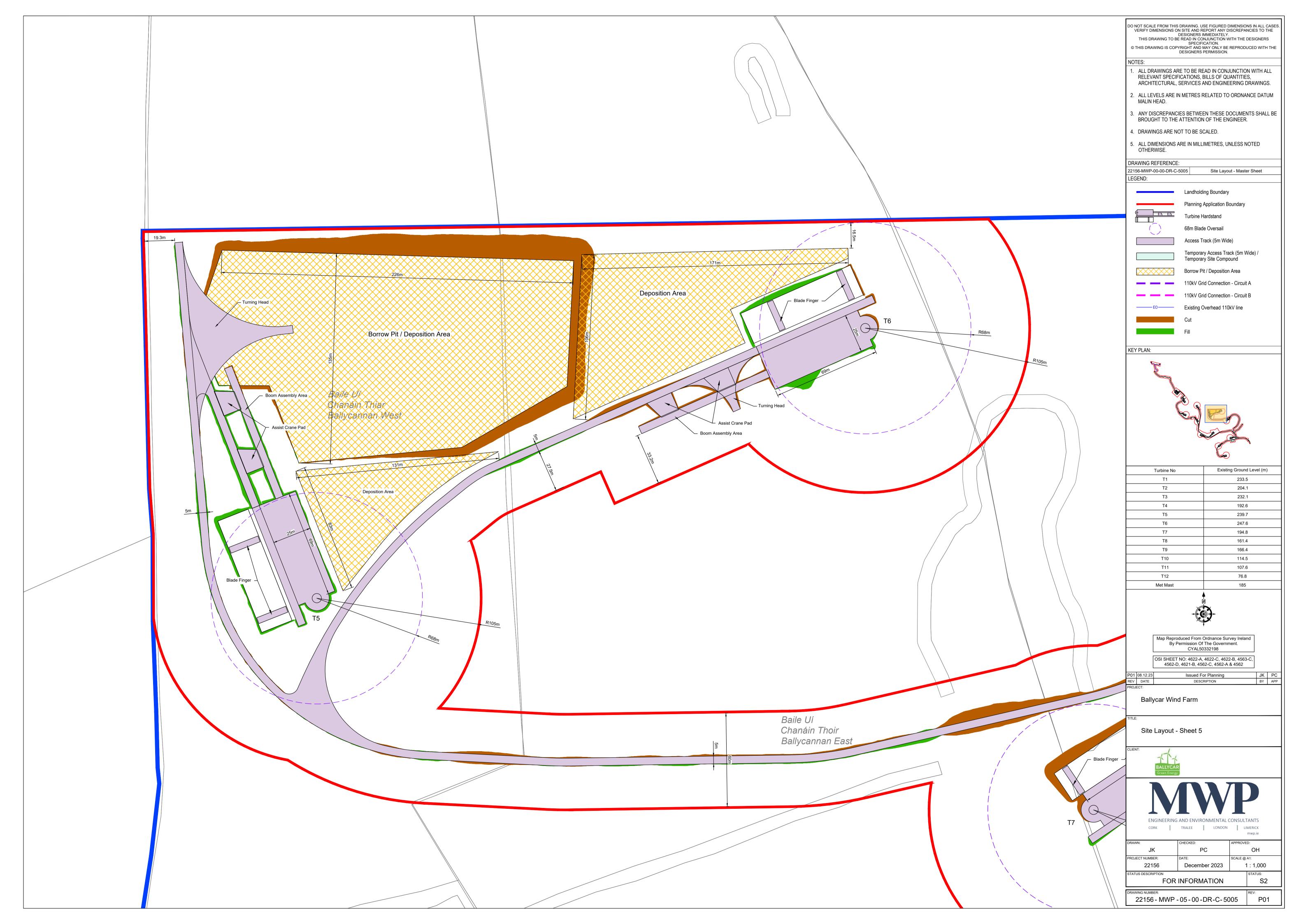




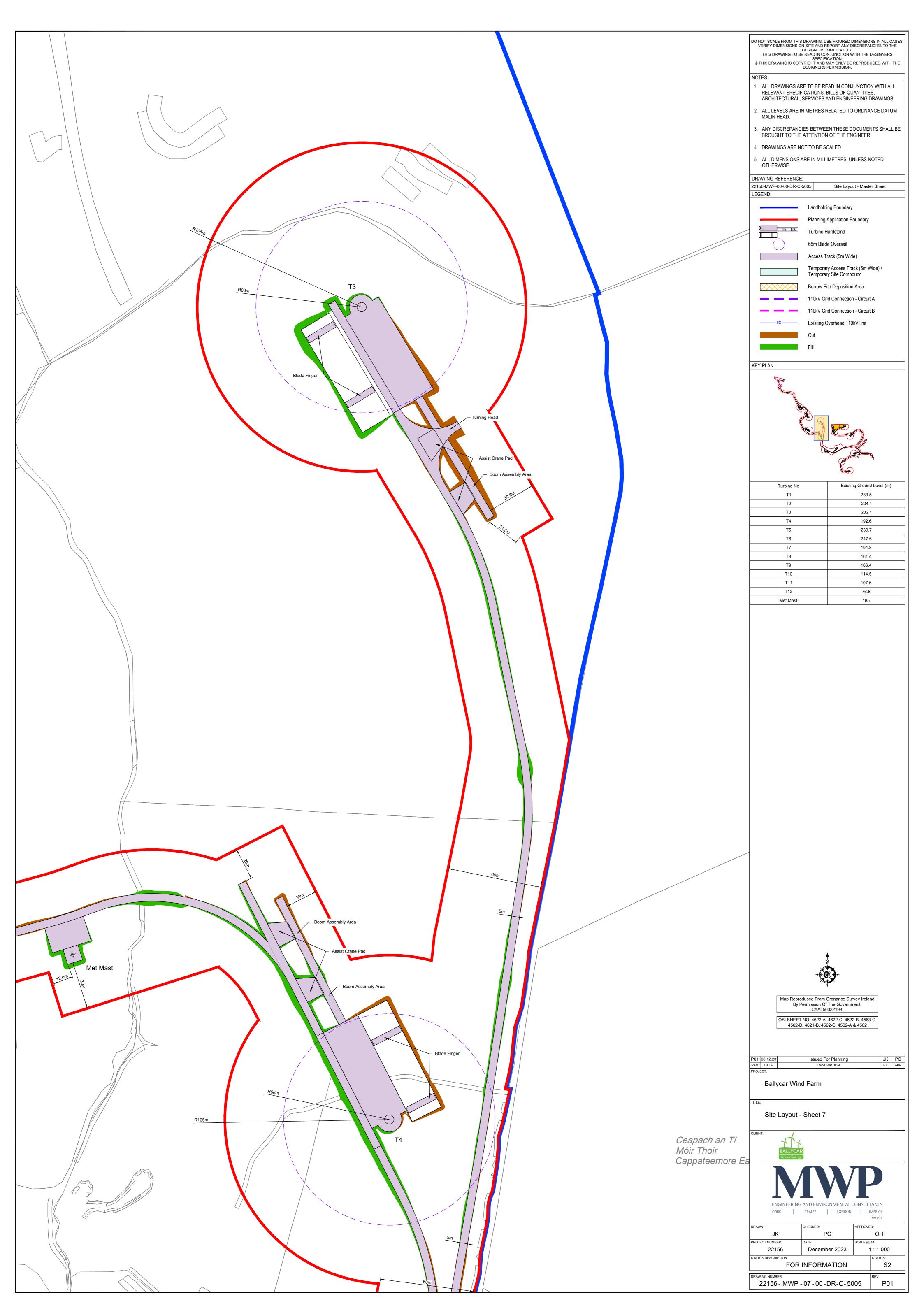
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	T1 T2 T3	Existing Ground Level (m) 233.5 204.1 232.1
	T1 T2 T3 T4 T5 T6 T7	Existing Ground Level (m) 233.5 204.1 232.1 192.6 239.7 247.6 194.8
	T1 T2 T3 T4 T5 T6	Existing Ground Level (m) 233.5 204.1 232.1 192.6 239.7 247.6
	T1 T2 T3 T4 T5 T6 T7 T8 T9 T10	Existing Ground Level (m)           233.5           204.1           232.1           192.6           239.7           247.6           194.8           161.4           166.4           114.5
	T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11	Existing Ground Level (m)         233.5         204.1         232.1         192.6         239.7         247.6         194.8         161.4         166.4         114.5         107.6
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	T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12	Existing Ground Level (m)           233.5           204.1           232.1           192.6           239.7           247.6           194.8           161.4           166.4           114.5           107.6           76.8
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	T1         T2         T3         T4         T5         T6         T7         T8         T9         T10         T11         T12         Met Mast         Met Mast         OSI SHEET NO: 46 4562-D, 4621-H         P01       08.12.23         REV       DATE         PROJECT:         Ballycar Wind Farmer	Existing Ground Level (m)         233.5         204.1         232.1         192.6         239.7         247.6         194.8         166.4         166.4         114.5         107.6         166.4         114.5         107.6         76.8         185         Import Survey Ireland on Of The Government.         AL50332198         22-A, 4622-C, 4622-B, 4563-C, B, 4562-C, 4562-A & 4562         IPED FOR Planning         JK       PC         DESCRIPTION         BY       APF
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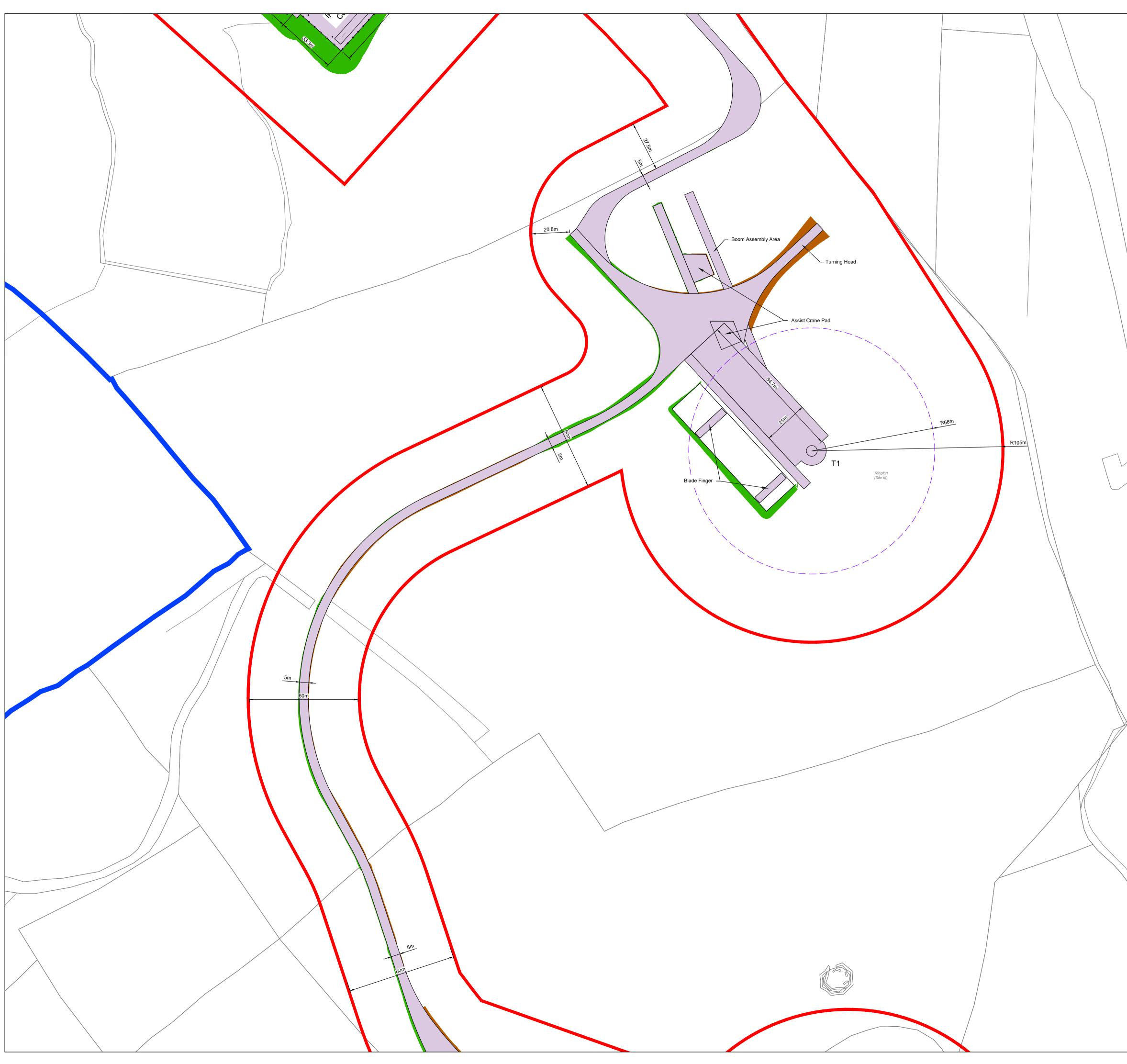




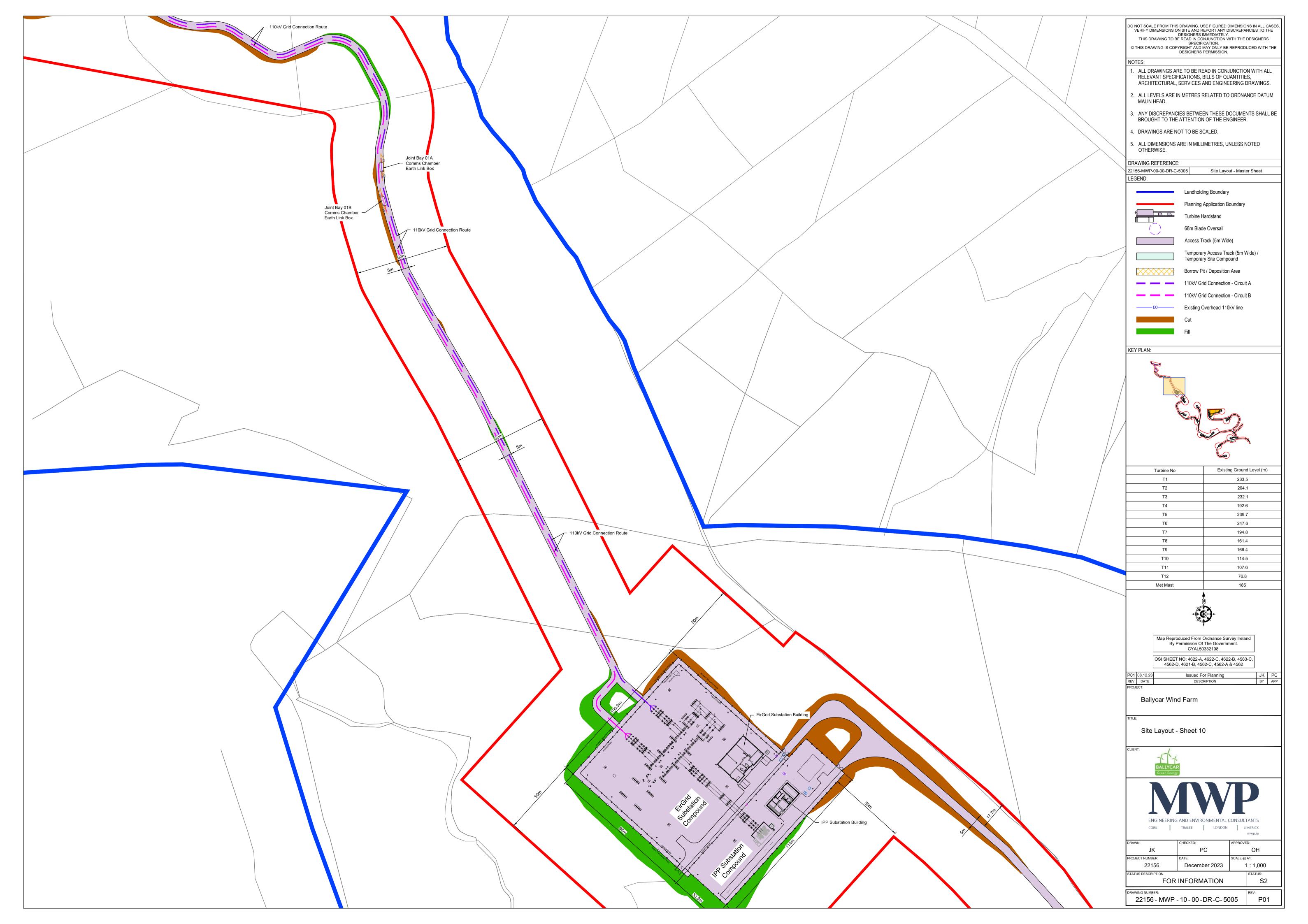


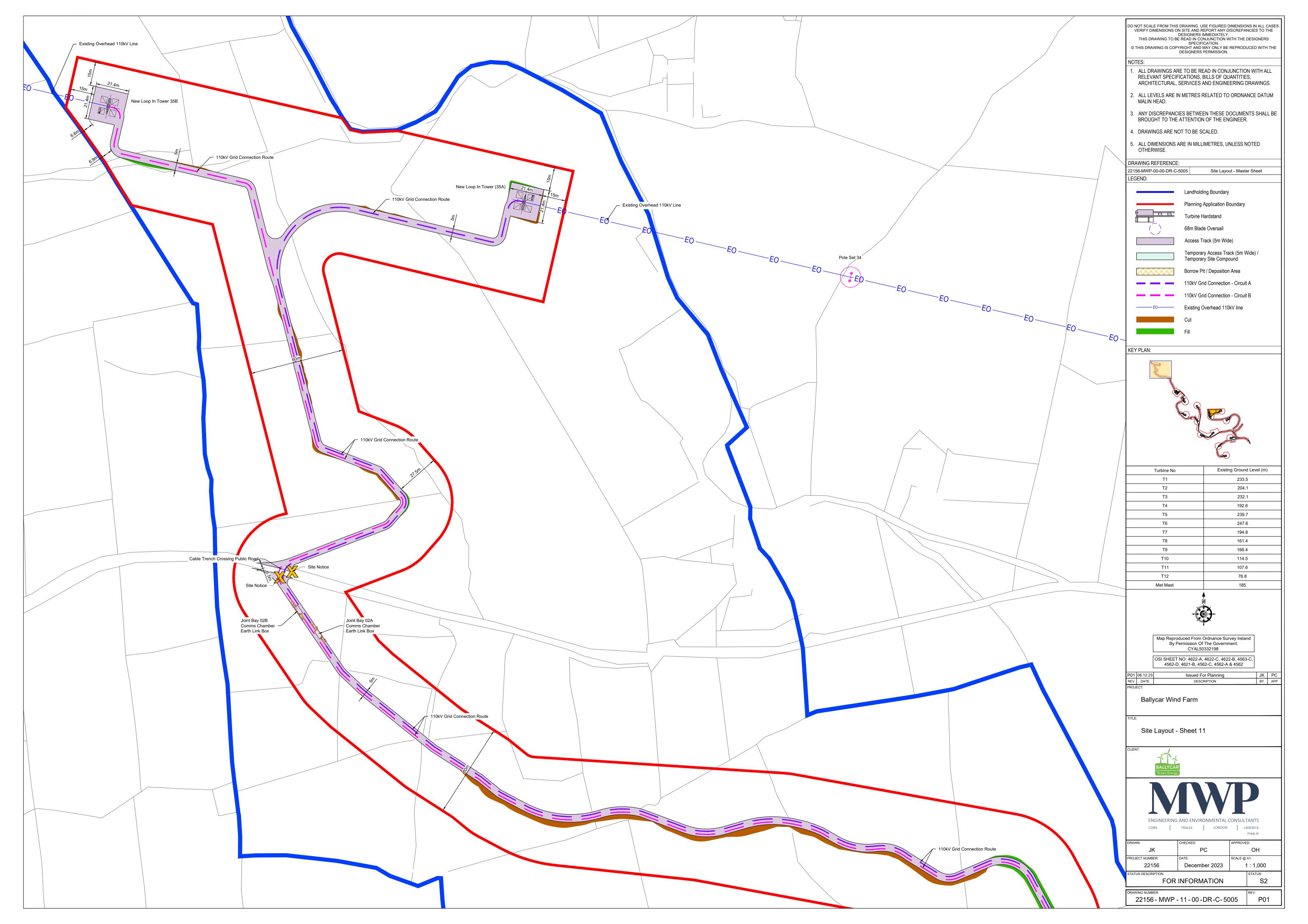


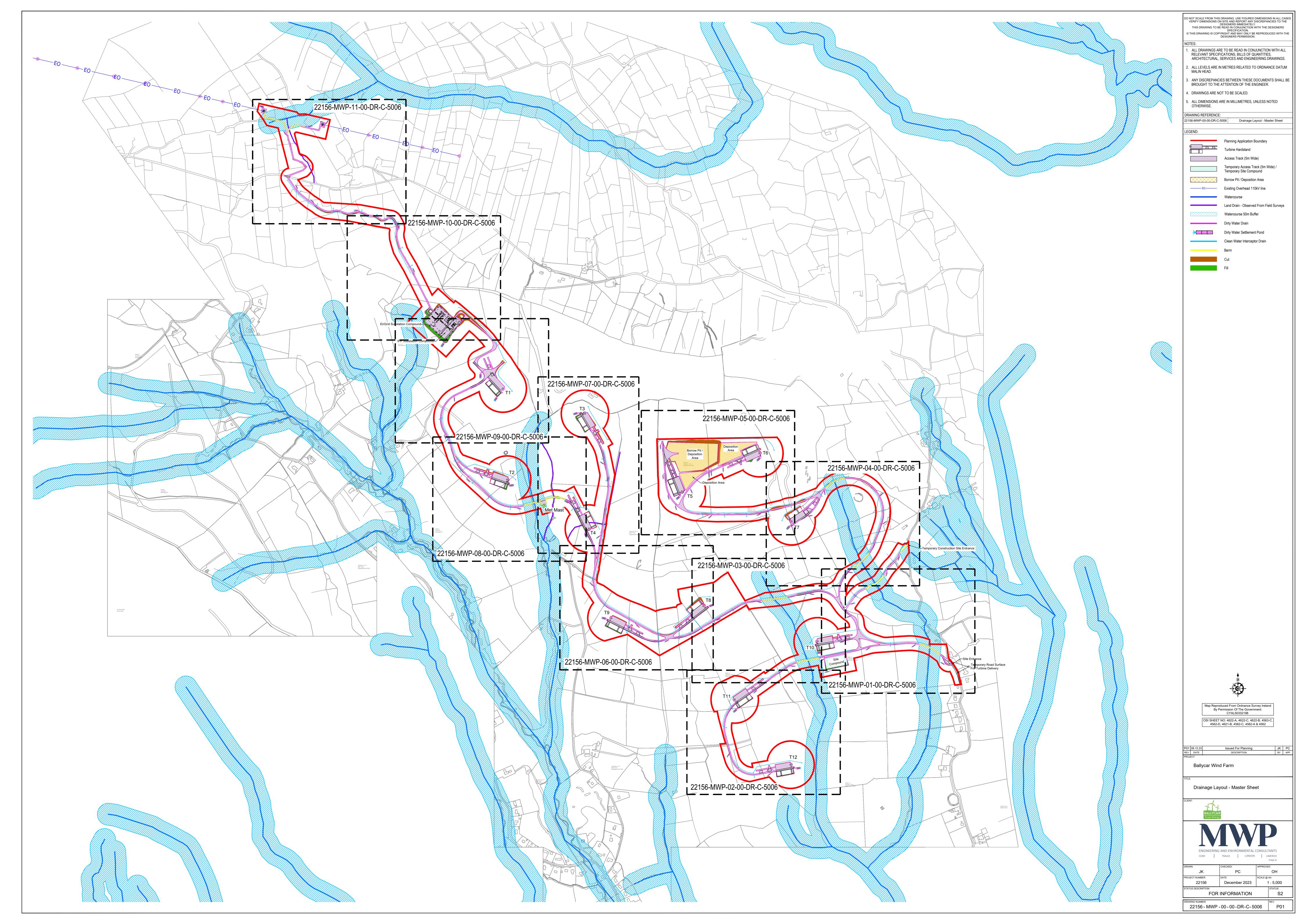


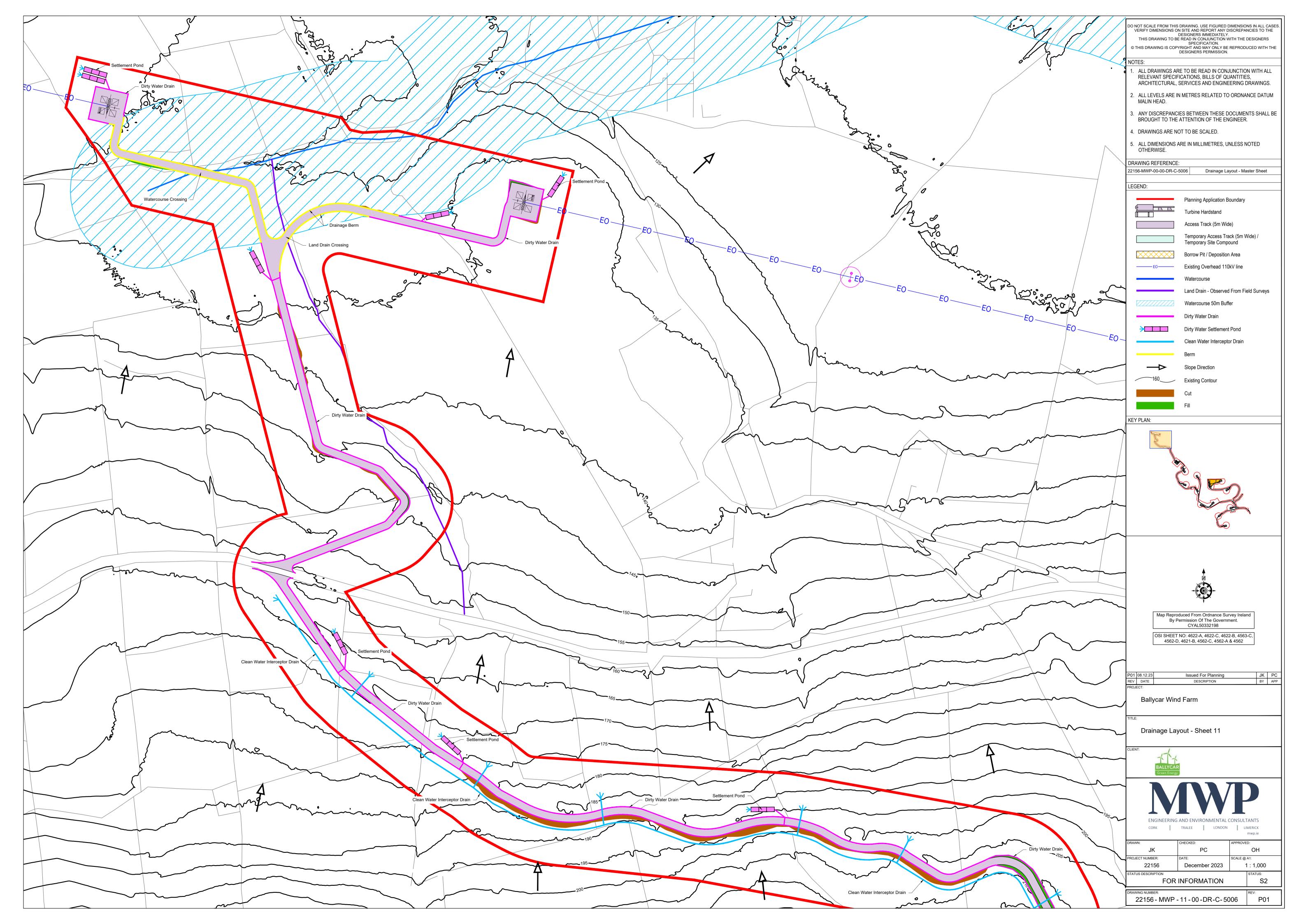


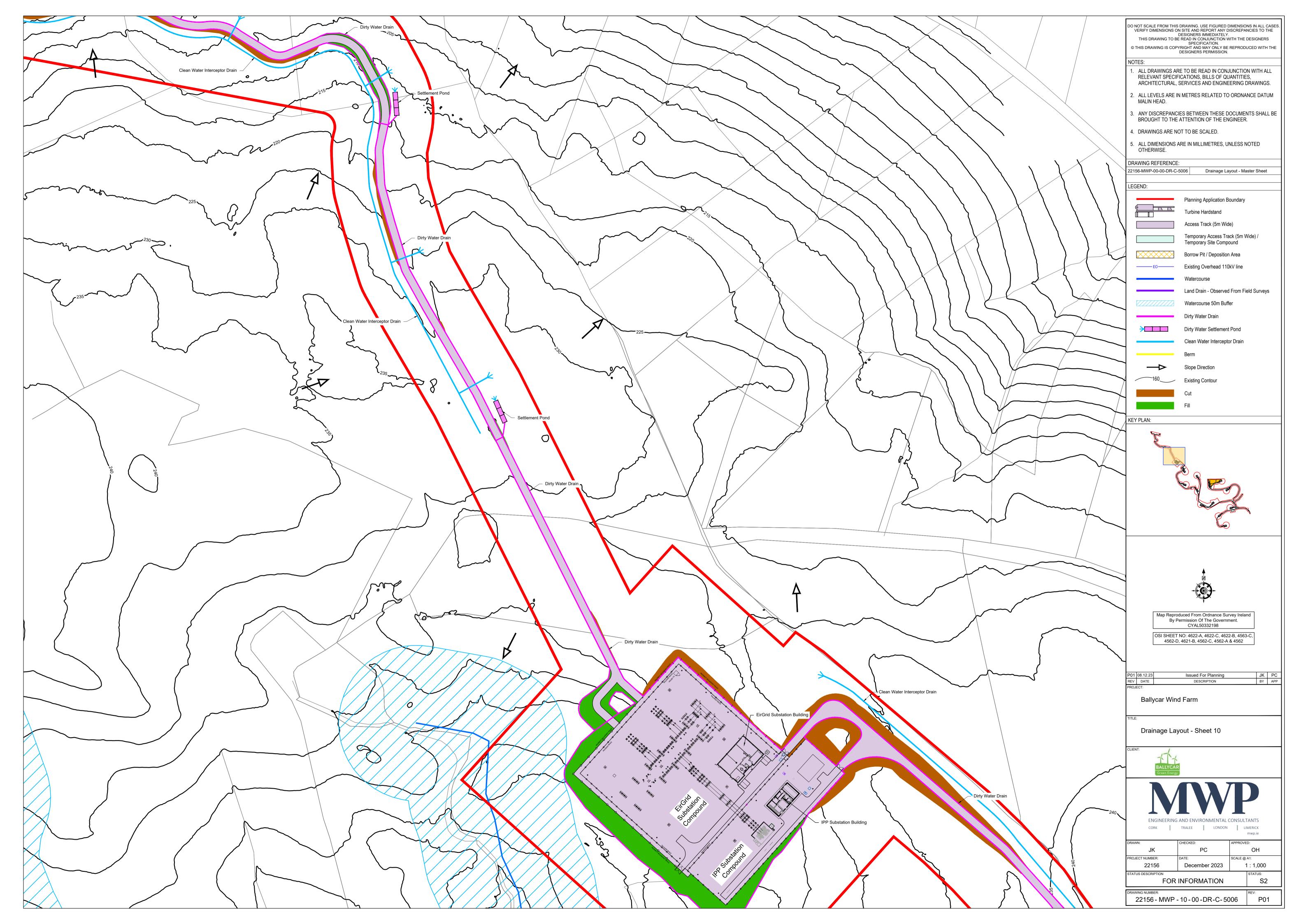
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4562-D P01 08.12.23	, 4621-B, 4562-C, 4562-A Issued For Planning	
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4562-D           P01         08.12.23           REV         DATE	, 4621-B, 4562-C, 4562-A Issued For Planning DESCRIPTION	
4562-D           P01         08.12.23           REV         DATE           PROJECT:	, 4621-B, 4562-C, 4562-A Issued For Planning DESCRIPTION	
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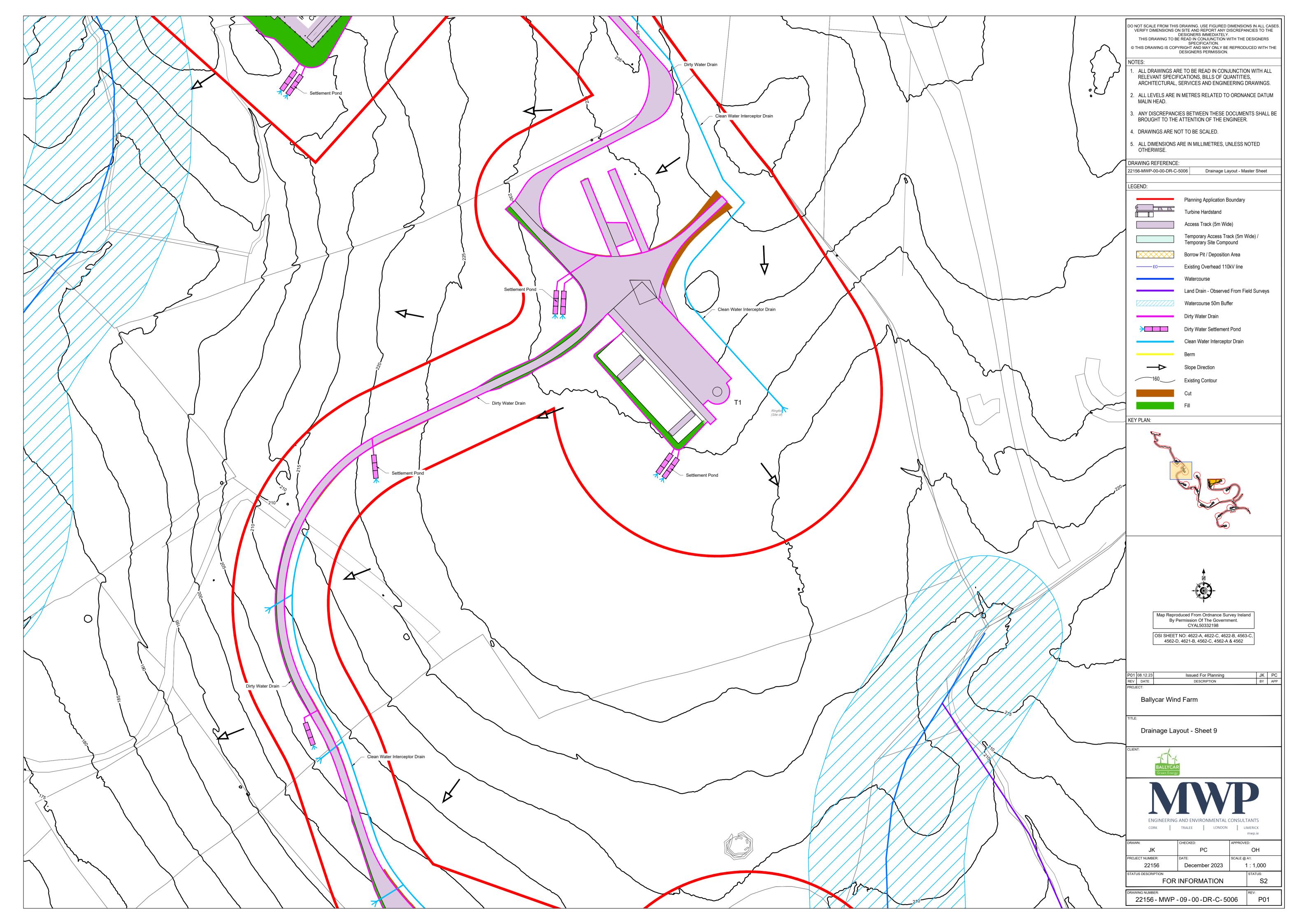


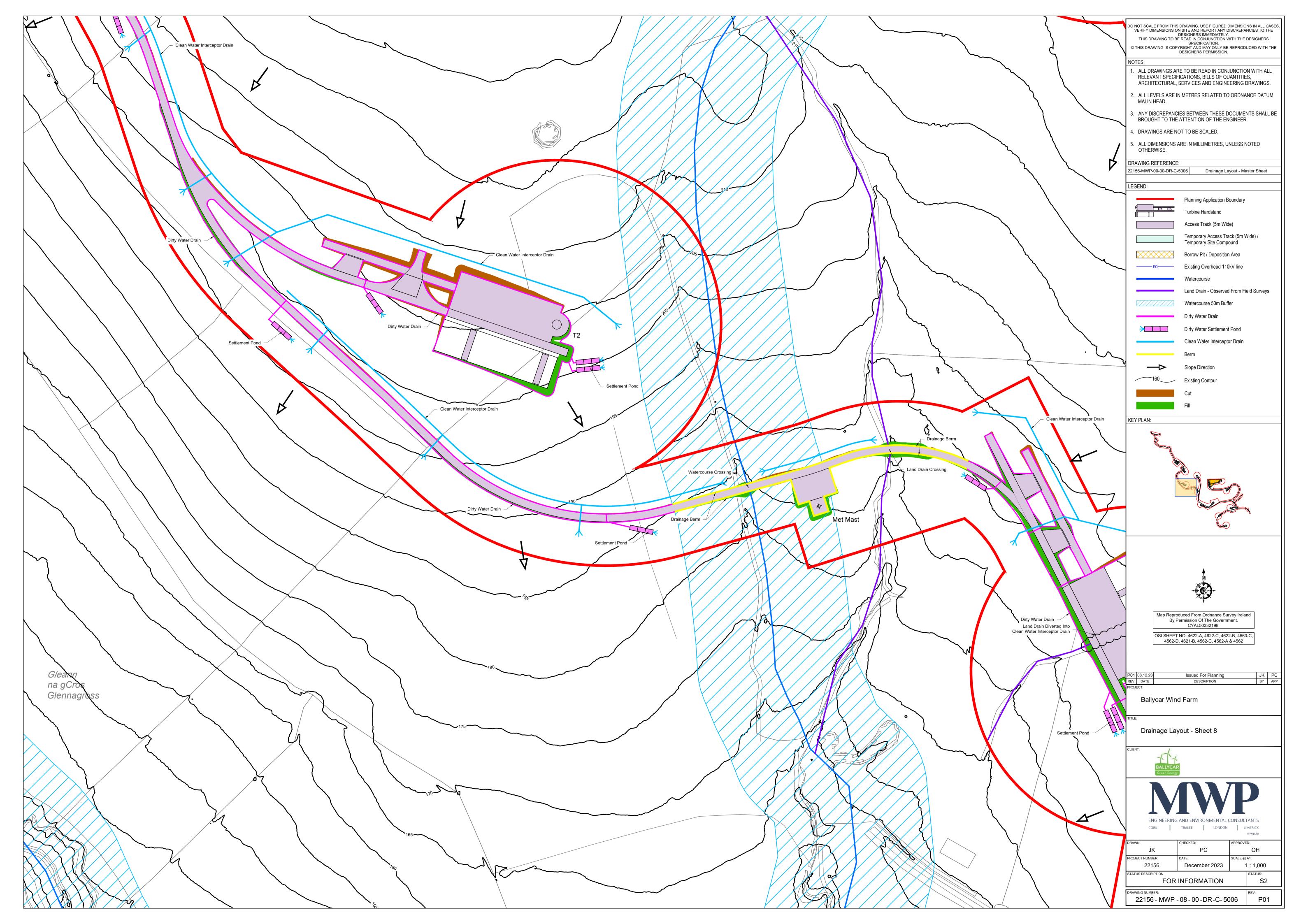


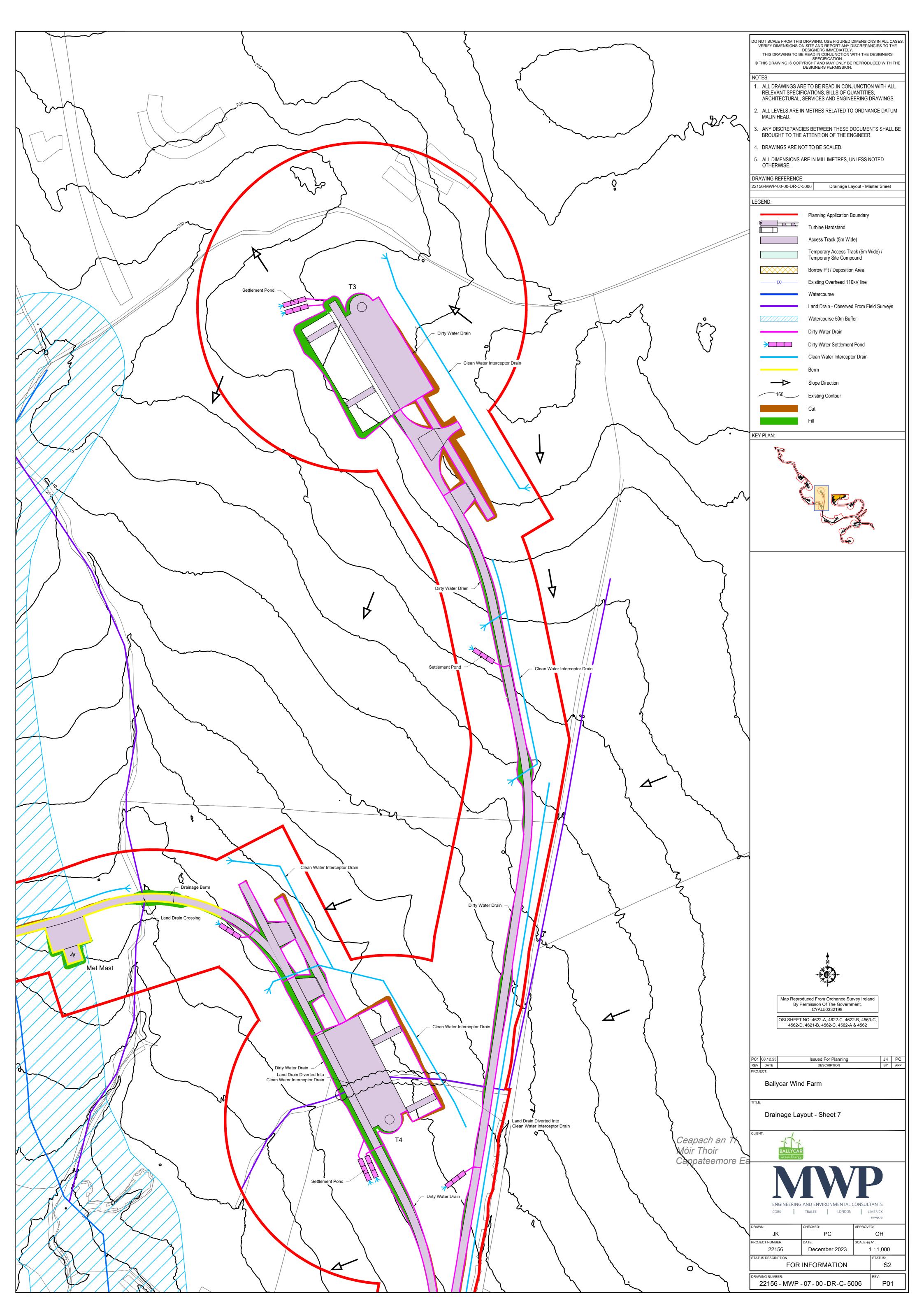


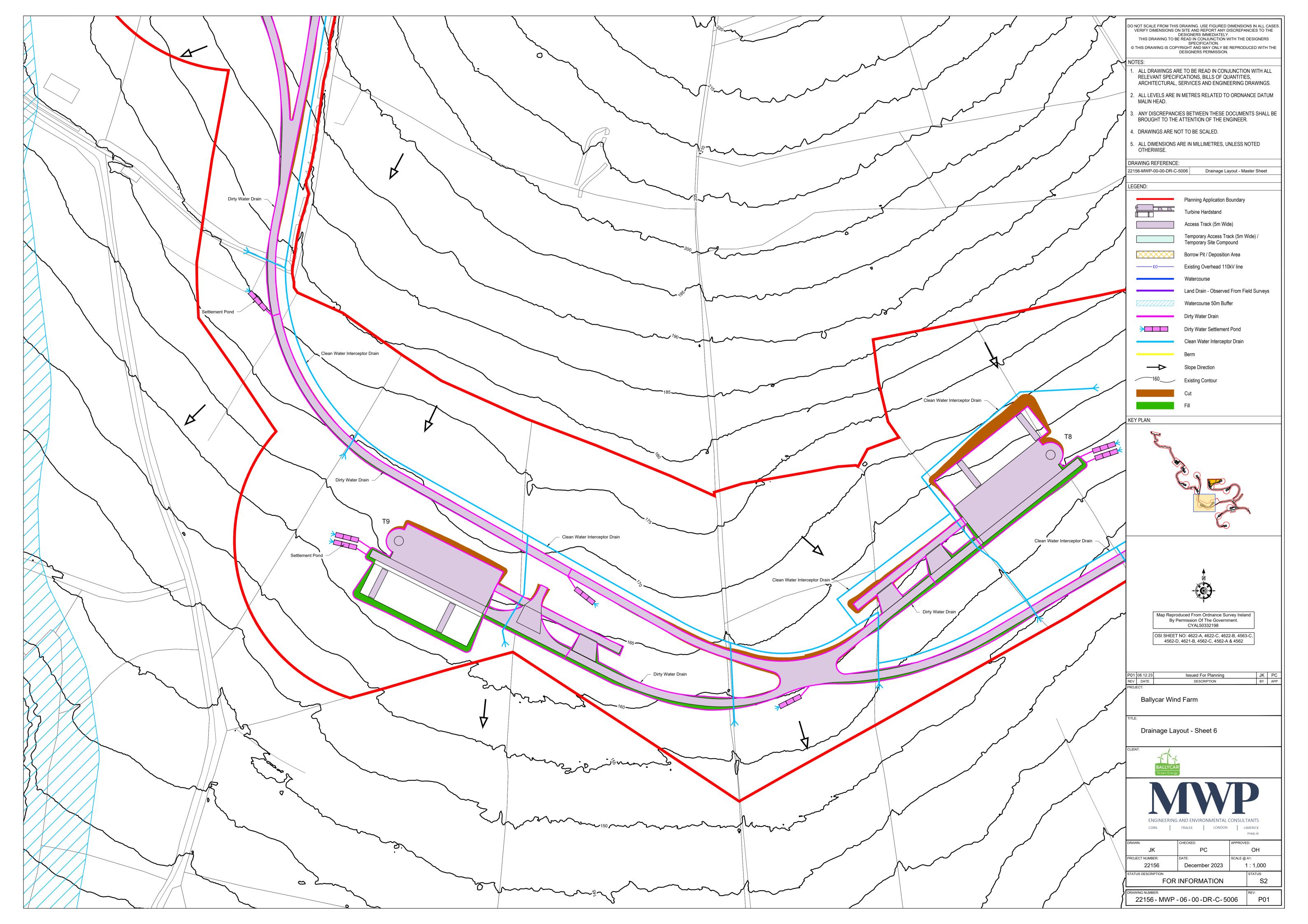


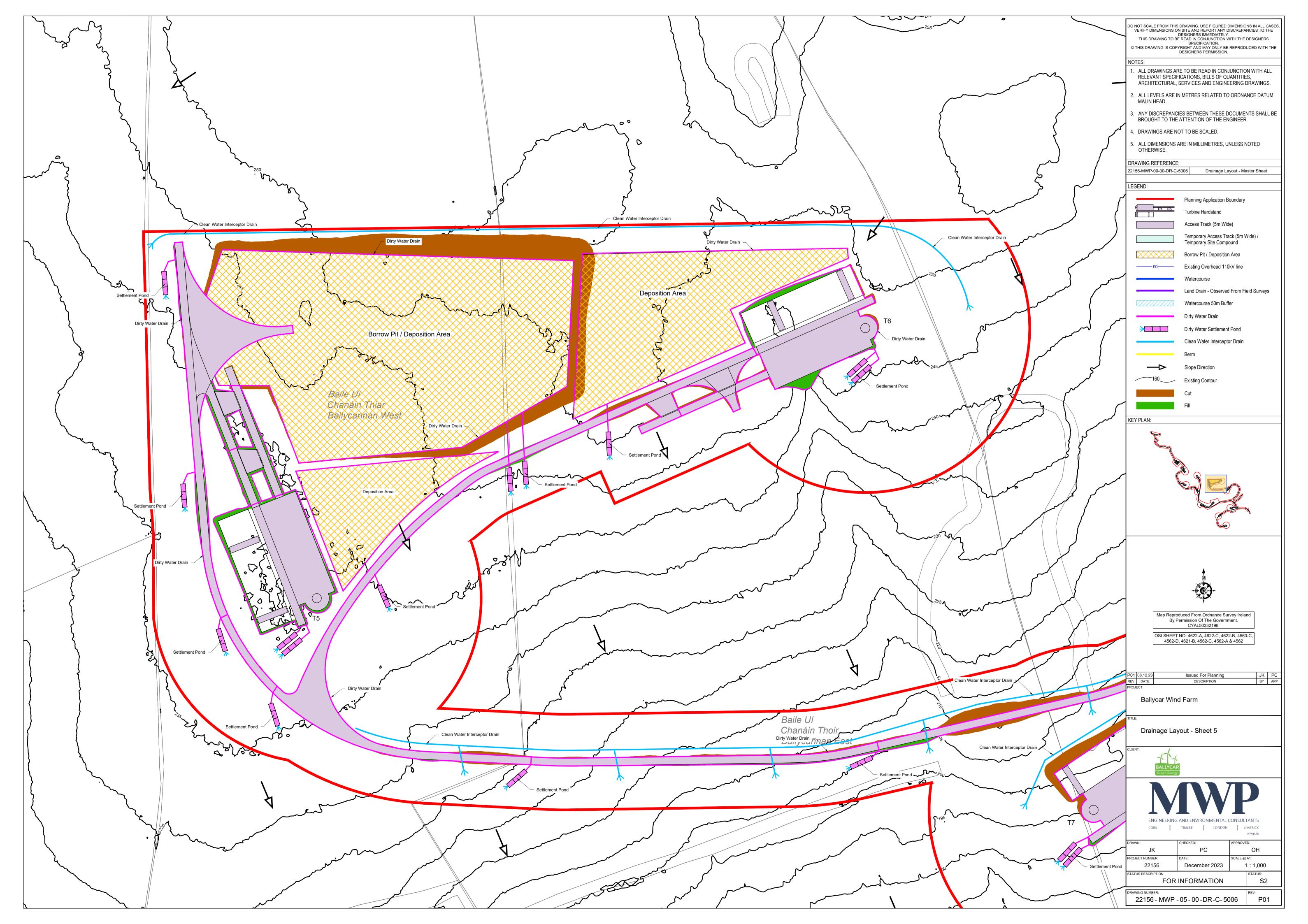


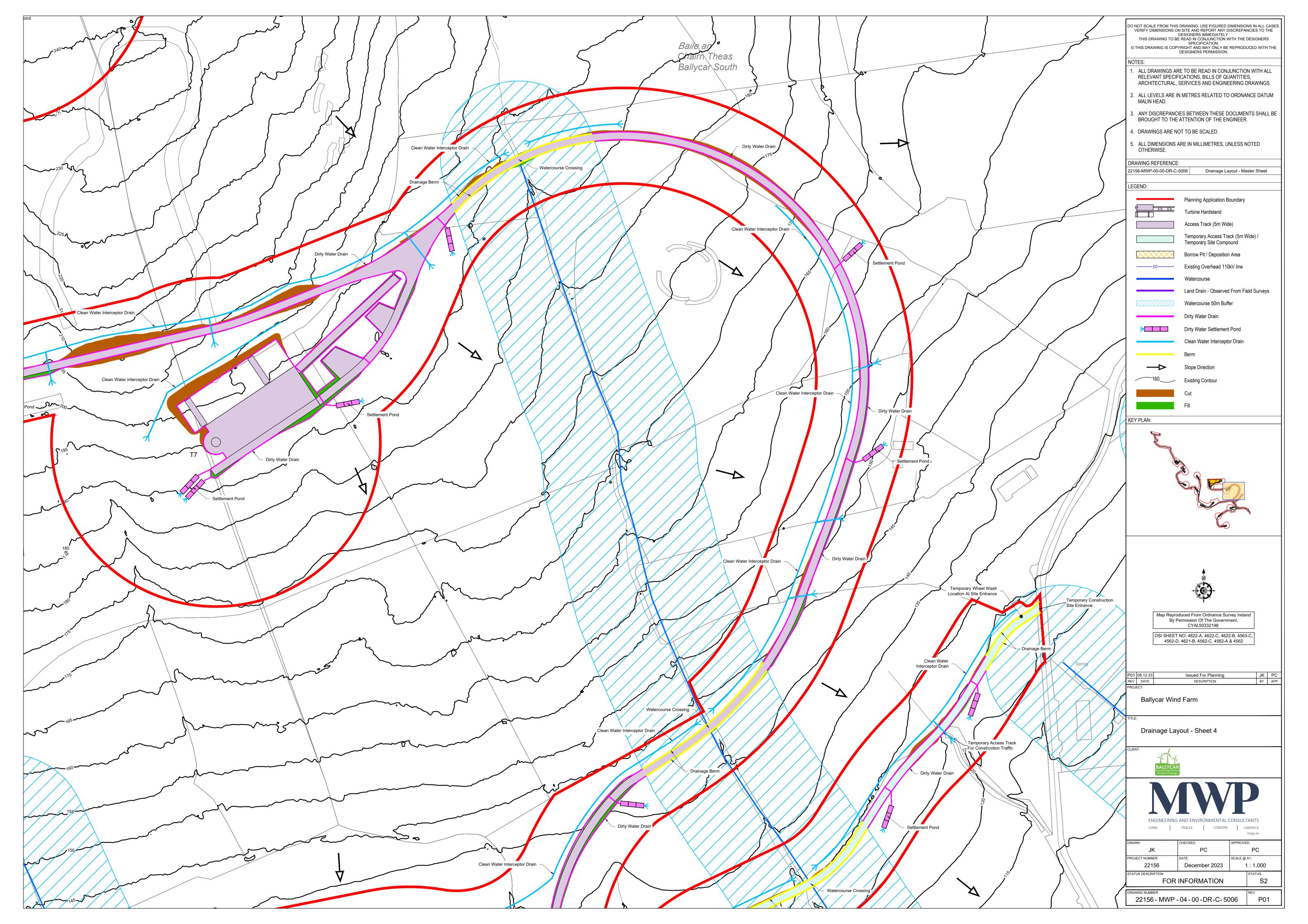


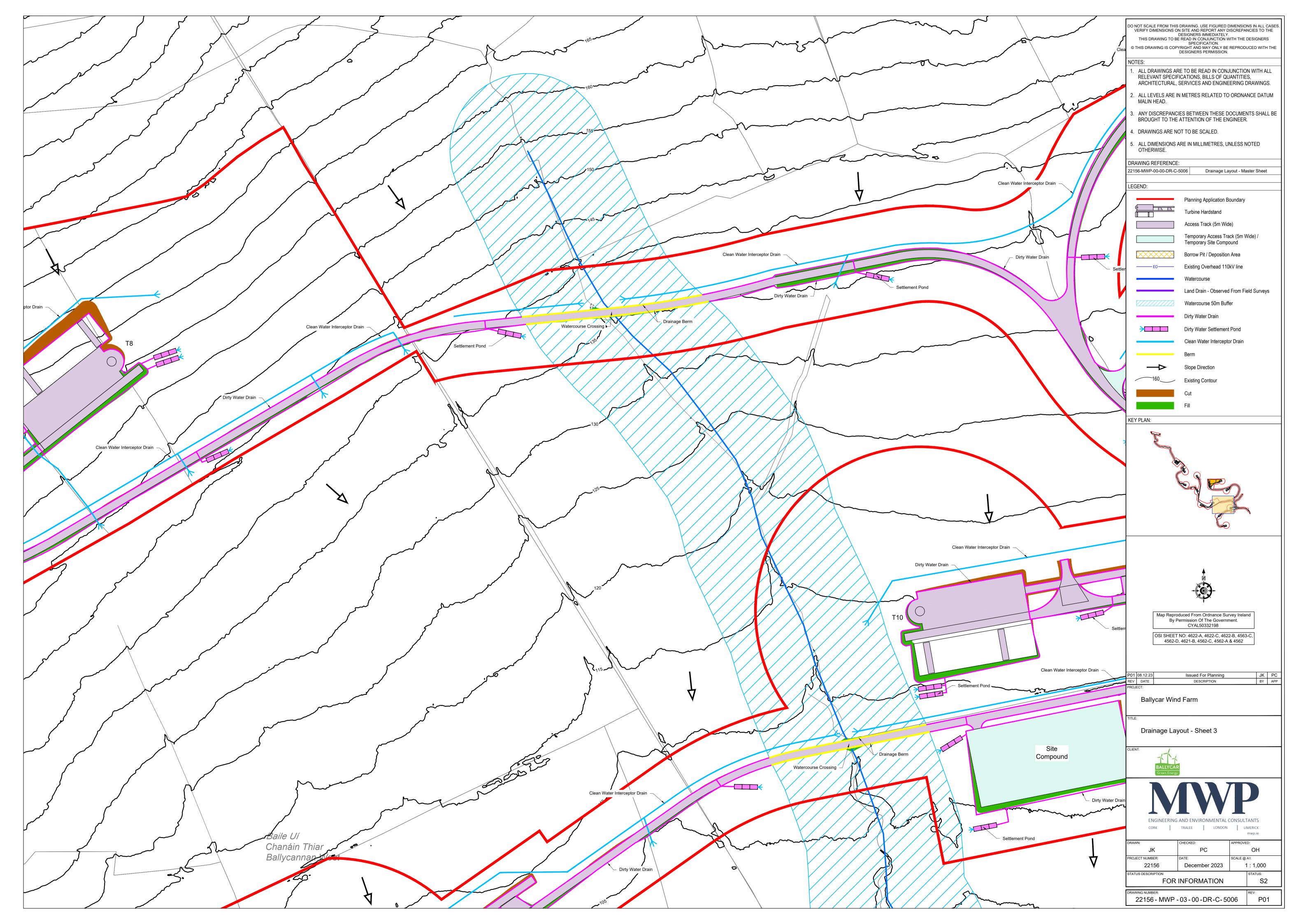


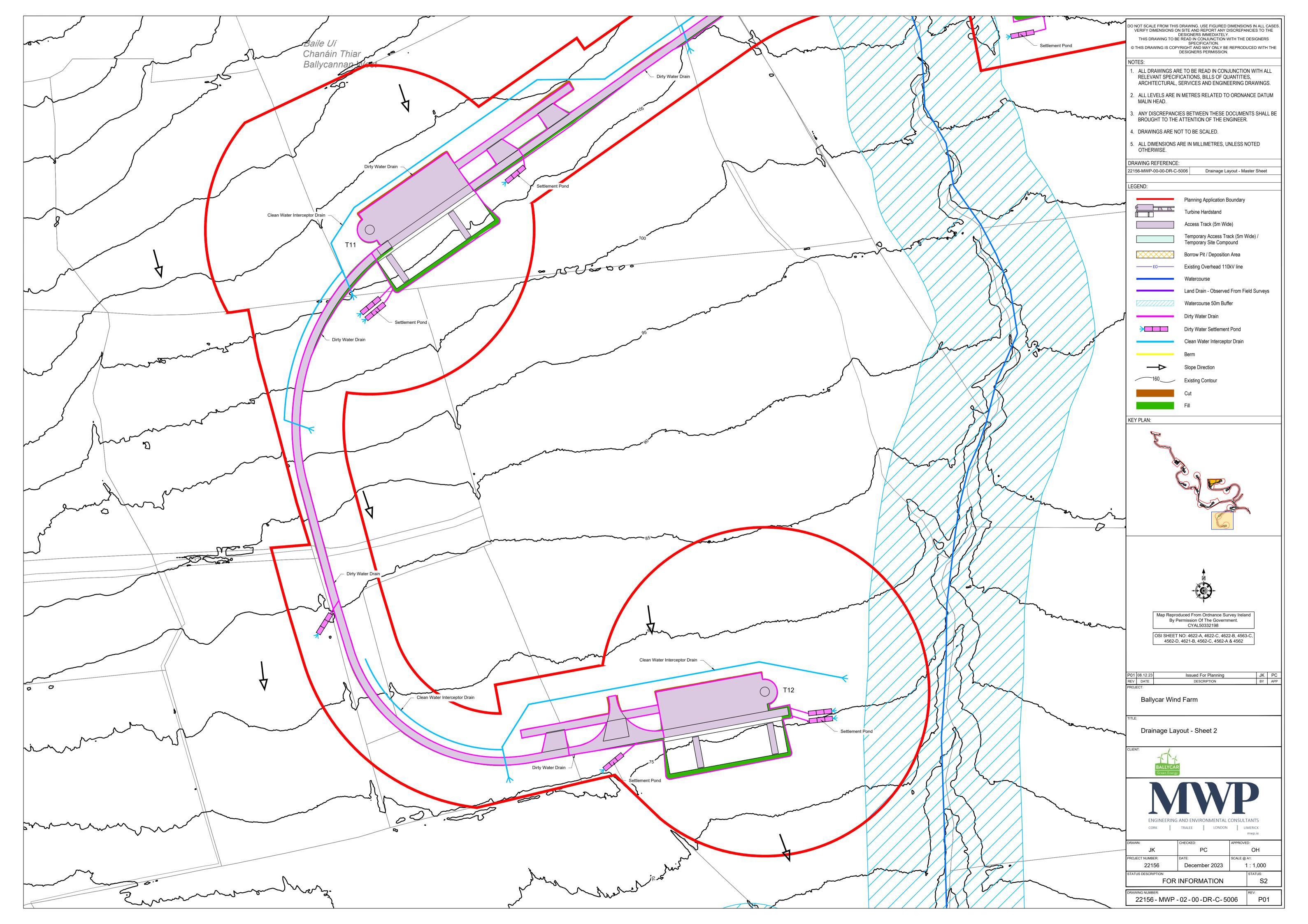


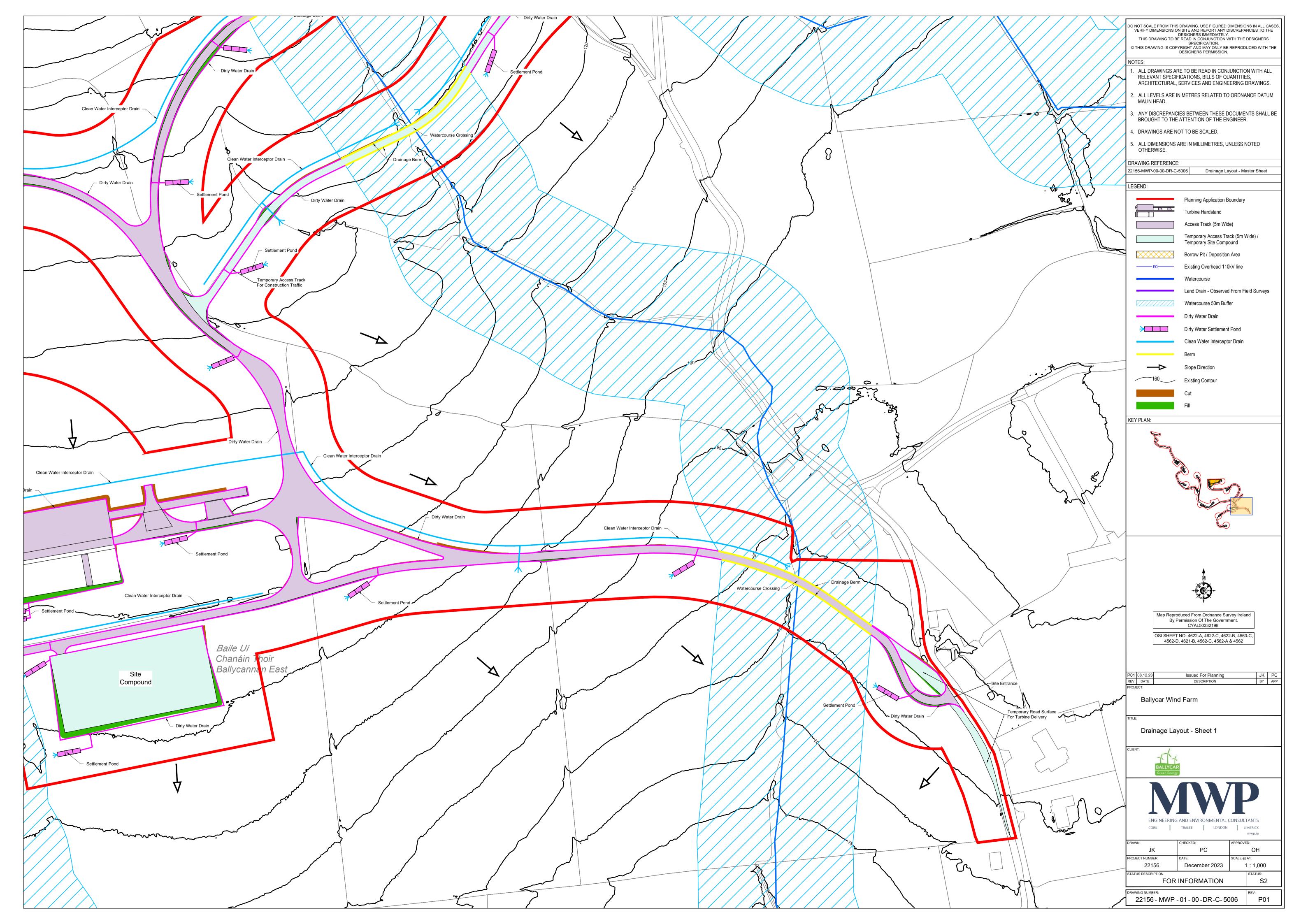


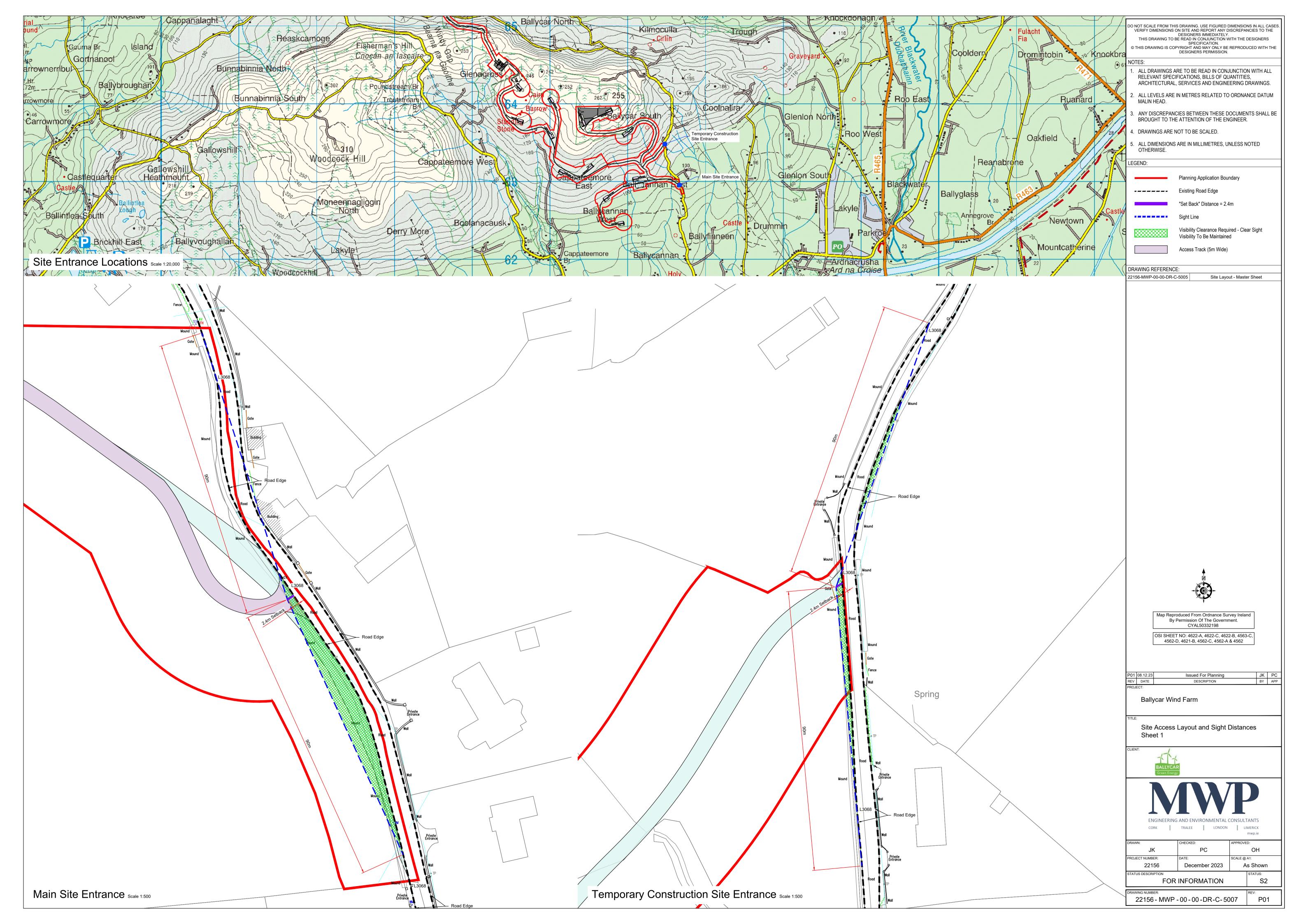


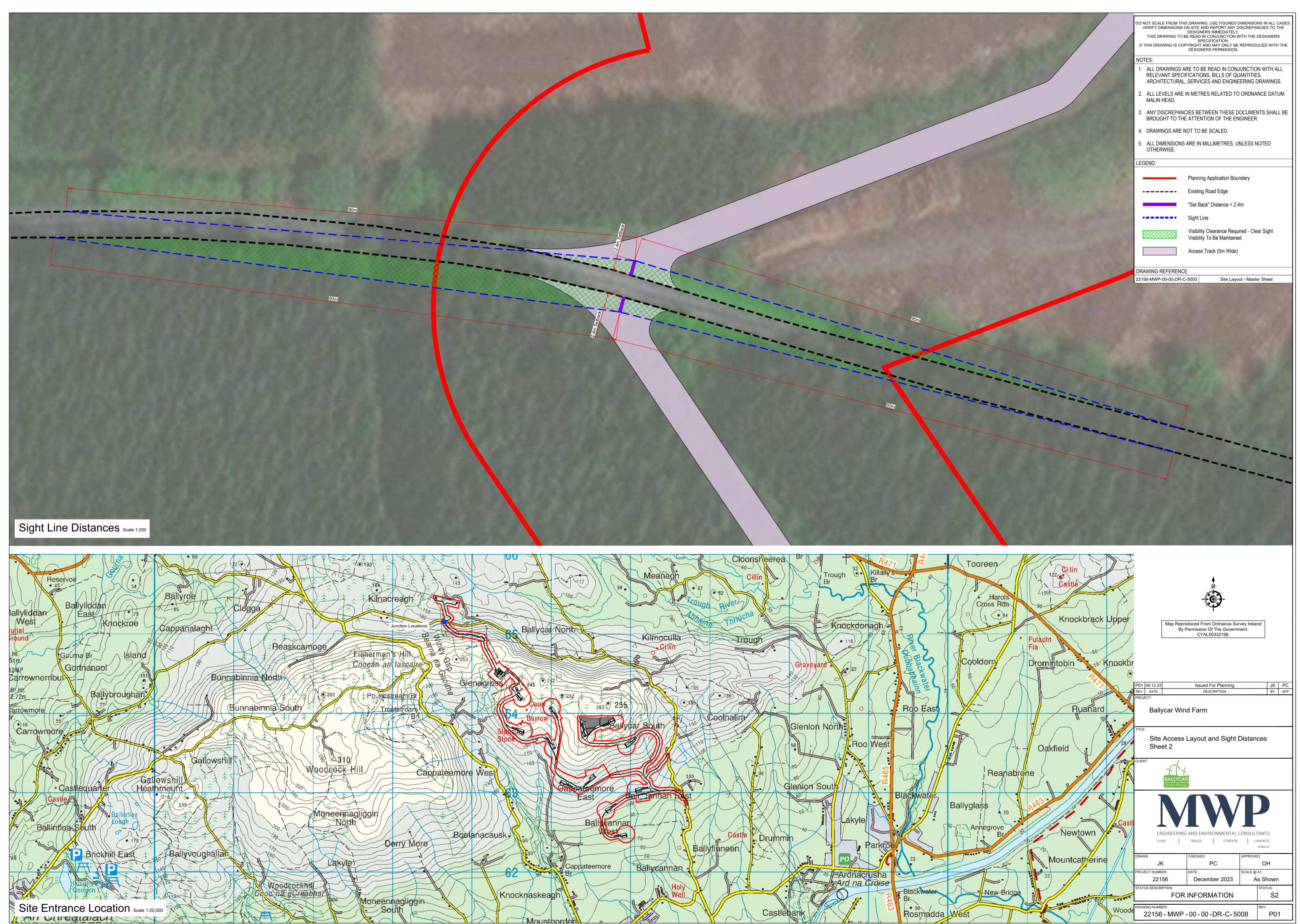


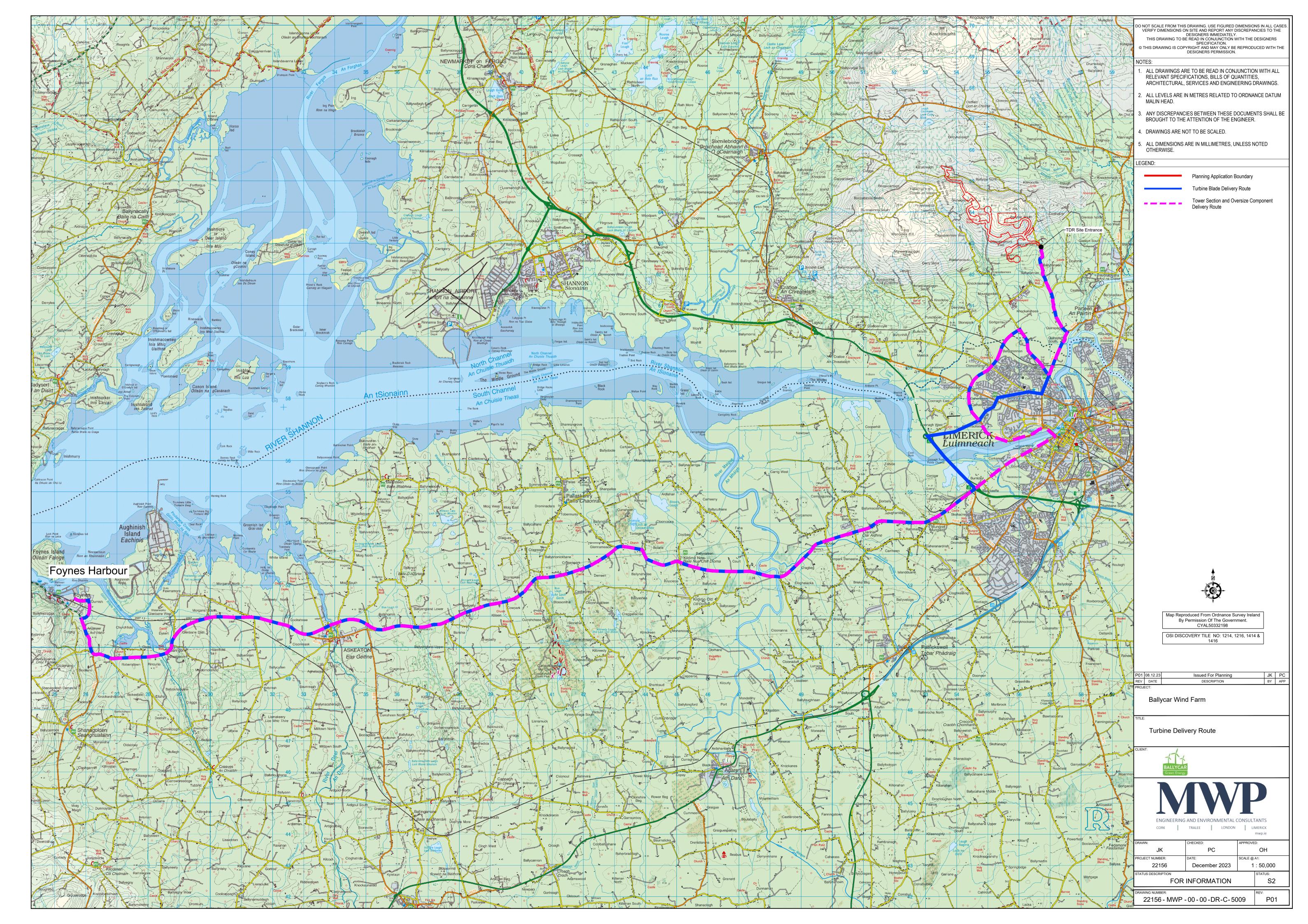


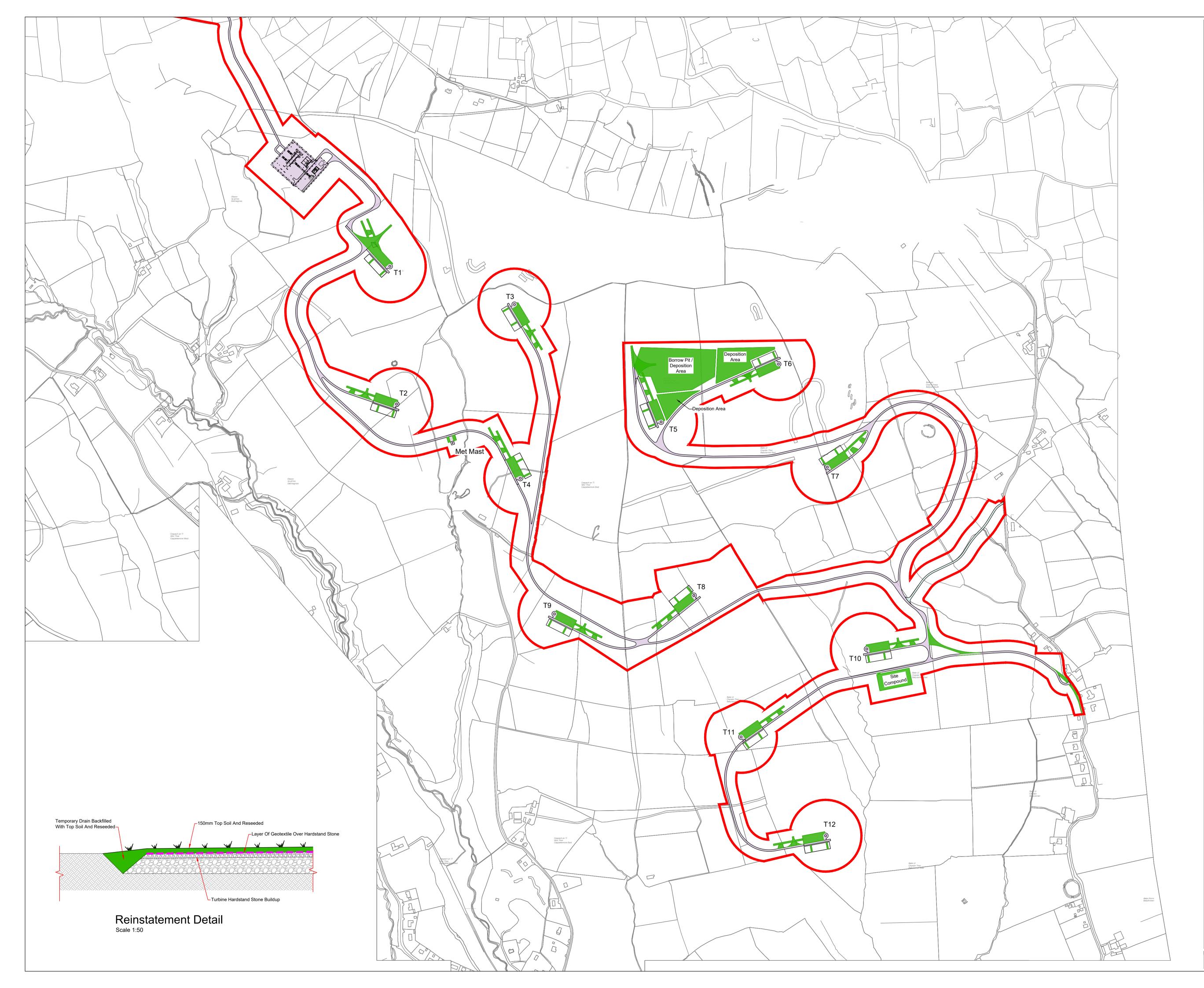




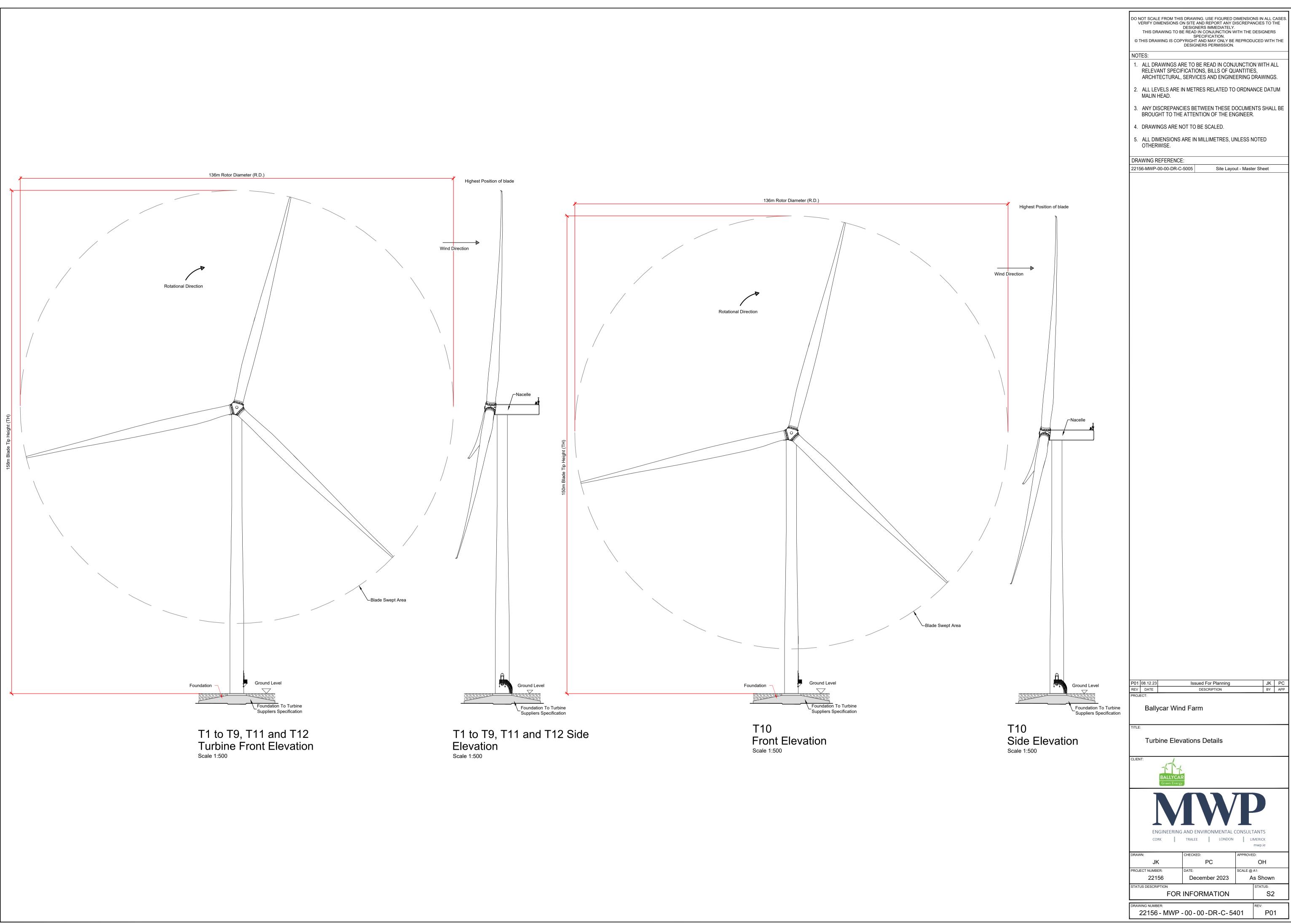


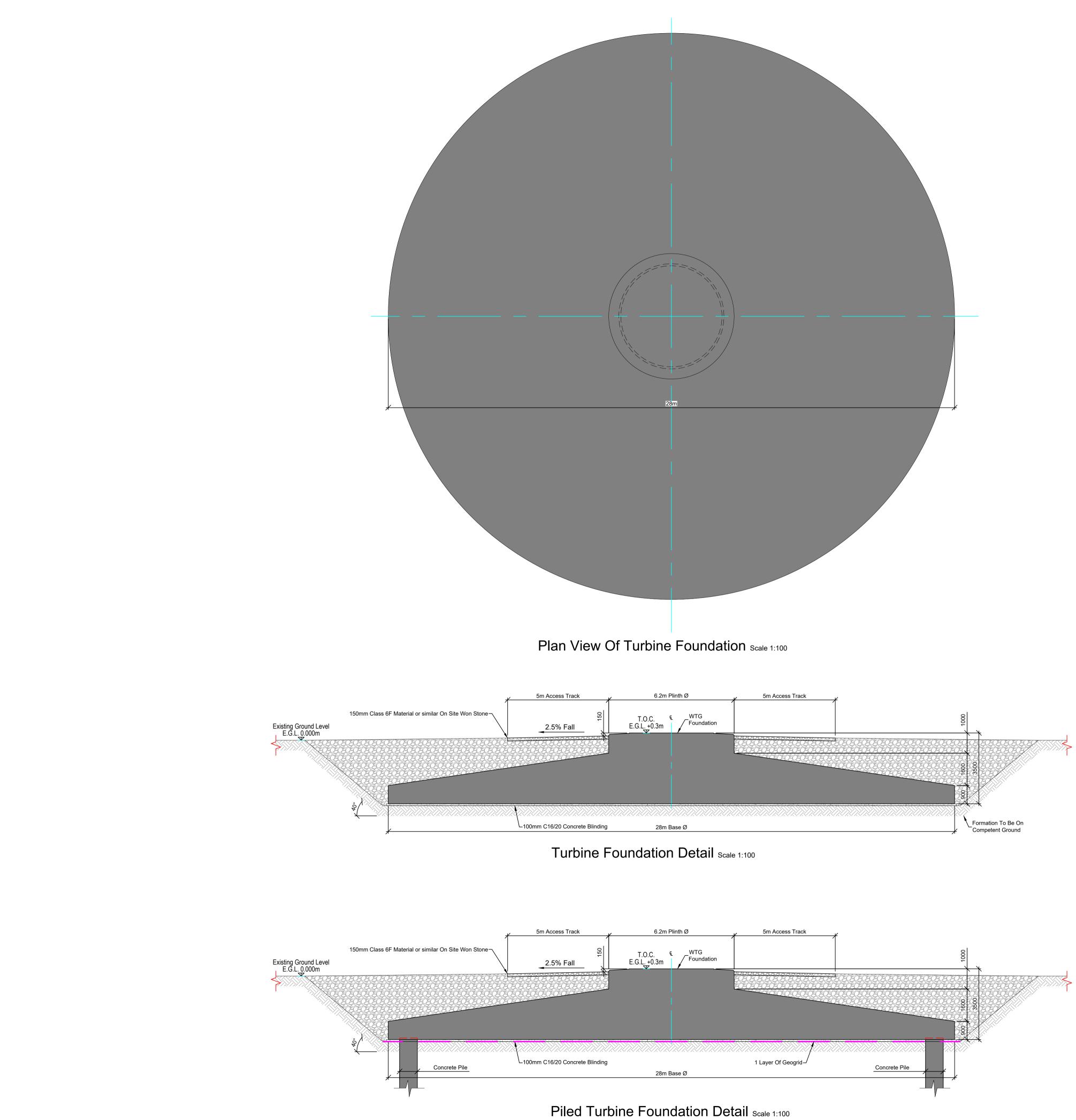




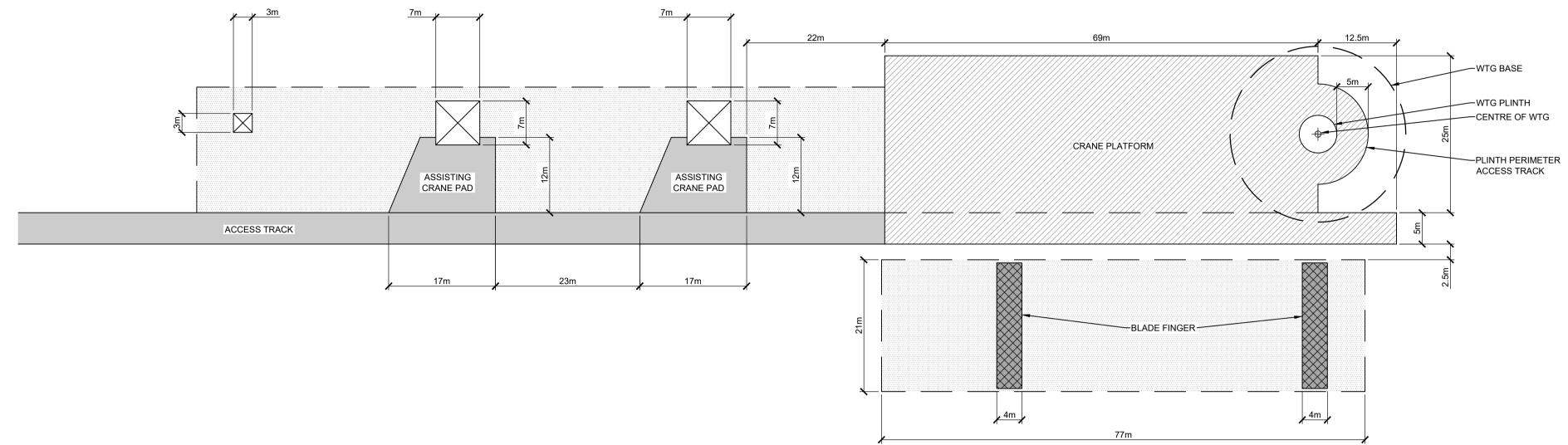


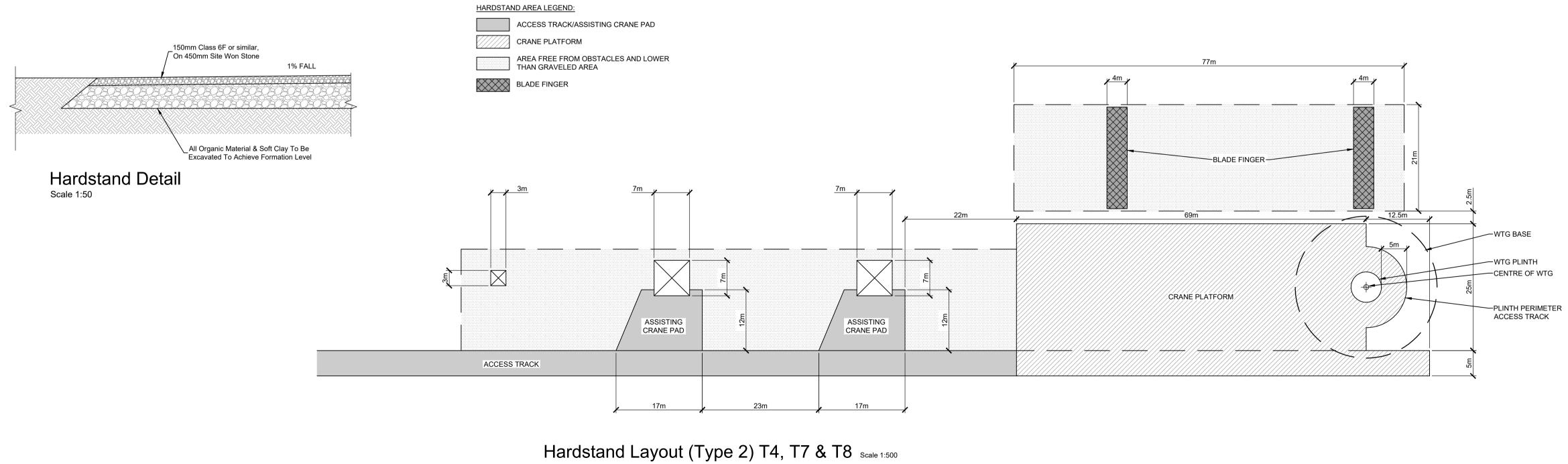
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<ul><li>ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.</li><li>2. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM</li></ul>					
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Revegetation of Temporary Works Areas					
CLIENT:					
BALLYCAR Green Energy					
MNP					
ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie					
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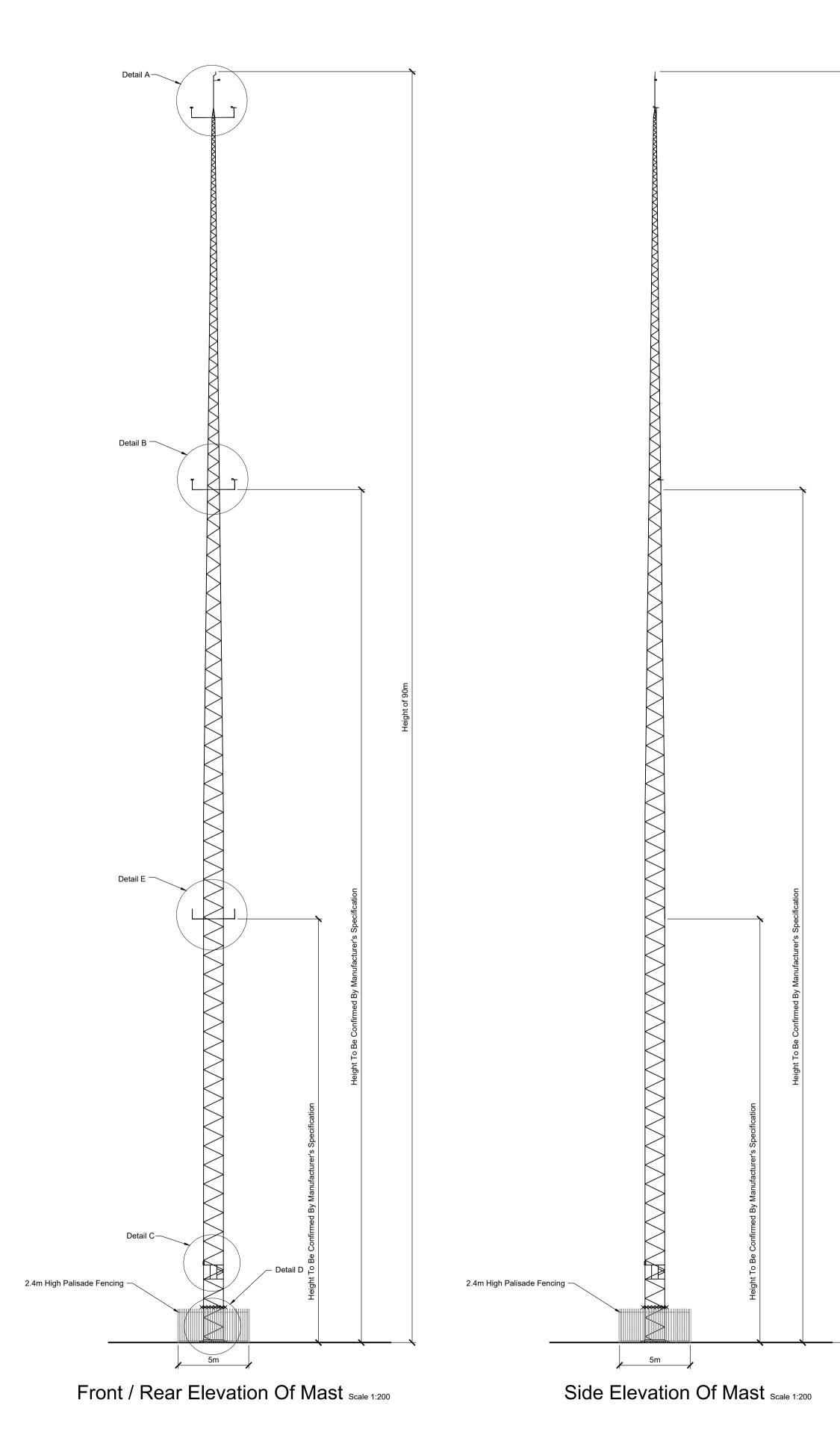
DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSION VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPA DESIGNERS IMMEDIATELY. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE SPECIFICATION. © THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPROD DESIGNERS PERMISSION.	NCIES TO THE DESIGNERS
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<ol> <li>ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS N OTHERWISE.</li> <li>SITE LAYOUT BASED ON VESTAS V136 TURBINE</li> </ol>	NOTED
SPECIFICATION. BLADE TIP HEIGHT = 158M (T10 IS HEIGHT = 90M AND BLADE LENGTH = 68M.	S 150M), HUB
DRAWING REFERENCE: 22156-MWP-00-00-DR-C-5005 Site Layout - Master	er Sheet
P01         08.12.23         Issued For Planning           REV         DATE         DESCRIPTION           PROJECT:	JK PC BY APP
Ballycar Wind Farm	
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CLIENT:	
BALLYCAR Green Energy	
ENGINEERING AND ENVIRONMENTAL CONSULT CORK TRALEE LONDON LI	MERICK
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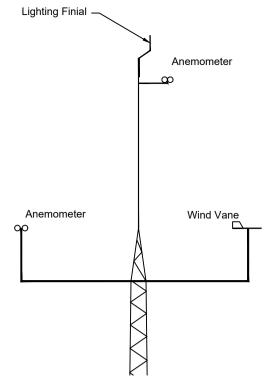


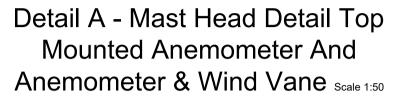


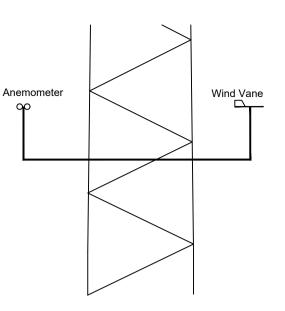
Hardstand Layout (Type 1) All Turbine Except T4, T7 & T8 Scale 1:500

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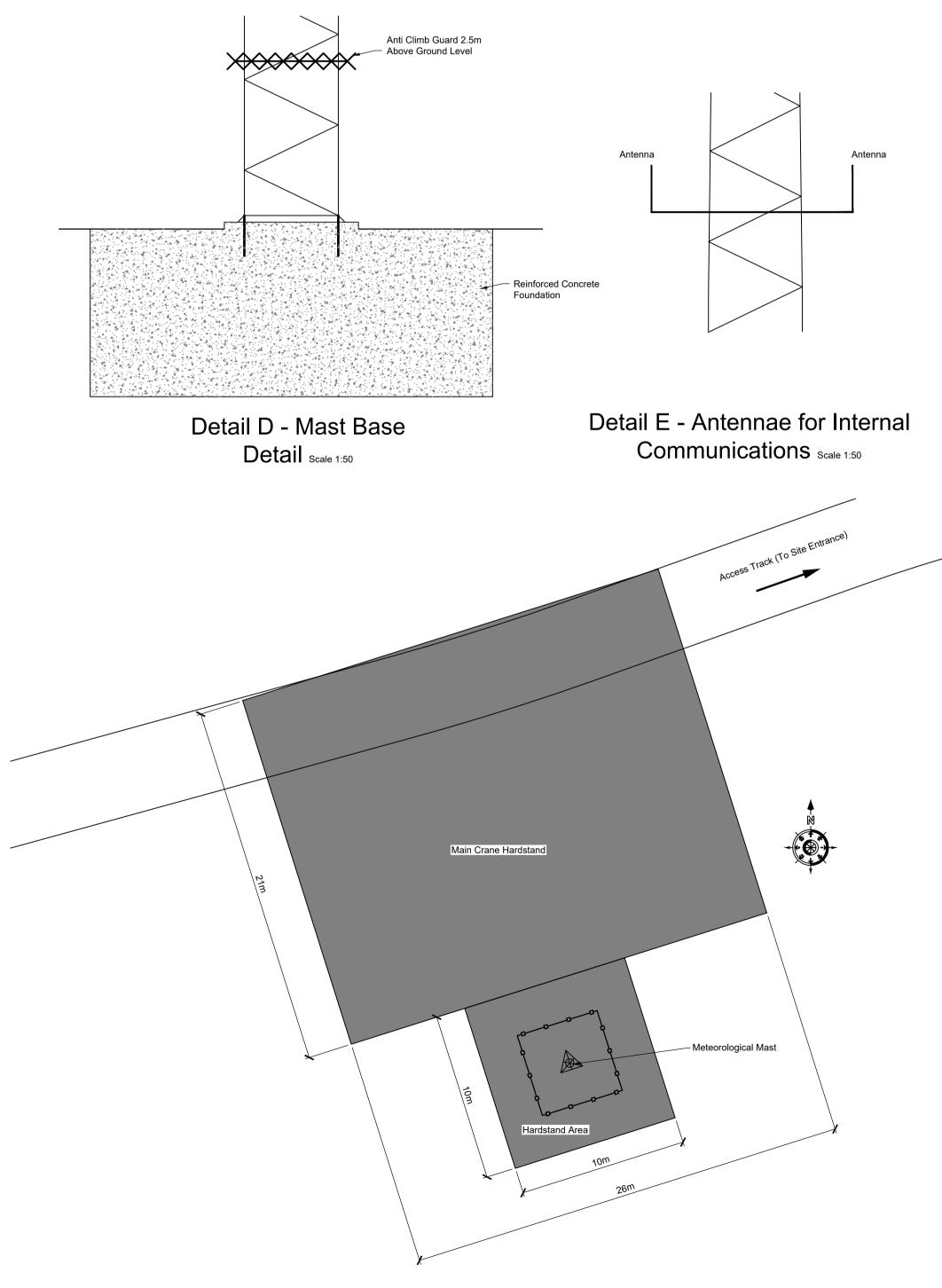




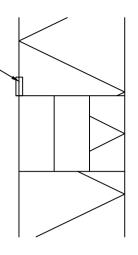


Meteorological Cabinet Together With Rain Collector And — Temperature Sensor Mounted On Beam With Fixture



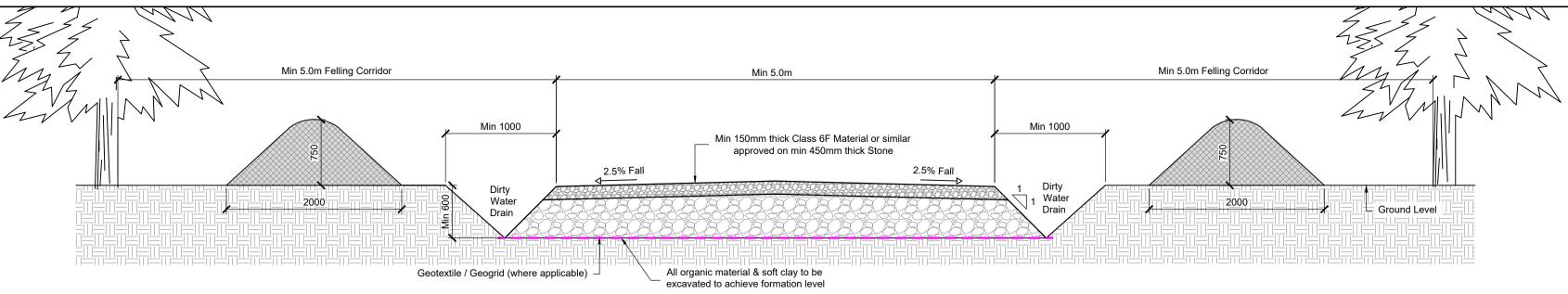


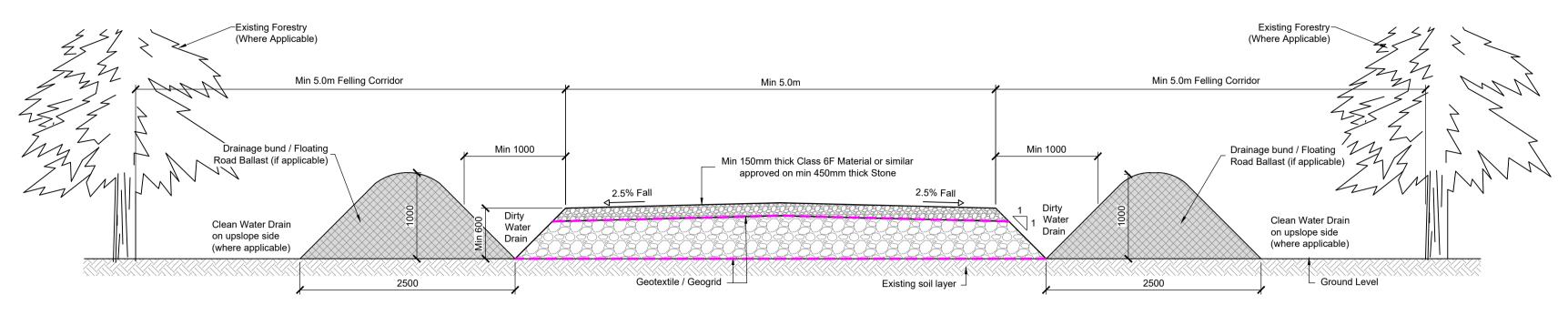
Meteorological Mast Layout Scale 1:200



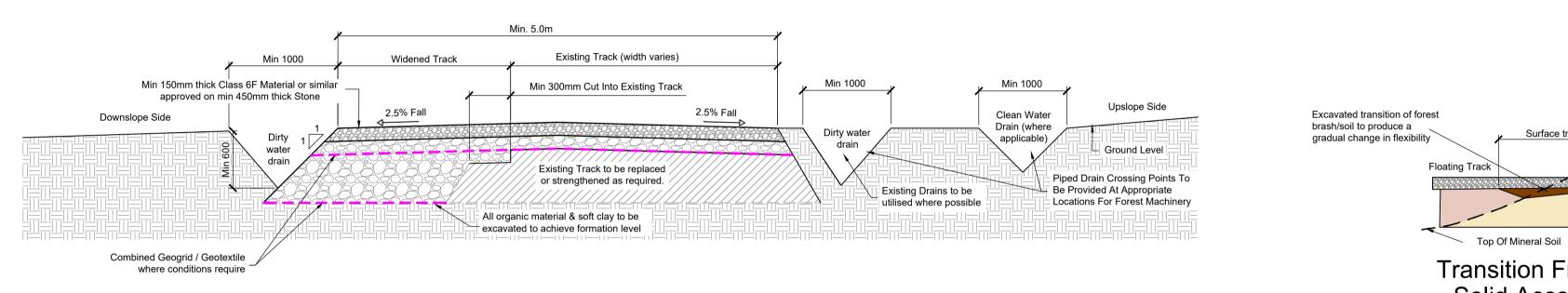
Detail C Scale 1:50

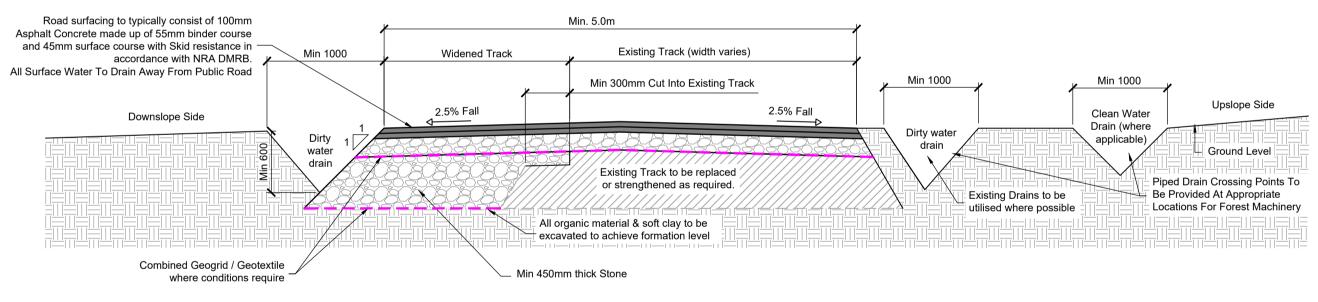
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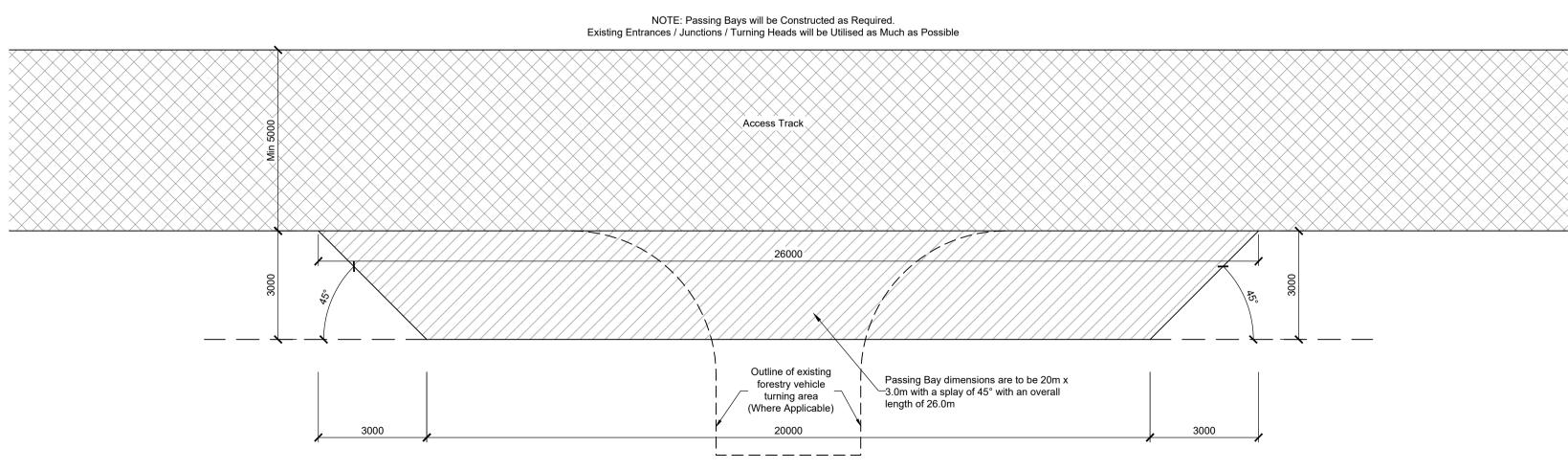








Access Track Type 4 - Detail for Upgrading / Widening Existing Track (Bitumen Surface) Scale 1:40



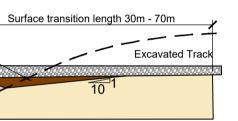
# Access Track Type 1 - Excavated Access Track Detailscale 1:40

# Access Track Type 2 - Floating Access Track Detail Scale 1:40

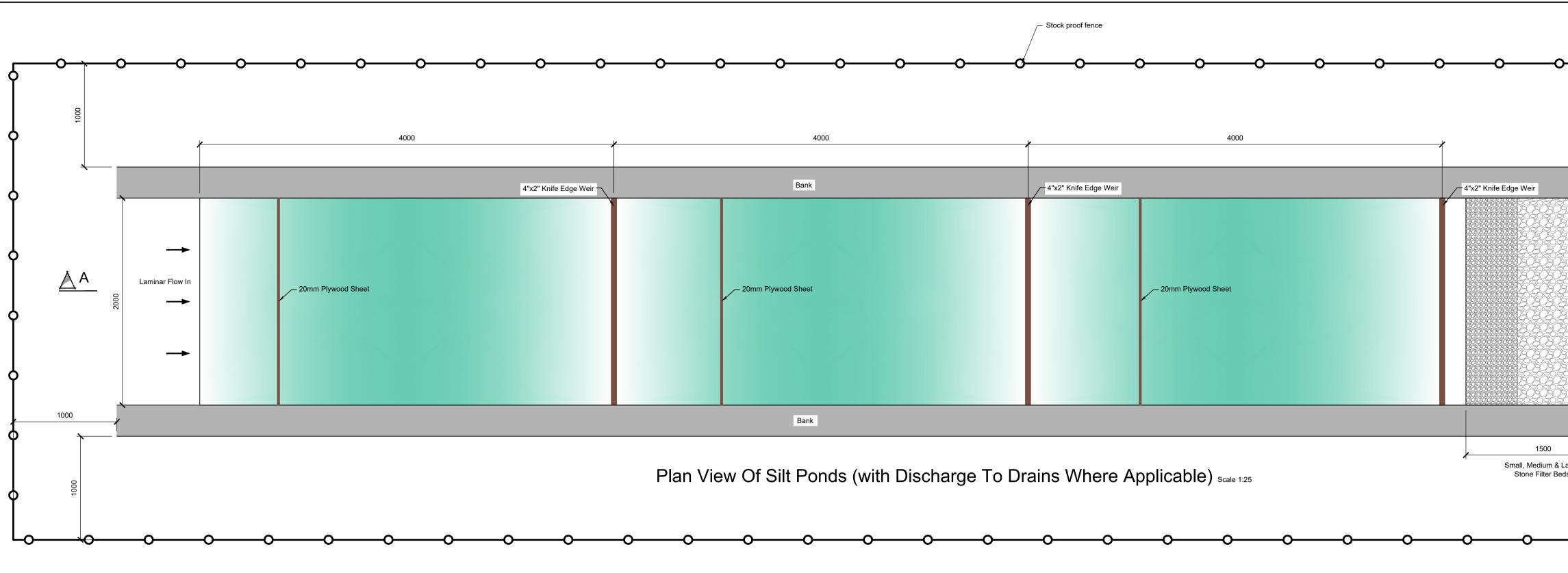
# Access Track Type 3 - Detail for Upgrading / Widening Existing Track Scale 1:40

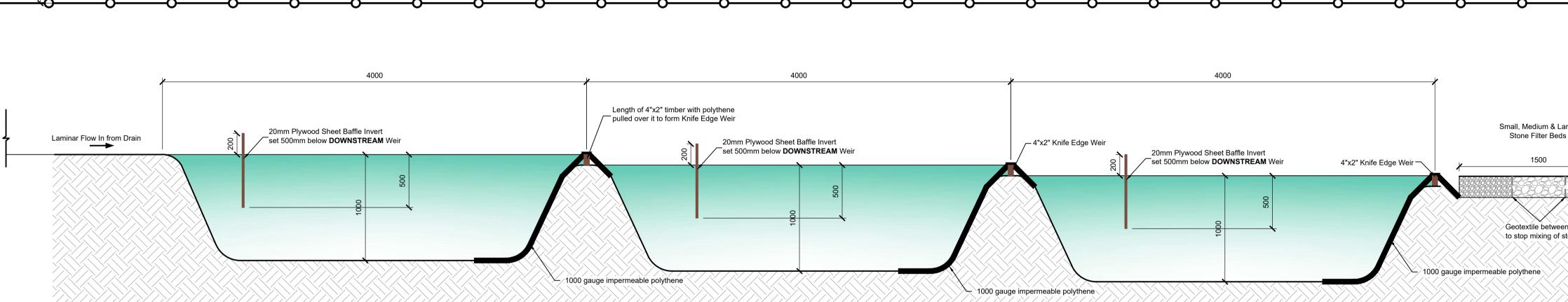
Passing Bay Plan Detail Scale 1:100

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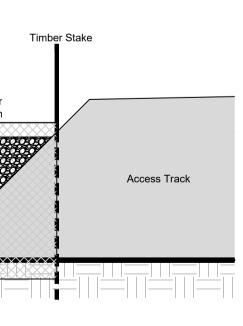




Baffle/Weir Detail

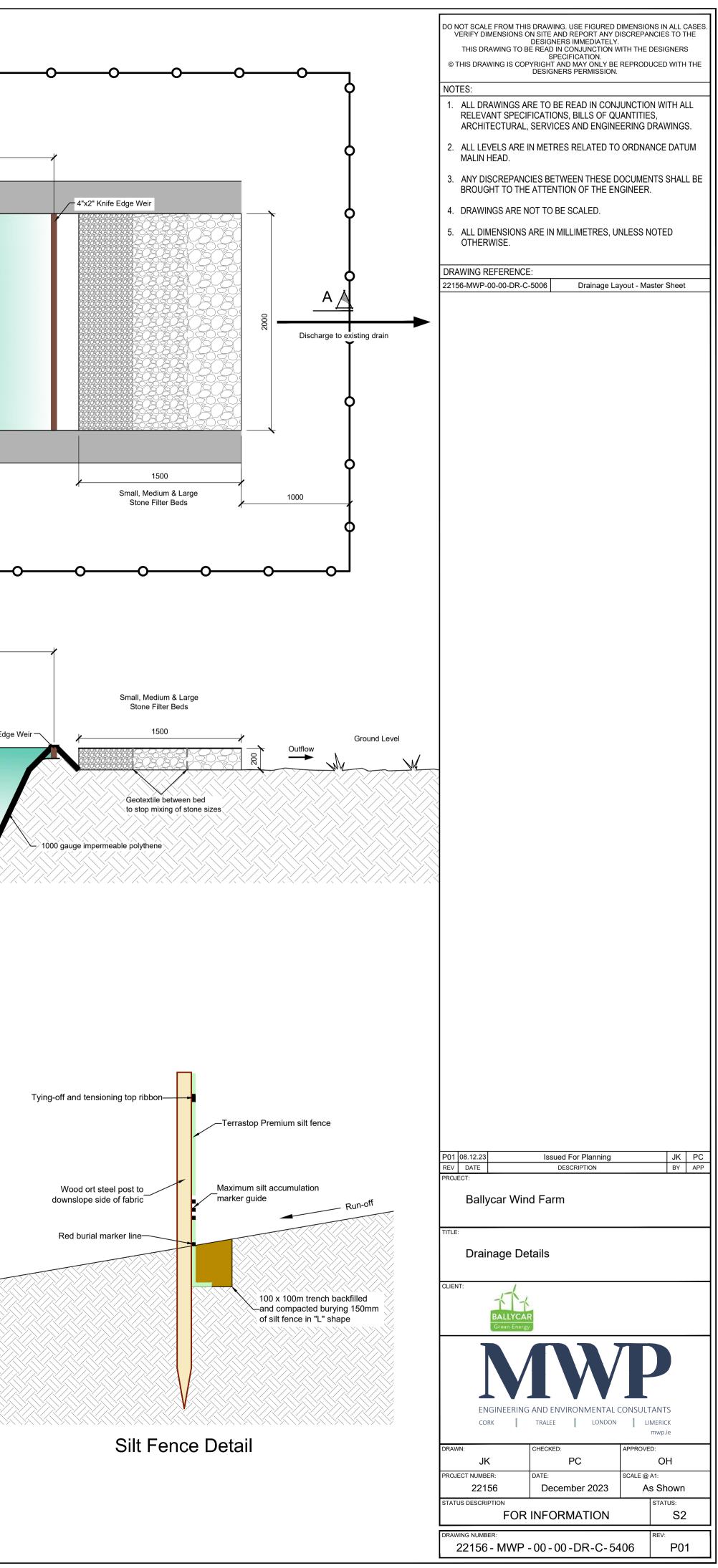
Sediment Fence Detail Scale 1:20

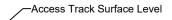
Section A-A Scale 1:25

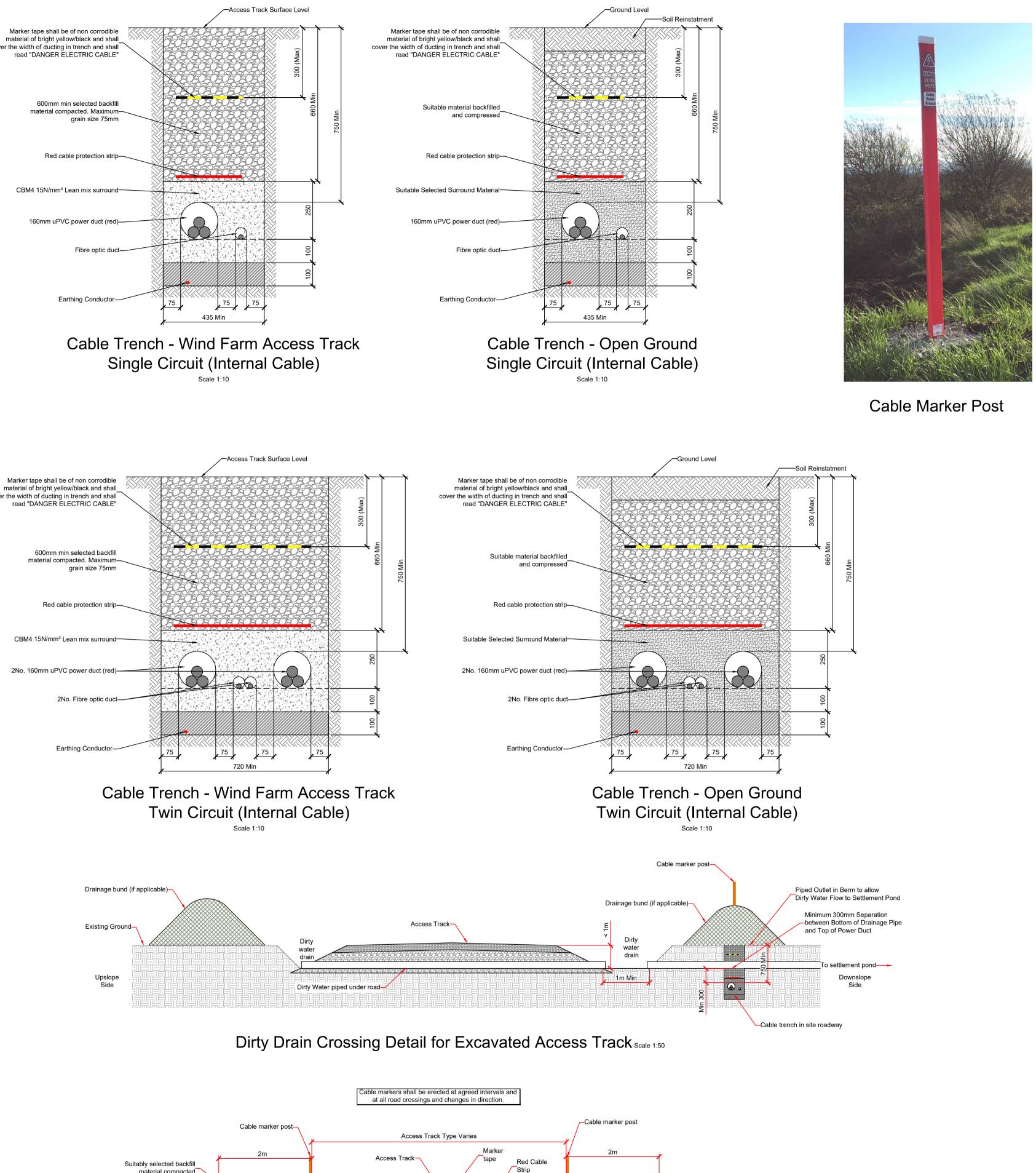


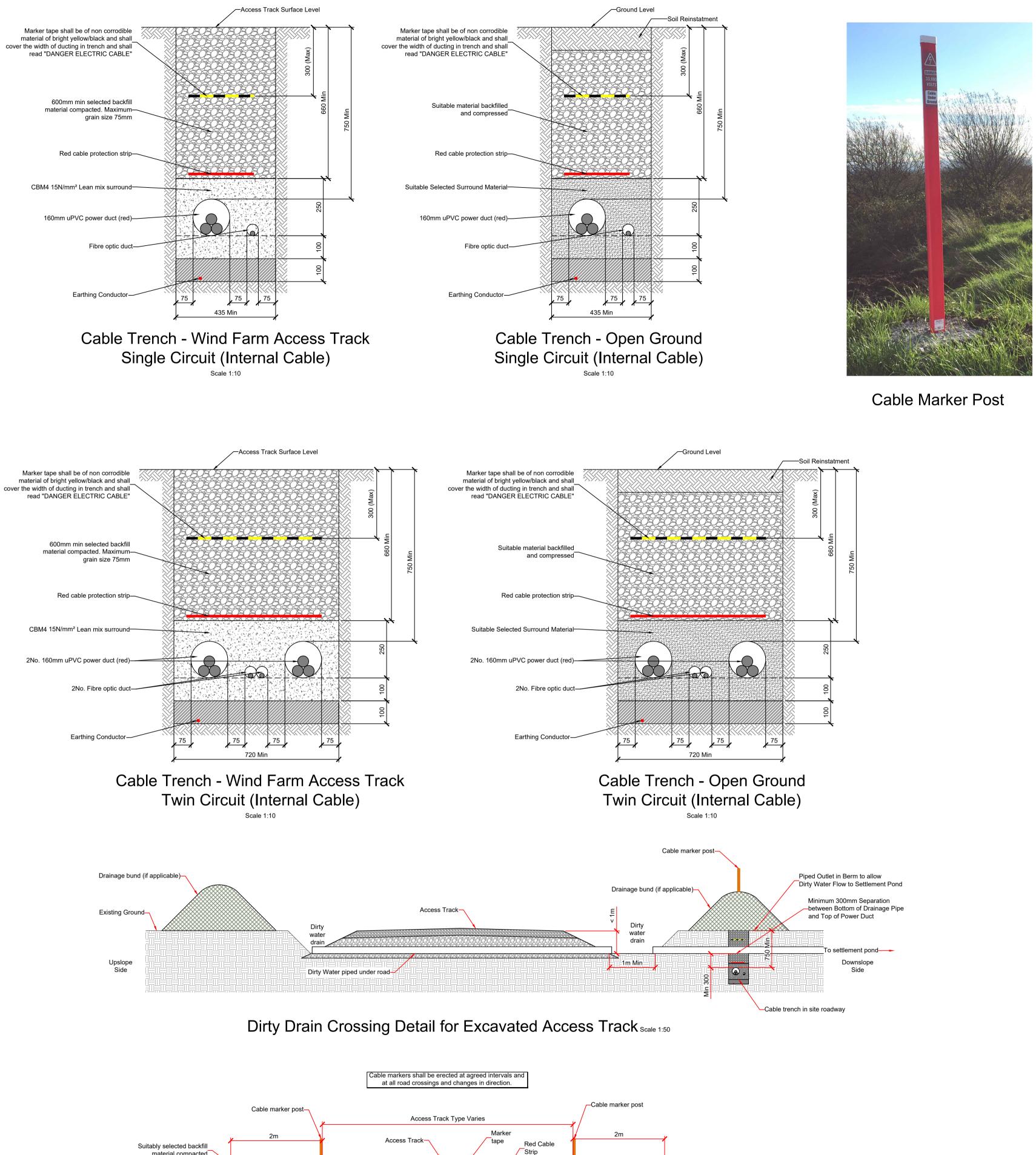


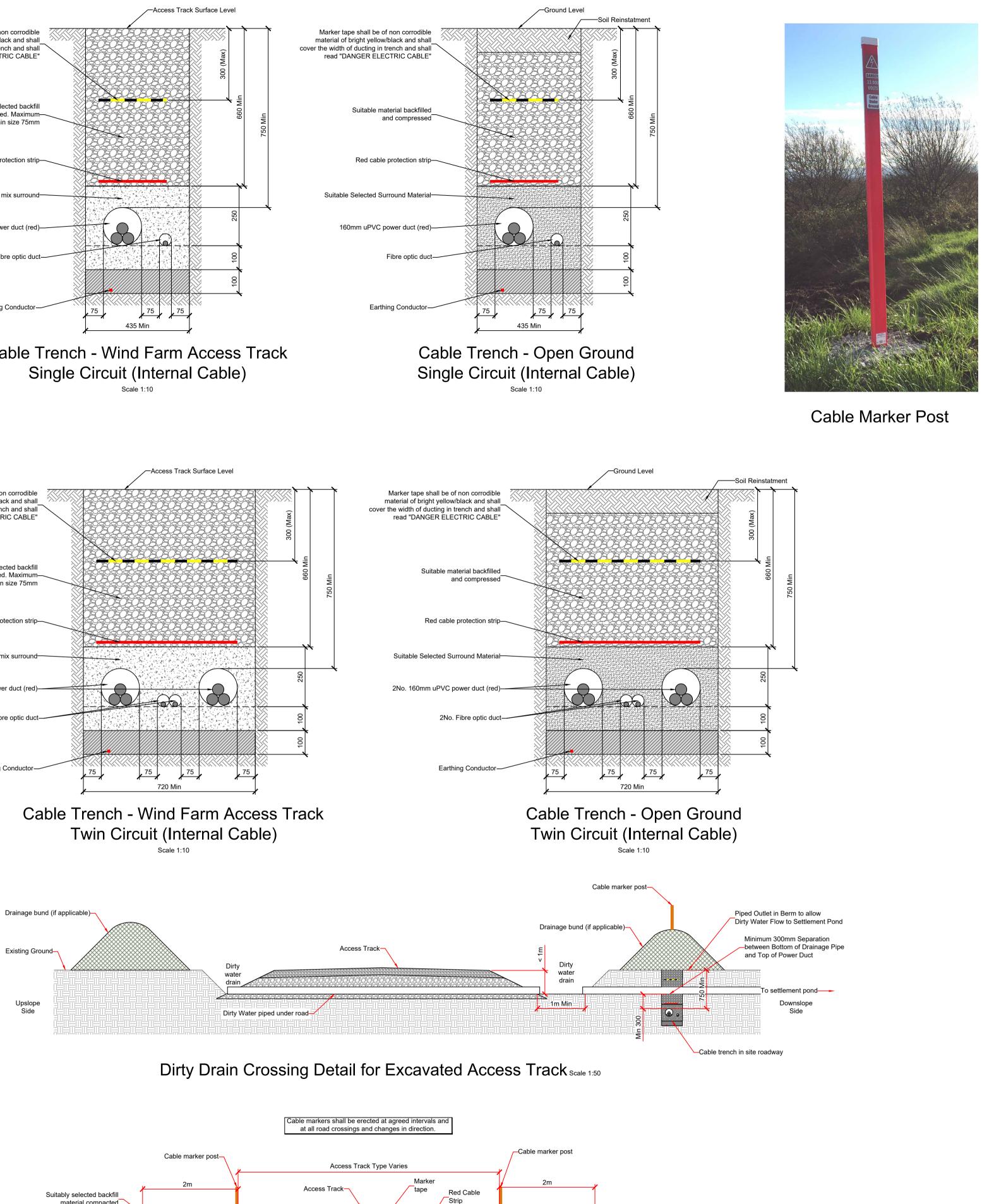
Completed Settling Pond System

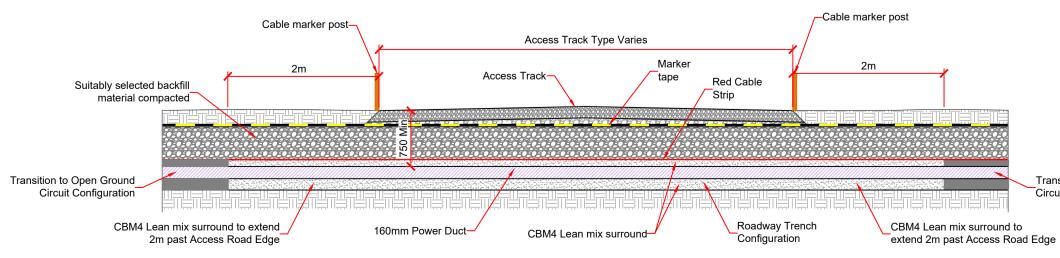








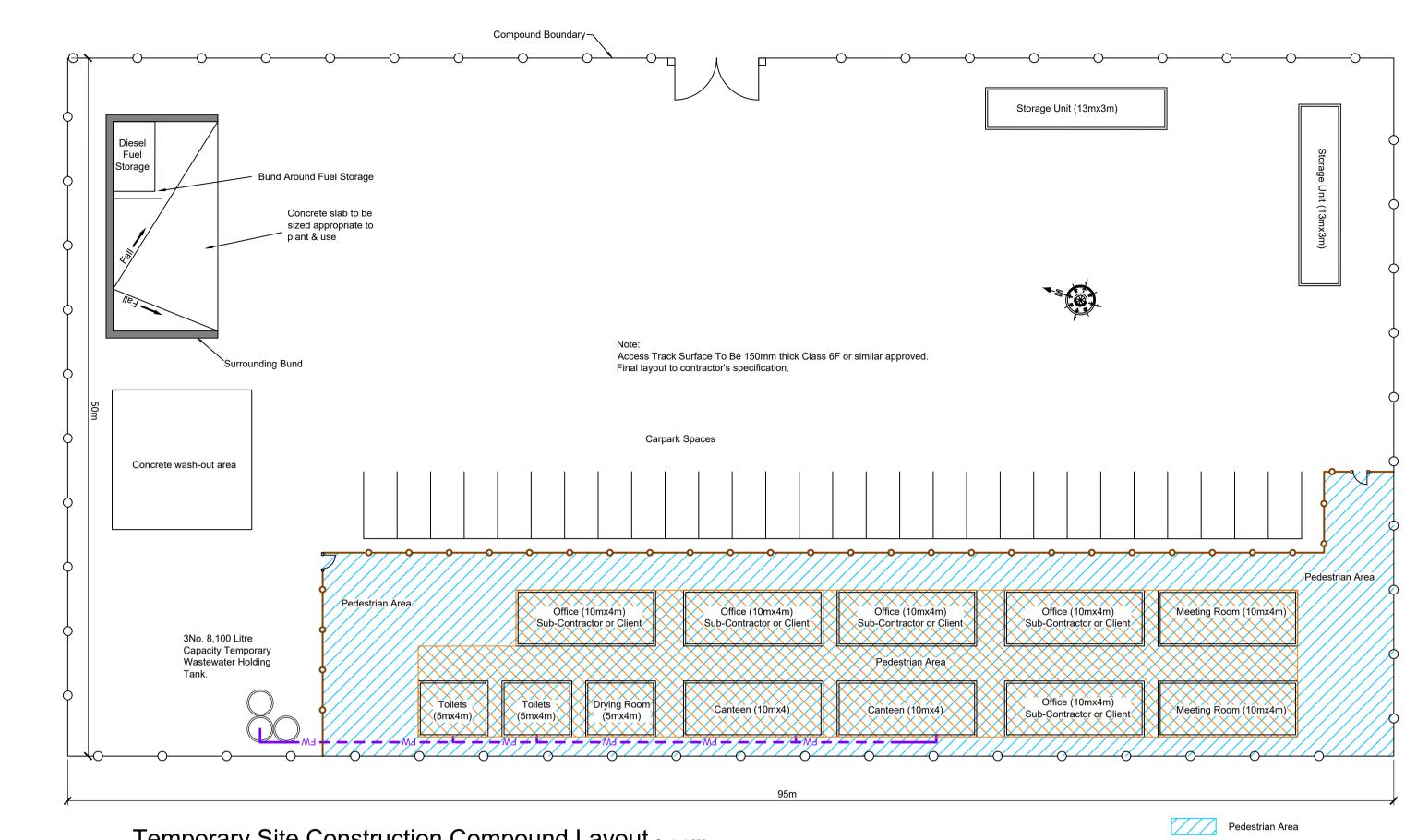


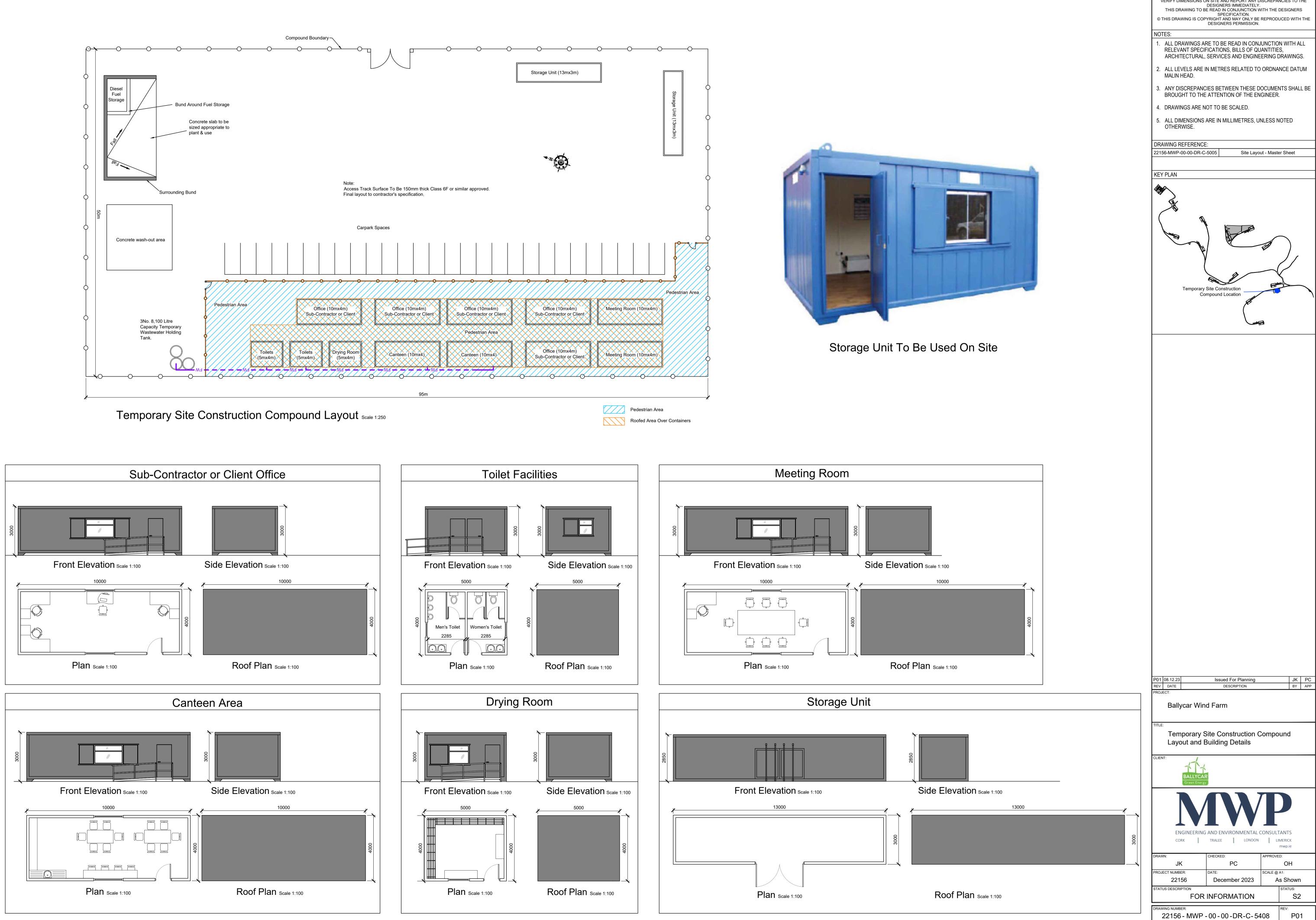


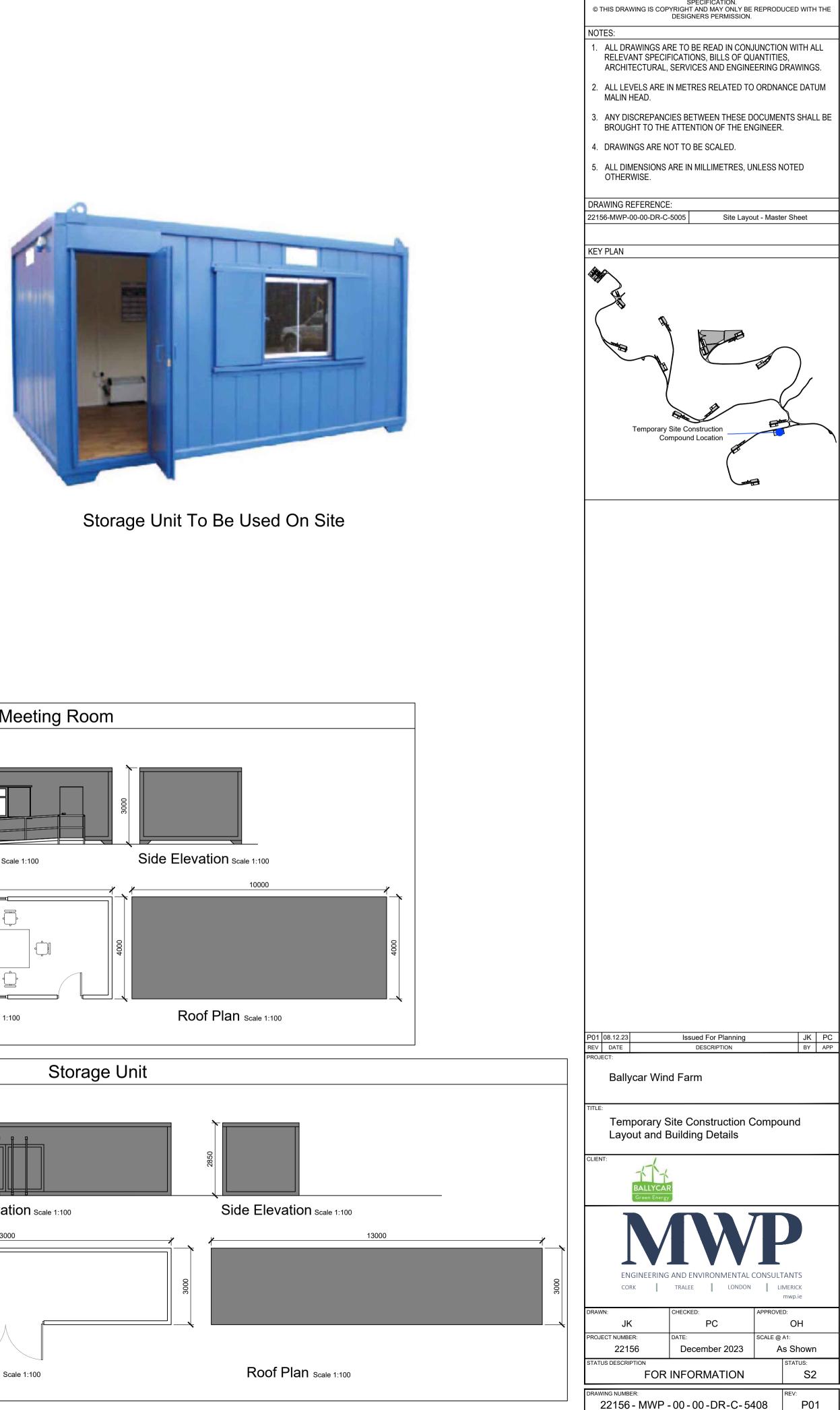
Cable Trench Crossing Detail under Access Track Scale 1:50

Transition to Open Ground Circuit Configuration

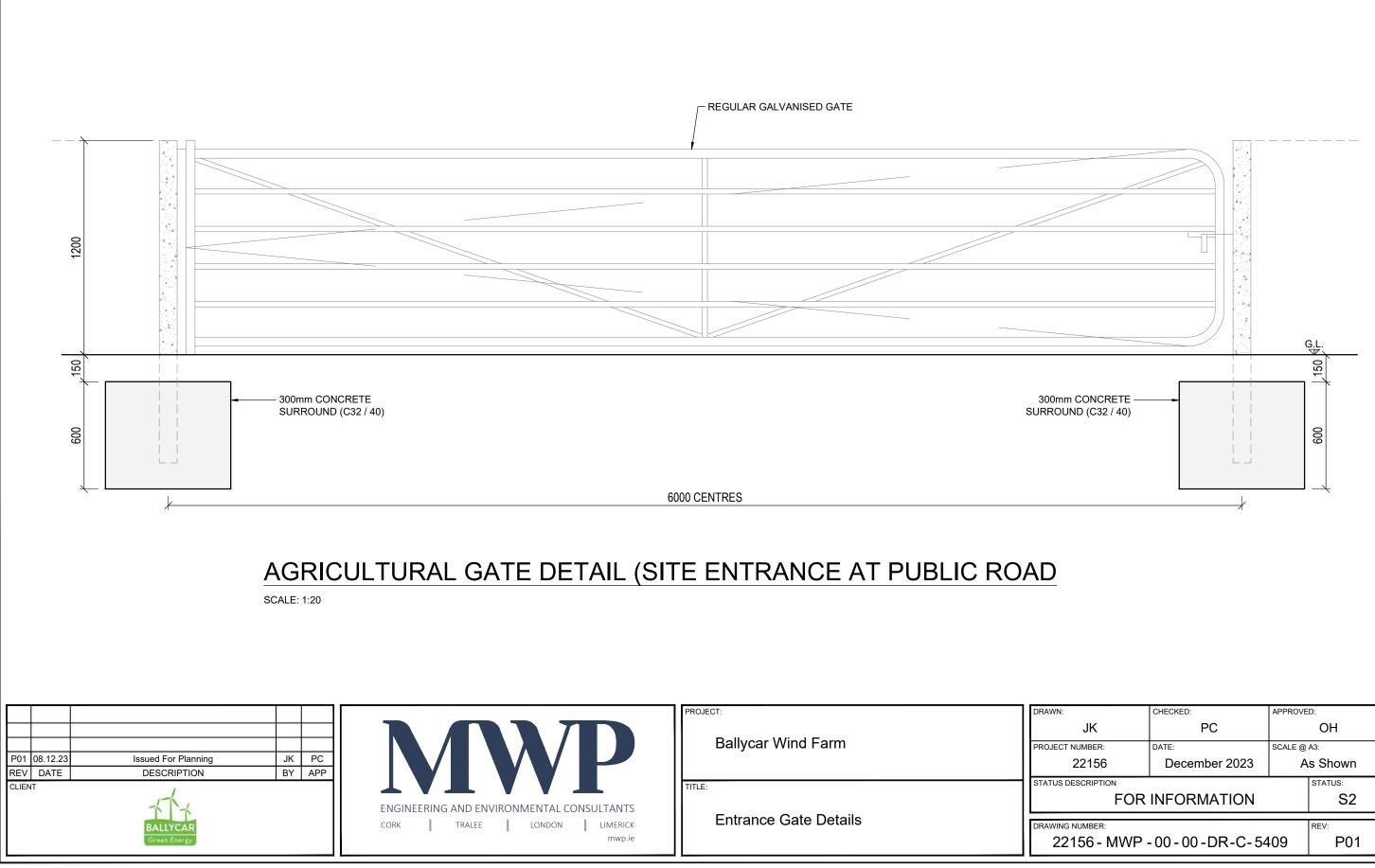
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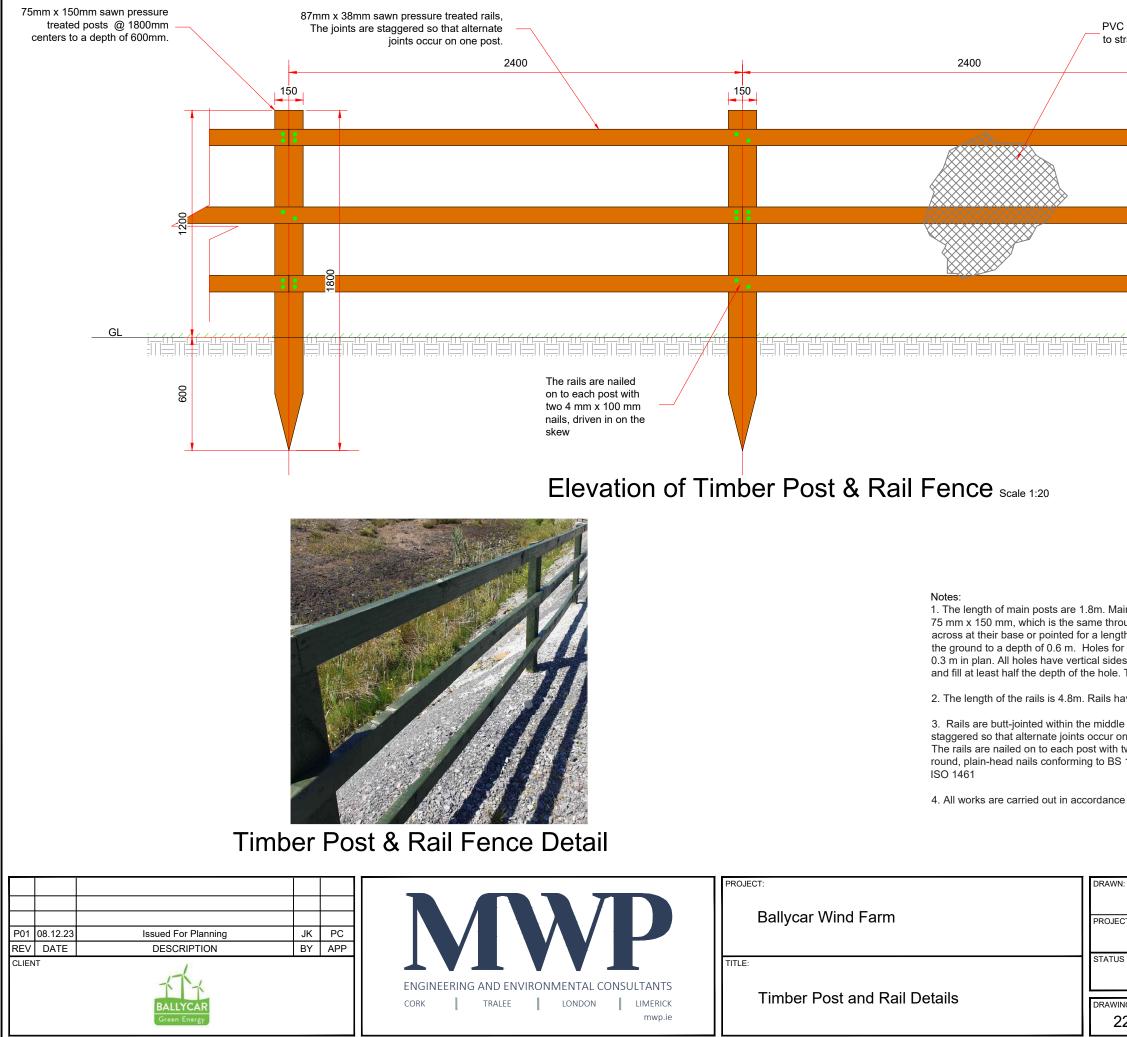




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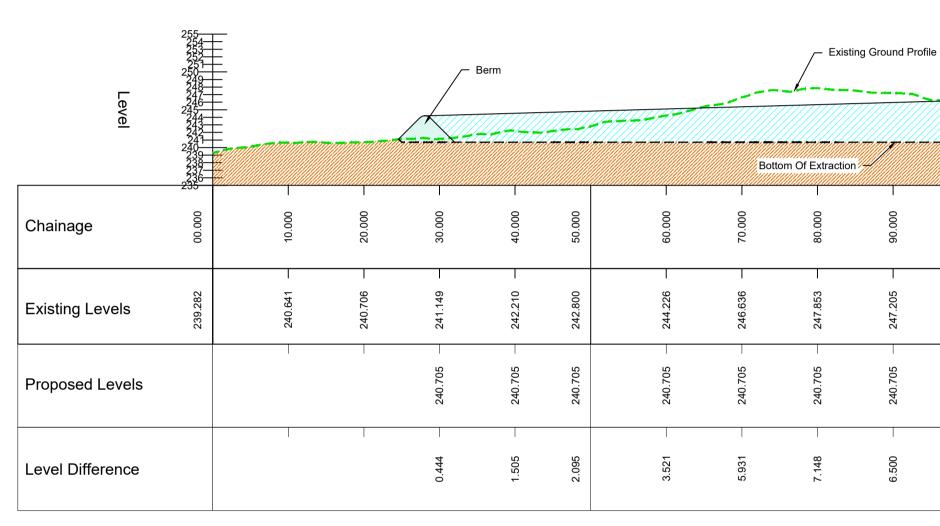


	n livestock areas) fixed galvanised steel wire	
150		
	100	
::	81	
	325	
	8	
•.	8	
	275	
::	81	
th not exceeding 225 r main posts set in co s. Posts are surroun	ss-section of They are either cut square 5 mm. Main posts are set v oncrete shall be not less th ded in leanmix concrete at e hole is filled with backfill.	vertically in nan 0.3 m x
ave a cross-section o	of 87 mm x 38 mm.	
	n face of a main post. The j	oints are
n one post. two 4 mm x 100 mm 1202-1 and hot-dip	nails, driven in on the skew galvanized in accordance v	v. Nails are with IS EN
e with IS EN 1722-7:	2006.	
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Ę	200000000000000000000000000000000000000		lean Water terceptor Drain		Existing Groun	d Profile							tone Extraction And urplus Spoil Material						
Level	252444 2524444 22244446 22244446 2224444 24444 24444 244 2	<del>1</del> 7 1 1	X												Bottom Of Extract			Berm	Existing Groun
Chainage	240 000 <sup>.</sup> 00	10.000	20.000	30.000	40.000	50.000			- 000.02	80.000	000.08	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000
Existing Levels	253.458	254.318	. 255.107 -	254.646	253.652	251.618	1	200.00	248.199	246.699	245.471 —	244.319	243.762	243.143 —	242.836	242.670	242.535	242.668	242.387
Proposed Levels		254.019	244.024 —	240.705 —	240.705 —	240.705		240.705	240.705 —	240.705 —	240.705 —	240.705	240.705	240.705 —	240.705	240.705 —	240.705	I	
Level Difference		0.299	11.083	13.941	12.947	10.913		0.0- 	7.494	5.994	4.766	3.614	3.057	2.438	2.131	1.965	1.830		

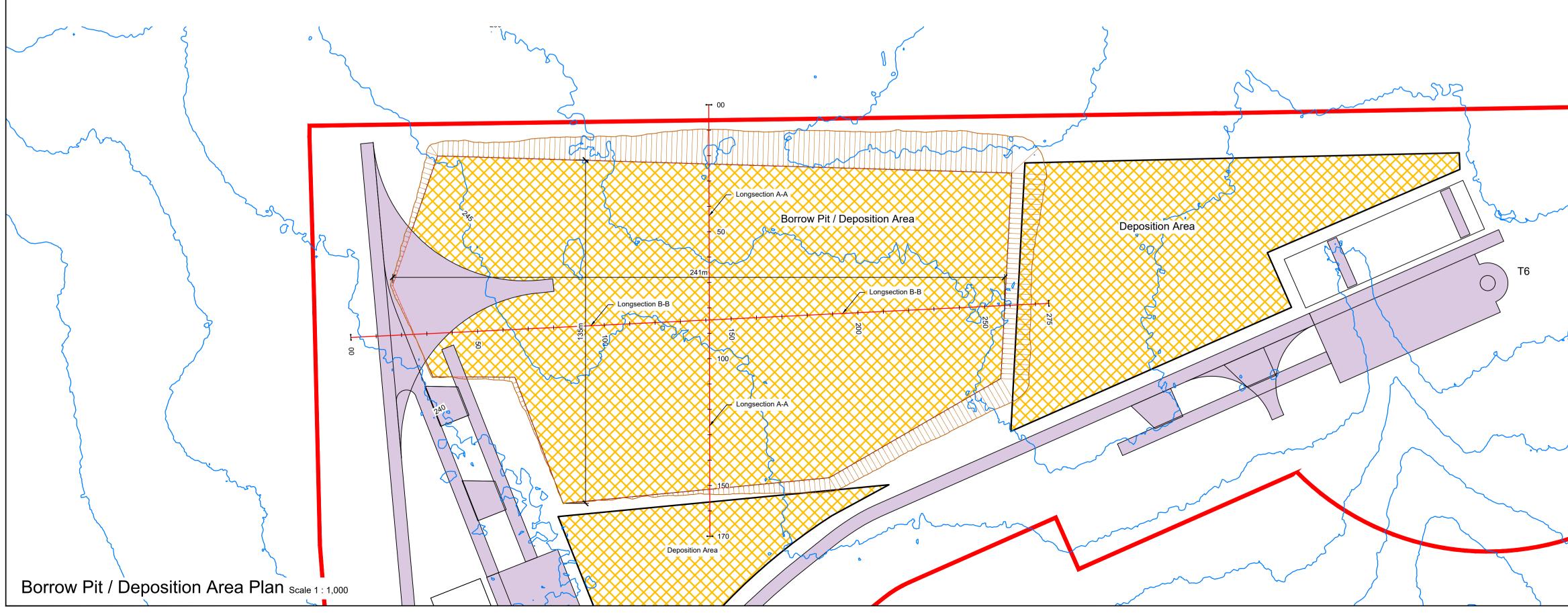
# LONGSECTION A-A

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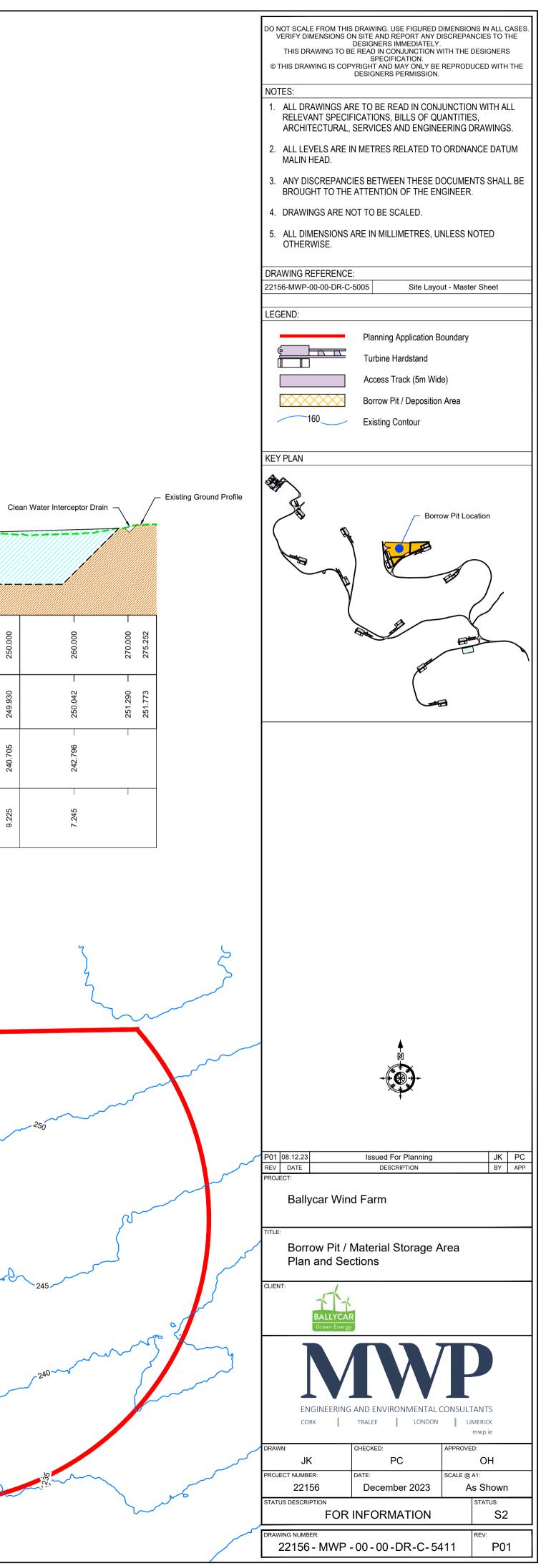


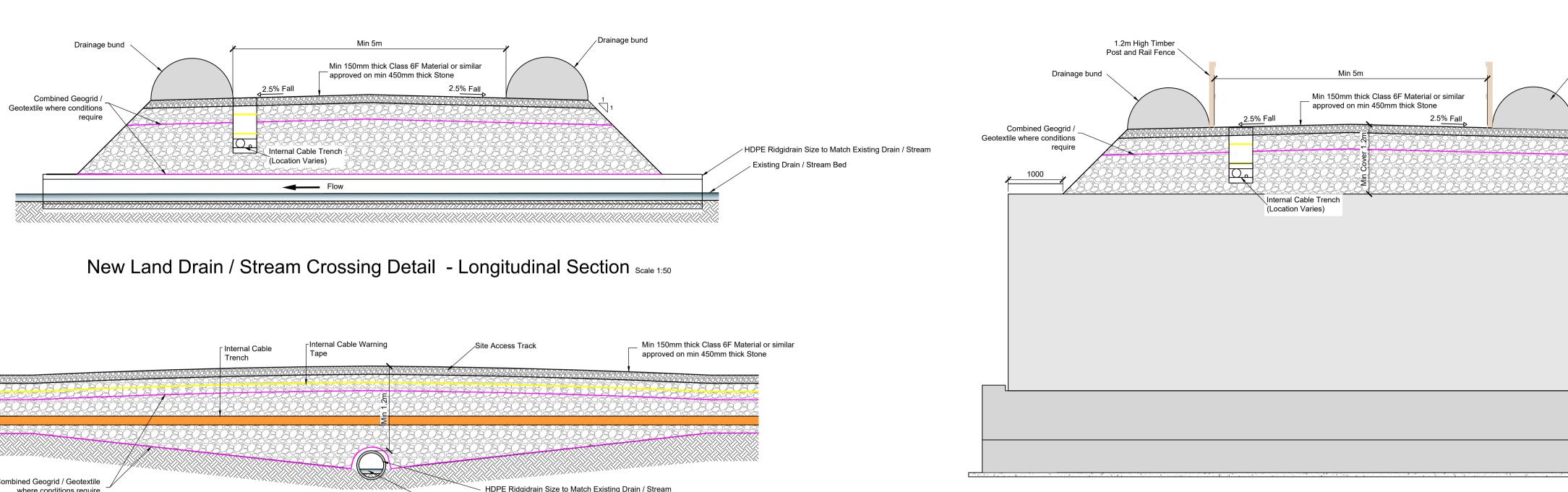
# LONGSECTION B-B

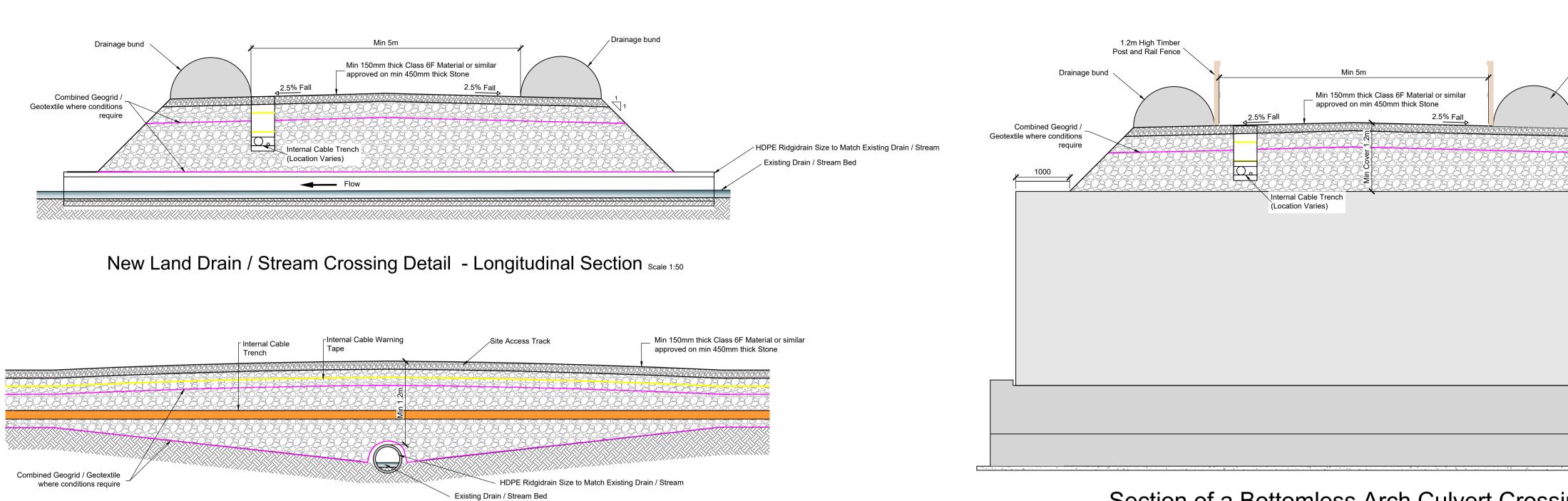
SCALE: H 1:500,V 1:500. DATUM: 235.000



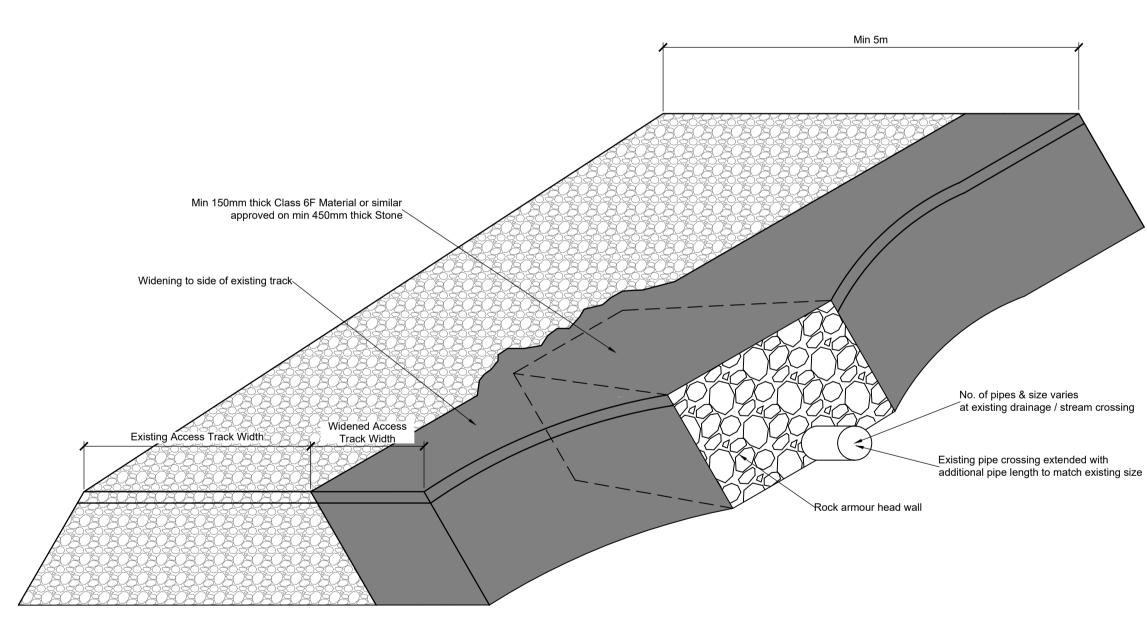
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 Existing Ground Portion
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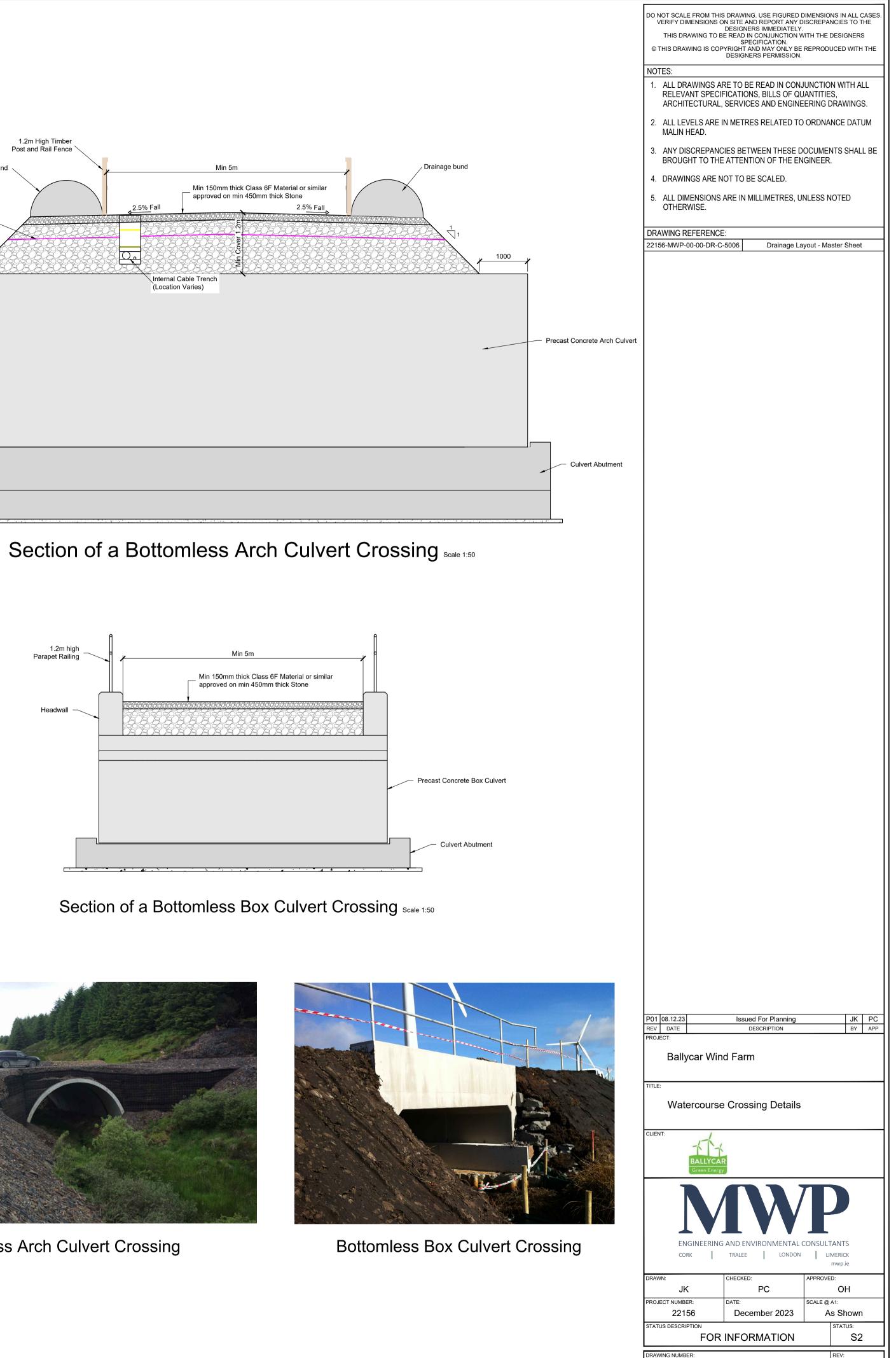




New Land Drain / Stream Crossing Detail - Cross Section Scale 1:50



Widening Detail of Existing Land Drain / Stream Crossing Detail Scale 1:50







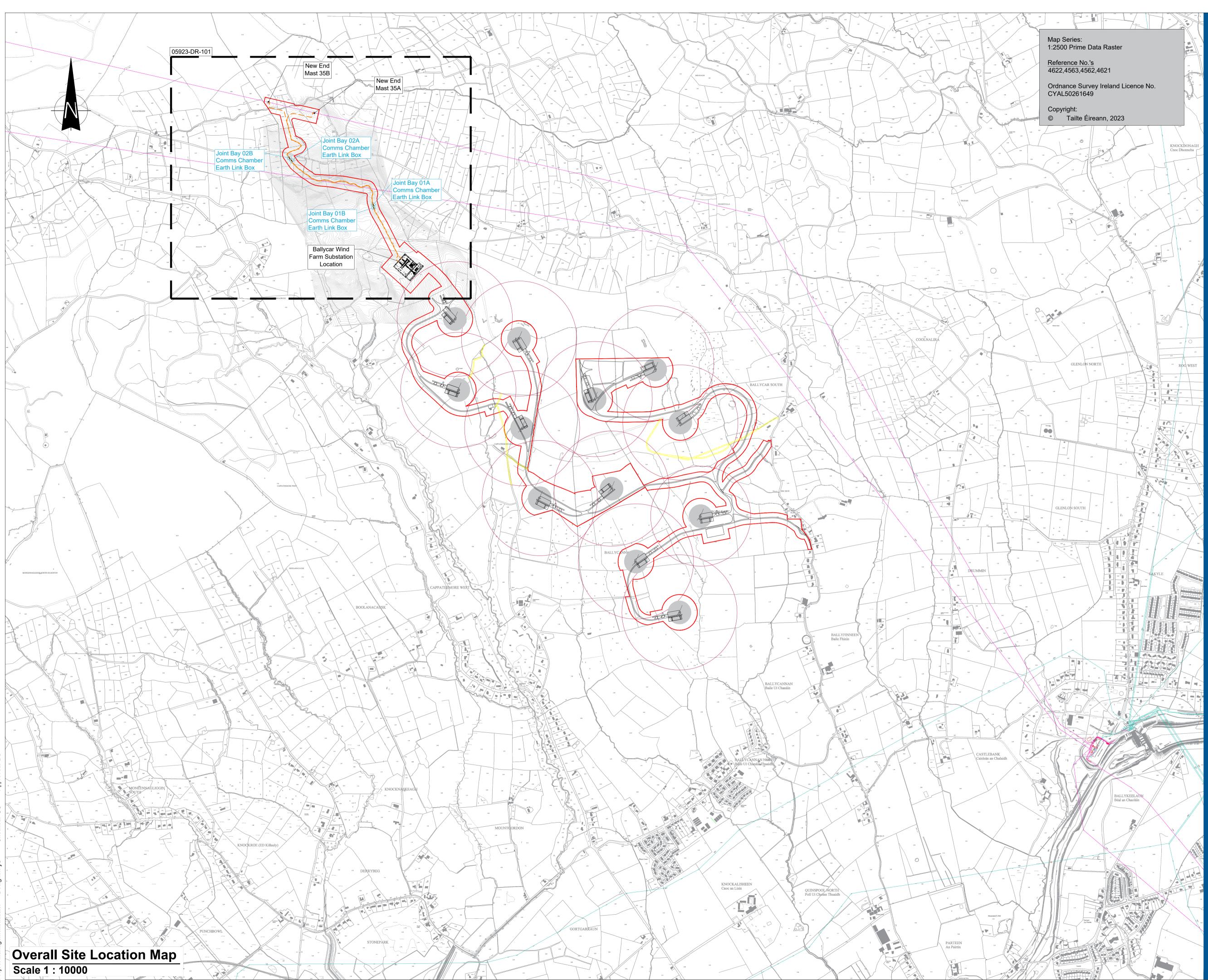
Bottomless Arch Culvert Crossing



22156 - MWP - 00 - 00 - DR - C - 5412

P01





oject Management Initials: Designer: JC Checked: GC



Head Office Beenreigh, Abbeydorney, Tralee, Co. Kerry Ireland Tel: 00353 66 7135710 Regional Office Basepoint Business Centre Stroudley Road, Basingstoke, Hampshire, RG24 8UP, UK Tel: 00 44 1256406664

# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

CLIENT



CONSULTANTS

NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- relevant drawings, specifications and reports.Drawings are not to be scaled use figured dimensions only.

# LEGEND: -

 Planning Application Boundary<br/>shown thus

 UG Cable Route shown thus (1.5 km)

 Overhead Line & End Mast

 Ballycar WF Turbine Location

 Turbine Falling Distance shown thus<br/>(2 × Rotor Diameter)

 Joint Bay Locations shown thus

 Existing ESB OHL & UGC HV Network

 Contours

 Wayleave

## **ISSUE/REVISION**

P8	19.01.24	Issued for Planning
Ρ7	12.01.24	Issued for Planning
P6	12.12.23	Issued for Planning
P5	05.12.23	Issued for Planning
P4	06.11.23	Issued for Planning
P3	24.05.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	27.10.23	Issued for Information
I/R	DATE	DESCRIPTION

# PROJECT NUMBER

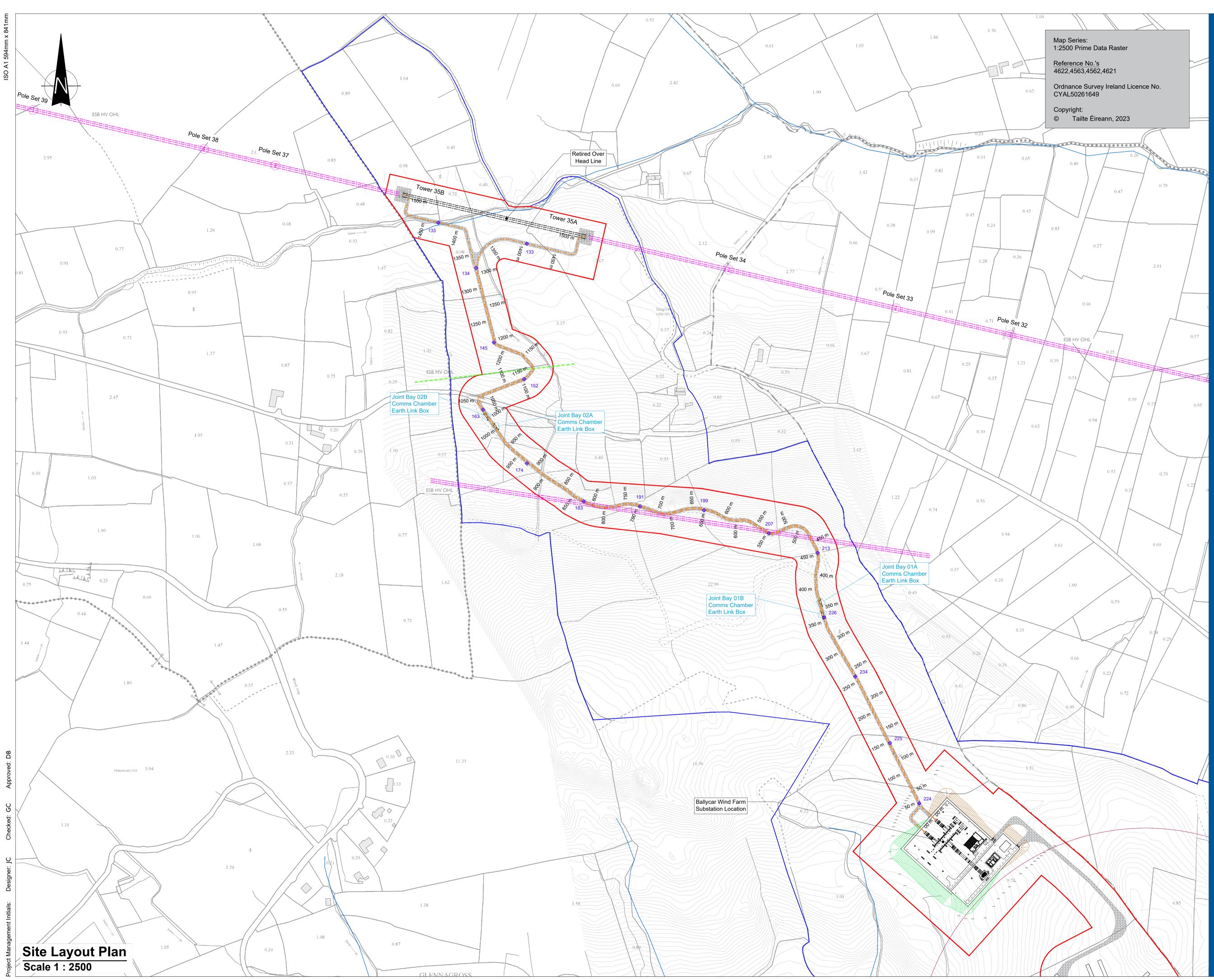
05-923

SHEET TITLE

Overall Site Location Map

# SHEET NUMBER







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# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

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### NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
  Drawings are not to be scaled use figured dimensions only. • Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site
- conditions.
- Other services may be encountered along the route.
  This drawing is to be used only for the purpose of the planning application and is subject to detailed design.
  All levels are in m O.D unless noted otherwise

# LEGEND: -

Planning Application Boundary shown thus Land Holding Boundary shown thus	
UG Cable Route shown thus (1.5 km)	
Overhead Line & End Mast	
Ballycar WF Turbine Location	Т
Turbine Falling Distance shown thus (2 x Rotor Diameter)	$\bigcirc$
Joint Bay Locations shown thus	
Culvert Crossing shown thus	
Existing ESB OHL & UGC HV Network	
Existing ESB MV Networks shown thus	
Existing levels shown thus	<b>⊕</b> 79.617
Existing Rivers & Streams	
Cut Volume	
Fill Volume	
Access track	10000000000
Contours	
ISSUE/REVISION	

## **ISSUE/REVISION**

P5	19.01.24	Issued for Planning
P4	12.01.24	Issued for Planning
P3	12.12.23	Issued for Planning
P2	05.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

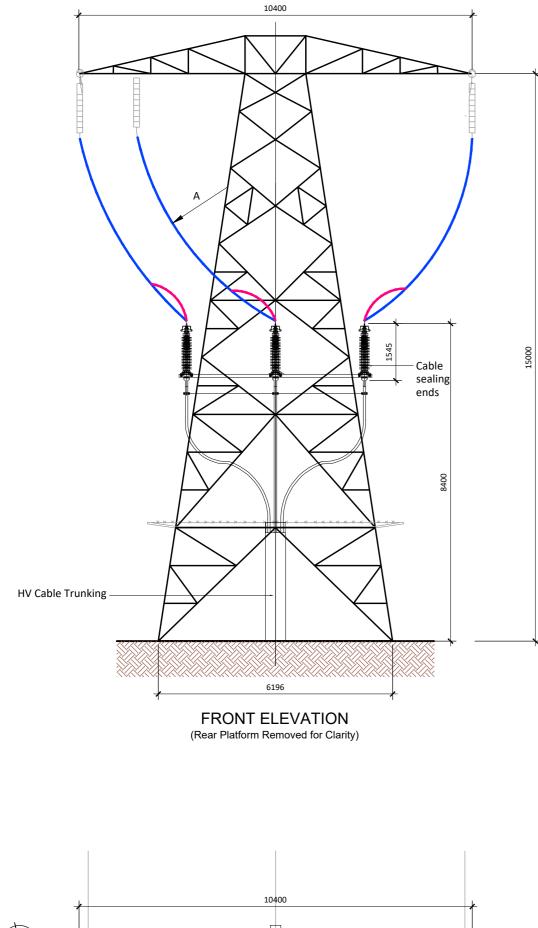
# PROJECT NUMBER

05-923

SHEET TITLE

Site Layout Plan

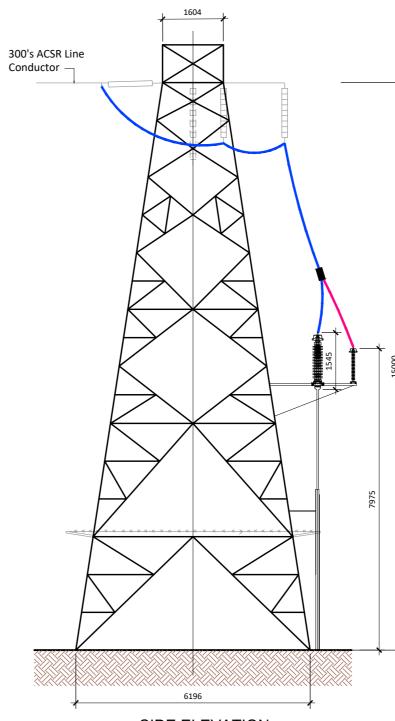
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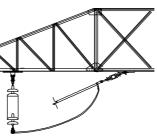
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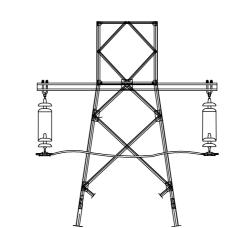
SECTION 1-1

DB



SIDE ELEVATION





SECTION 2-2



## PROJECT

Ballycar Wind Farm 110kV UGC Grid Connection

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NOTES: -

LEGEND: -

#### ISSUE/REVISION

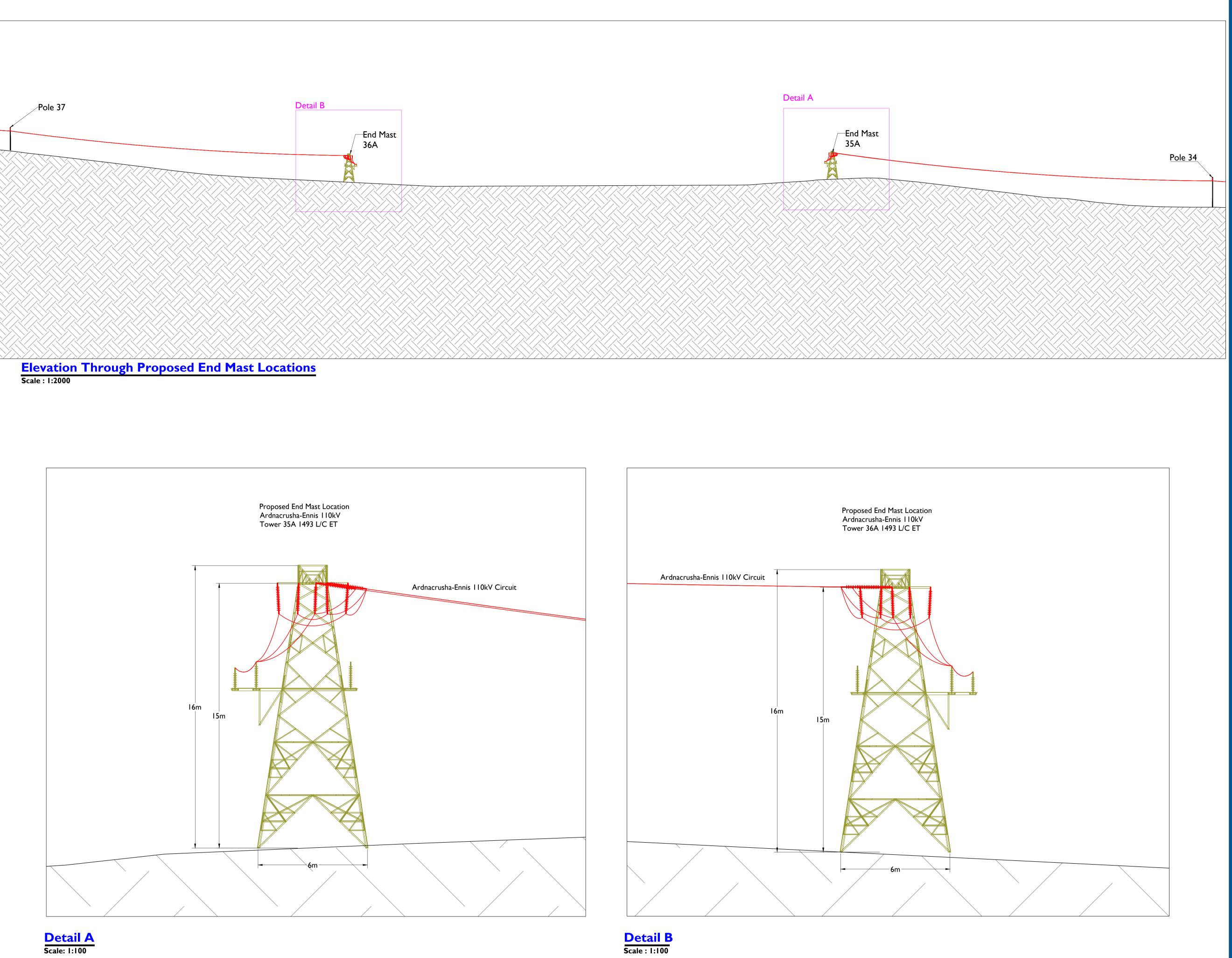
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P1	06.11.23	Issued for Planning					
I/R	DATE	DESCRIPTION					
PR	PROJECT NUMBER						

05-923

SHEET TITLE

End Mast Details

SHEET NUMBER





Head Office Beenreigh, Abbeydorney, Tralee, Co. Kerry

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 Tralee, Co. Kerry
 Hampshire,

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 Tel: 00353 66 7135710
 Tel: 00 44 1256406664

PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

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NOTES: -

- This drawing is to be read in conjuction with relevant drawings, specifications and reports.
- Dimensions are in metres, unless noted otherwise.
- Drawings are not to scale, use figured dimensions only.
  Drawing to be read in conjunction with Construction Methodology.

LEGEND: -

Proposed Towers

# **ISSUE/REVISION**

12.01.24	Issued for Planning
12.12.23	Issued for Planning
06.11.23	Issued for Planning
DATE	DESCRIPTION
	12.12.23 06.11.23

# PROJECT NUMBER

05-923

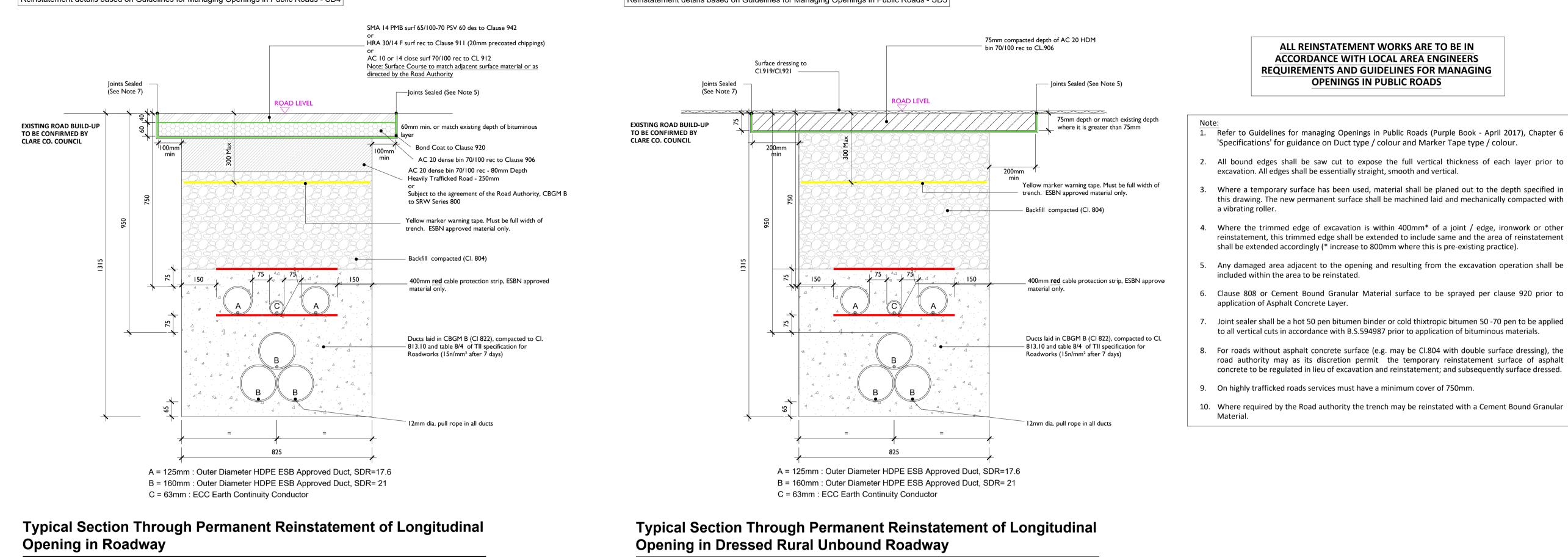
SHEET TITLE

Elevation View of Proposed **Tower Locations** 

# SHEET NUMBER

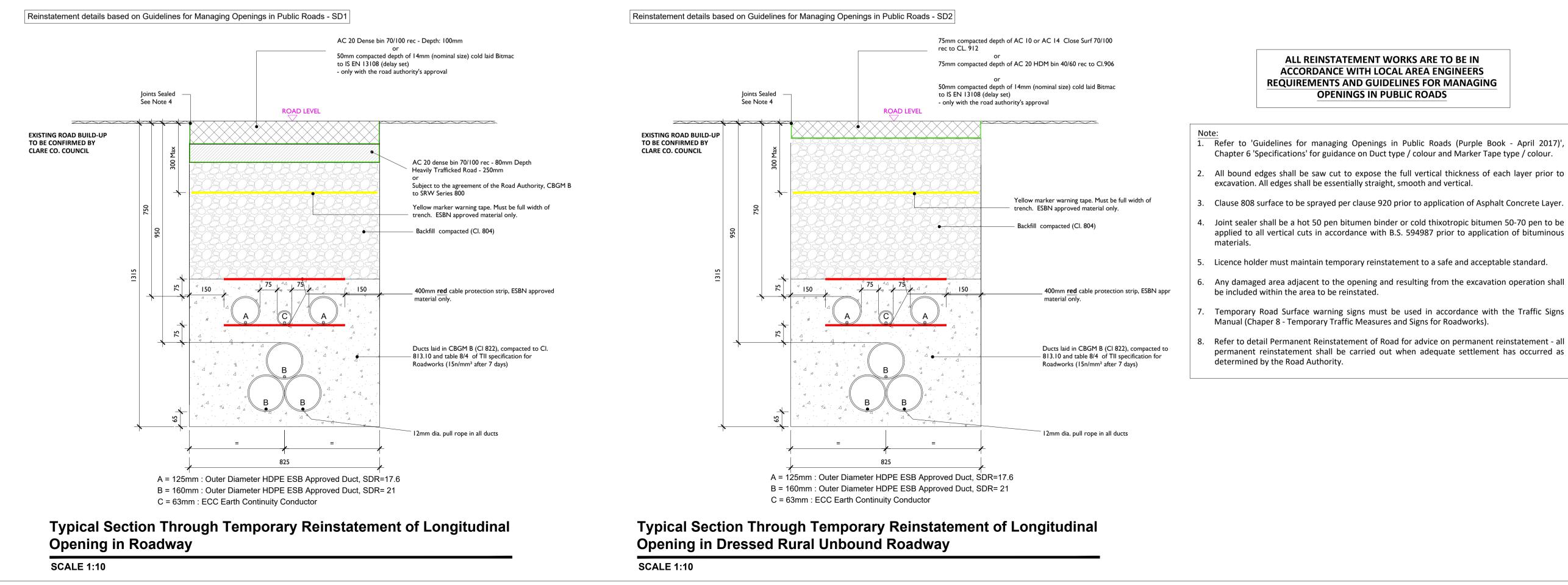
# **Permanent Reinstatement**

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4



**SCALE 1:10** 

# **Temporary Reinstatement**



# Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5

**SCALE 1:10** 

# ACCORDANCE WITH LOCAL AREA ENGINEERS **REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS**

1. Refer to Guidelines for managing Openings in Public Roads (Purple Book - April 2017), Chapter 6

3. Where a temporary surface has been used, material shall be planed out to the depth specified in this drawing. The new permanent surface shall be machined laid and mechanically compacted with

4. Where the trimmed edge of excavation is within 400mm\* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement

5. Any damaged area adjacent to the opening and resulting from the excavation operation shall be

6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to

Joint sealer shall be a hot 50 pen bitumen binder or cold thixtropic bitumen 50 -70 pen to be applied to all vertical cuts in accordance with B.S.594987 prior to application of bituminous materials.

8. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.

10. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular

#### ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS **REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS**

1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.

3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.

applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous

5. Licence holder must maintain temporary reinstatement to a safe and acceptable standard.

6. Any damaged area adjacent to the opening and resulting from the excavation operation shall

7. Temporary Road Surface warning signs must be used in accordance with the Traffic Signs

8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement - all permanent reinstatement shall be carried out when adequate settlement has occurred as



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# PROJECT

Ballycar Wind Farm 110kV UGC Grid Connection

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CONSULTANTS

## NOTES: -

This drawing is to be read in conjunction with relevant
drawings, specifications and reports
Dimensions are in millimeters, unless noted otherwise
Drawings are not to be scaled use figured dimensions only

Drawings are not to be scaled use figured dimensions only Geogrid may be implemented along the cable trench route where deemed necessary by the contractor or as required by Clare County Council

LEGEND: -

## **ISSUE/REVISION**

P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
l/R	DATE	DESCRIPTION

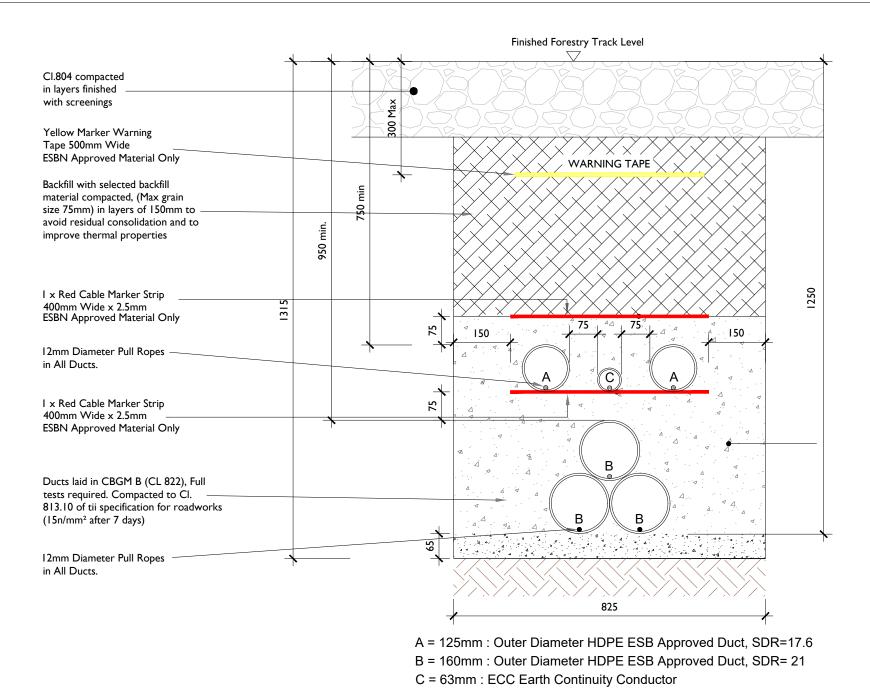
## **PROJECT NUMBER**

05-923

SHEET TITLE

Typical Ducting Through Regional / Local Roadways

## SHEET NUMBER



**Ducting Through Forestry Track** 

ALL REINSTATEMENT WORKS ARE TO BE IN

ACCORDANCE WITH LANDOWNERS REQUIREMENTS

#### **SCALE 1:10**

#### Note:

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured ٠ dimensions only



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PRO	JECT
D-	

Ballycar Wind Farm 110 kV UGC Grid Connection

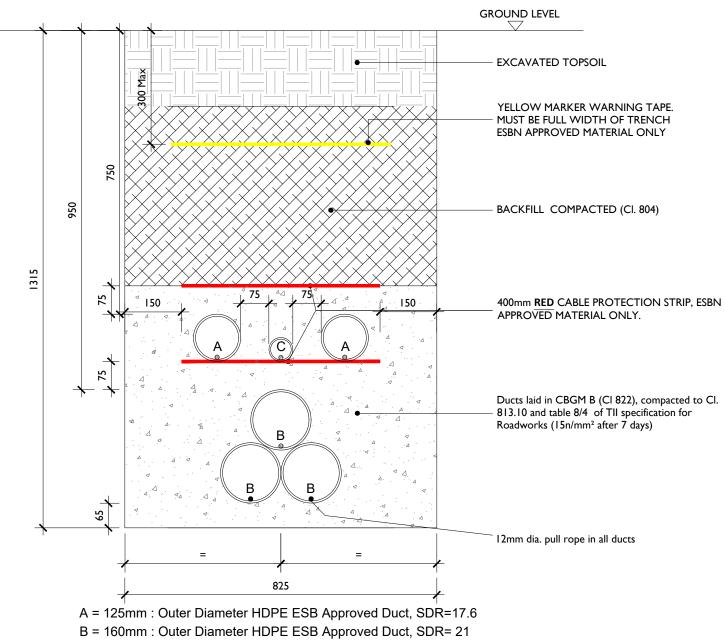
PROJECT NUMBER SHEET NUMBER 05-923 05923-DR-111 SHEET TITLE

Ducting through Forestry Track

DRAWING STATUS For Planning

P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

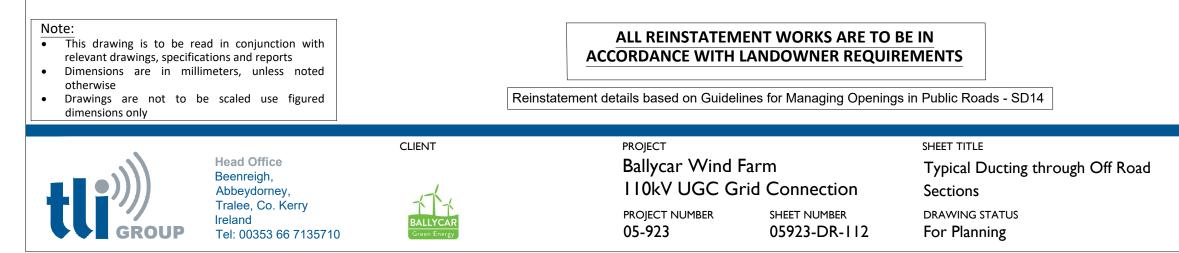
ISSUE/REVISION



C = 63mm : ECC Earth Continuity Conductor

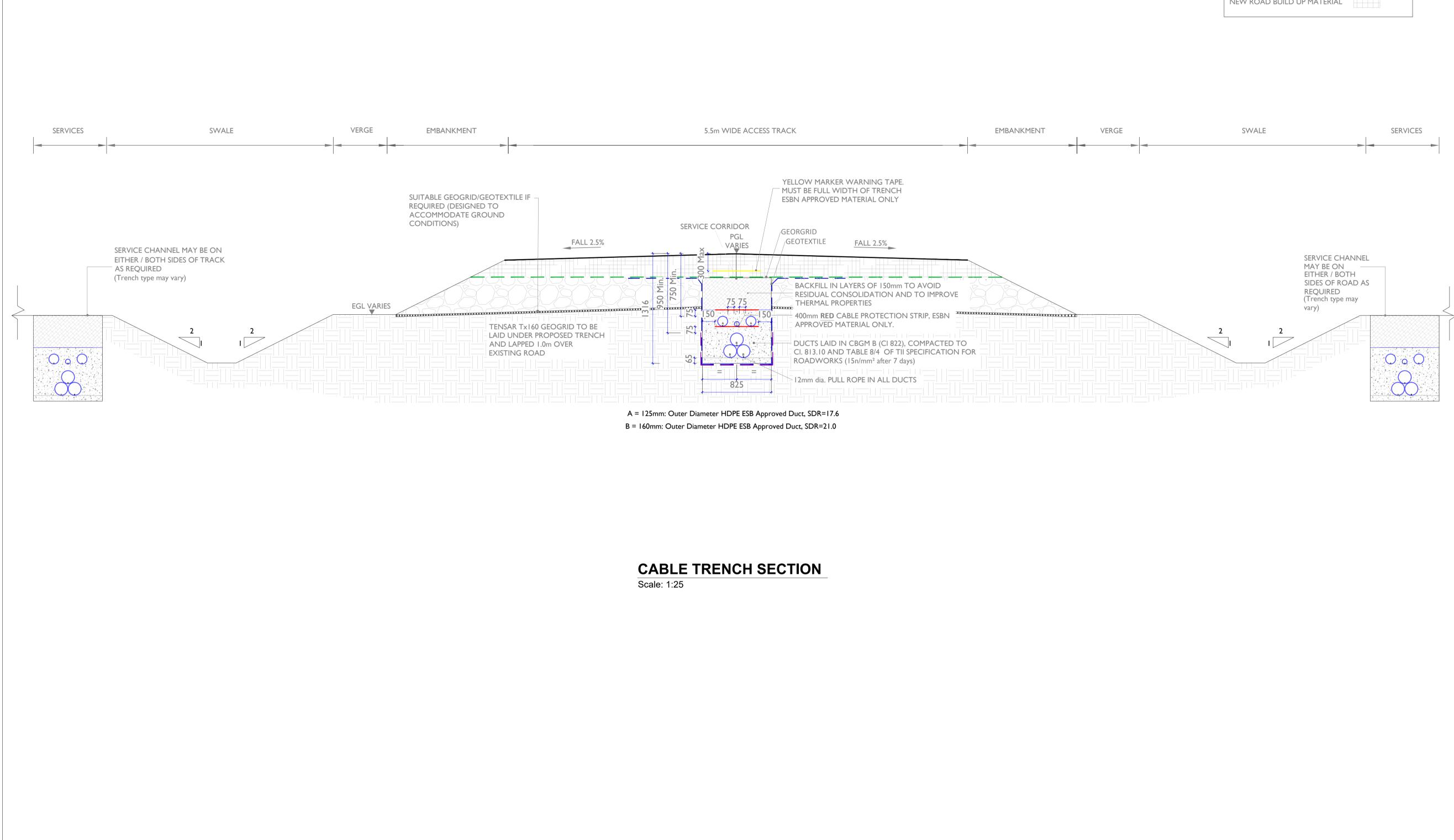
# **Typical Section Through Private Lands**

#### **SCALE 1:10**



ent	Initials:	Designe
CIII	minuais.	Designe

ISSUE/REVISION		
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION



- NOTES: I. This drawing is to be used for EirGrid design approval only and is not to be used for construction.
- 2. For further information reference the latest versions of EirGrid Dr. No. XDC-CBL-STND-H-007 & Functional Specifications in addition to all other relevant
- documentation. 3. Dimensions are in millimeters, unless noted otherwise.
- 4. Drawings are not to be scaled, use figured dimensions only.
- 5. Track-markings to be agreed with the county council and reinstated. 6. Track surfacing build-up and tie in with non floating track sections to be agreed with
- the county council.
  - LEGEND:
  - SECUGRID TENSAR T
  - GEOTEXTI
  - BASE WEAR

  - PEAT COM
  - **EXISTING I**
  - NEW ROAD

0 40/40 GEOGRID		 	
×160 GEOGRID		 	
ILE		 	
RING COURSE			
1POSITION			
MATERIAL			
D BUILD UP MATE	RIAL		

GROUP

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# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

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NOTES: -

Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.

Other services may be encountered along the route. This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

LEGEND: -

### **ISSUE/REVISION**

P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

## PROJECT NUMBER

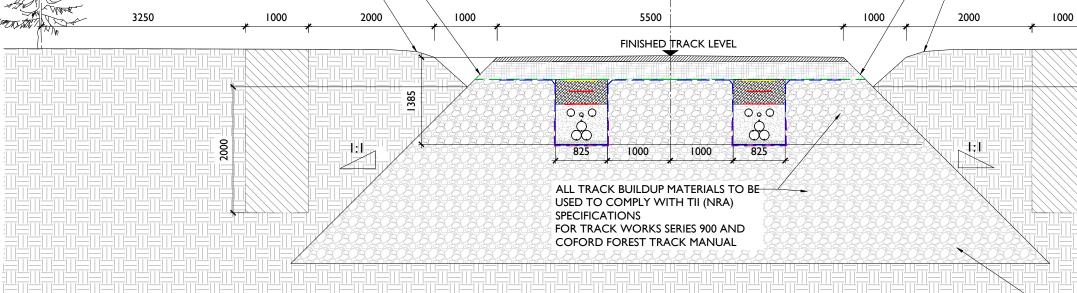
05-923

SHEET TITLE

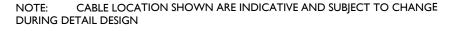
Typical 110kV Ducting through Existing Floating Track

### SHEET NUMBER

Tree Clearance 20.0m Min -DRAINAGE DITCH SERVICE CORRIDOR **EXISTING GROUND** DRAINAGE DITCH EXISTING GROUND



#### **Forestry Fire-Break Track Section**



Scale : 1:30

#### Note:

LEGEND:

GEOTEXTILE

SECUGRID 40/40 GEOGRID TENSAR Tx160 GEOGRID

BASE WEARING COURSE

NEW TRACK BUILD UP MATERIAL

EXISTING MATERIAL

- 1. This drawing is subject to planning approval and should not be used for construction.
- This drawing is to be read in conjunction with relevant drawings, specifications and reports. 2.
- 3. Dimensions are in millimeters, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only. 4.
- 5. Underground cable circuit spacing to be determined during detailed design, road layout may change during detailed design with site investigation results.



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#### PROJECT

**Ballycar Wind Farm** 110kV UGC Grid Connection

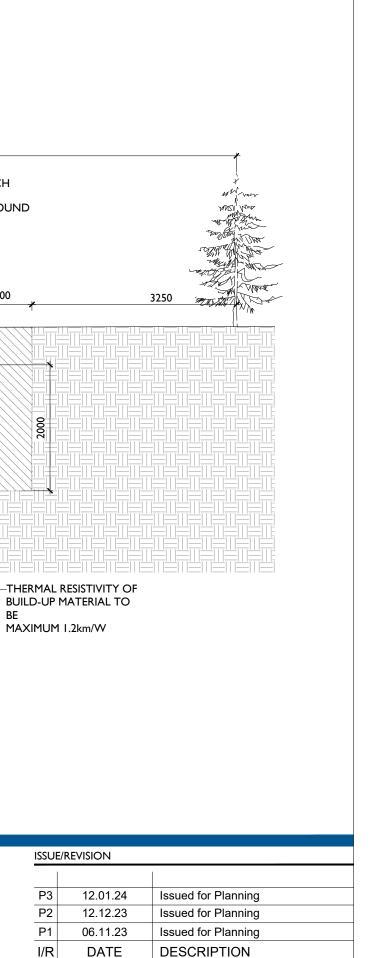
SHEET NUMBER

05923-DR-115

PROJECT NUMBER 05-923

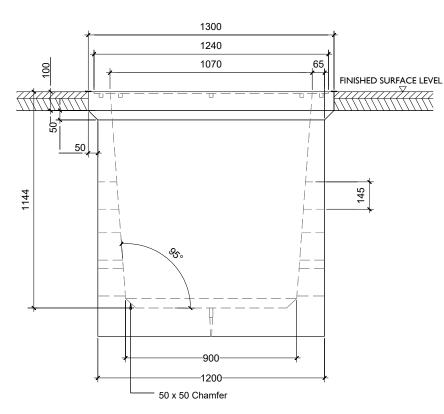
#### SHEET TITLE

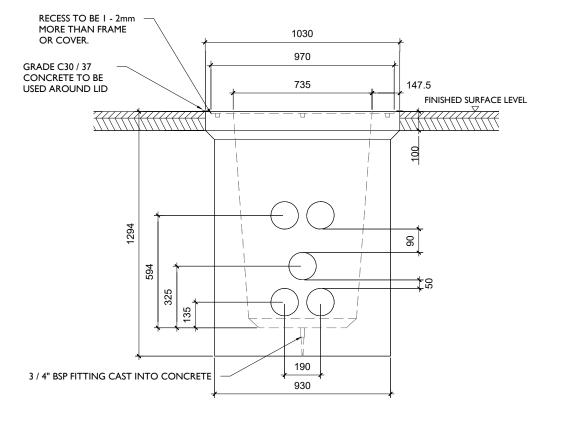
Forestry Access Track with Service Corridor through existing Fire Break DRAWING STATUS For Planning



#### NOTES;

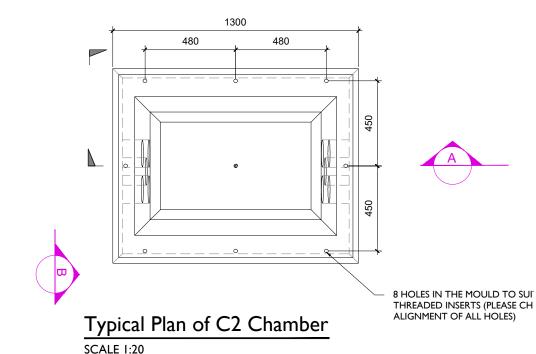
- ALL DIMENSION IN MILLISMETERS UNLESS OTHERWISE STATED Ι.
- REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE 2. RELEVANT LOCAL AUTHORITY/ASSET OWNER
- ENTRANCE AND EXIT DUCTS TO BE IN LINE 3
- ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE 4 WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
- REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, 5. SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
- CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124. 6.
- ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM 7. TO THE APPROVAL OF EIRGRID
- 8. STEP IRONS TO BE GOT DIPPED GALVANISED TO B.S 729 AND POSITIONED AS SHOWN ON ANY CHAMBER DEEPER THAN 700mm ON THE END REMOTE FROM ANY SIDE ENTRY DUCT.
- CONCRETE PRECAST CHAMBER AND COVER TO BE TESTED 9. THROUGH 5 POINTS, 40 TONNES VERTICAL STATIC LOADING TEST BY AN INDEPENDENT TEST COMPANY. IF REQUIRED, FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
- 10. FINAL POSITION OF C2 CHAMBERS SHALL BE AGREED WITH EIRGRID
- 11. IN A FOREST ENVIROMENT, BACKFILL WITH LEAN MIX OUTSIDE THE COVER FRAME WHERE THE ASPHALT IS SHOWN

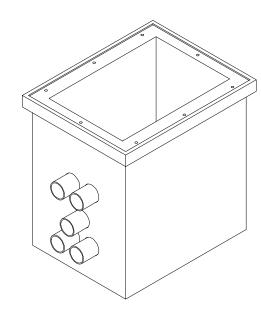




### C2 Chamber Detail - Section A

SCALE 1:20





# Isometric : C2 Chamber Arrangement

SCALE I:20



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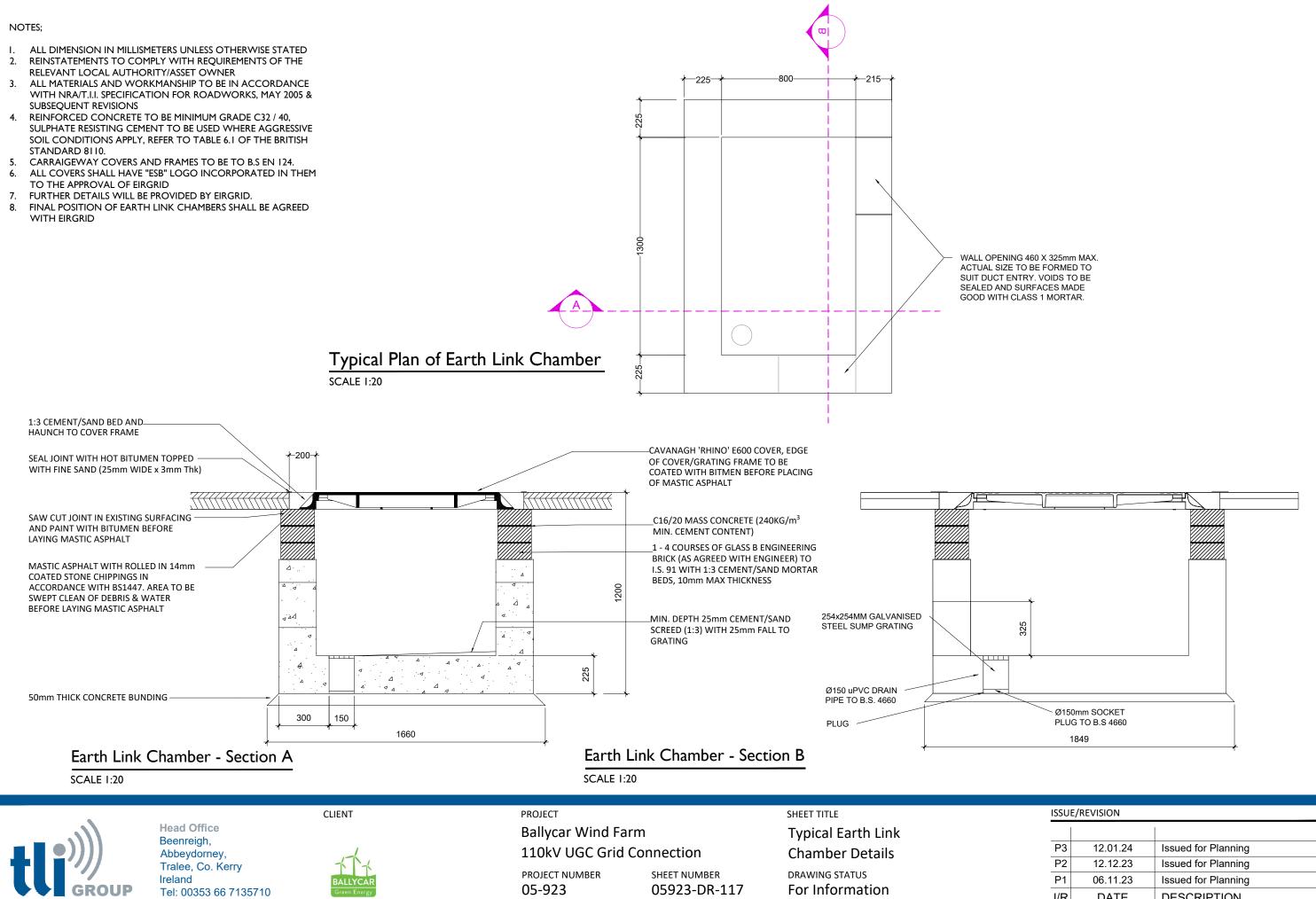
PROJECT	
Ballycar Wind Farm	
110kV UGC Grid Connection	
PROJECT NUMBER	SHEET NUMBER
05-923	05923-DR-116

SHEET TITLE **Typical Communications Chamber Details** DRAWING STATUS For Planning

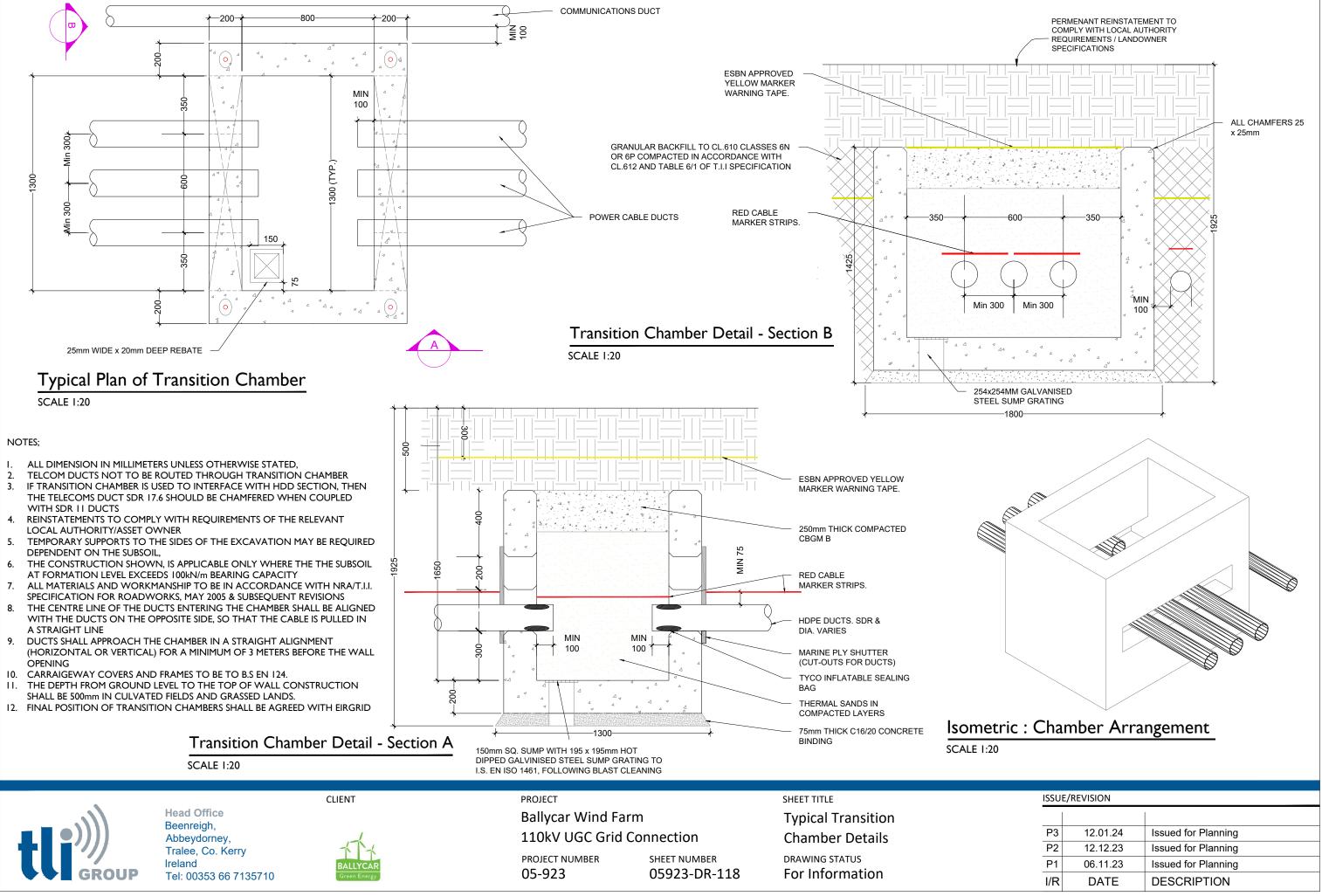
SCALE I:20

## C2 Chamber Detail - Section B

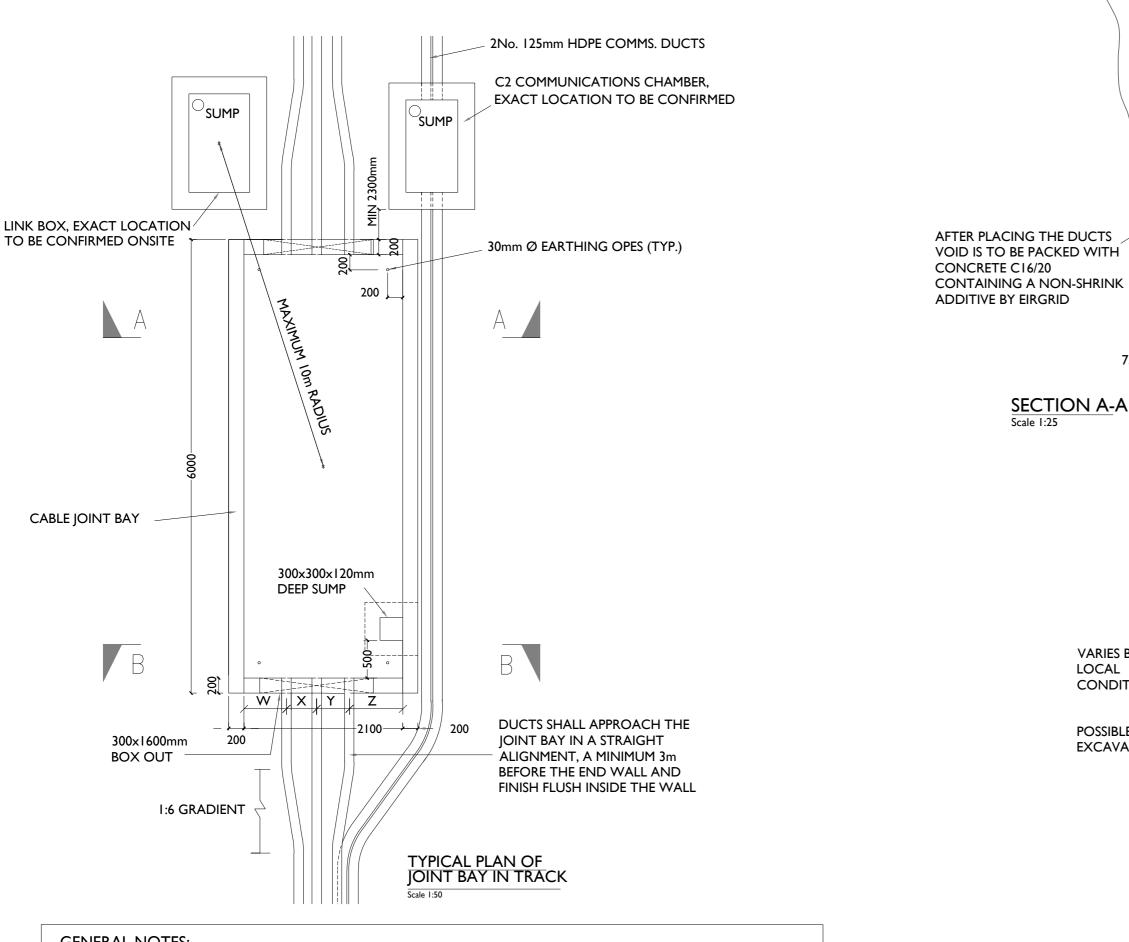
ISSU	ISSUE/REVISION		
P2	12.12.23	Issued for Planning	
P1	06.11.23	Issued for Planning	
I/R	DATE	DESCRIPTION	



ISSU	e/revision	
P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION



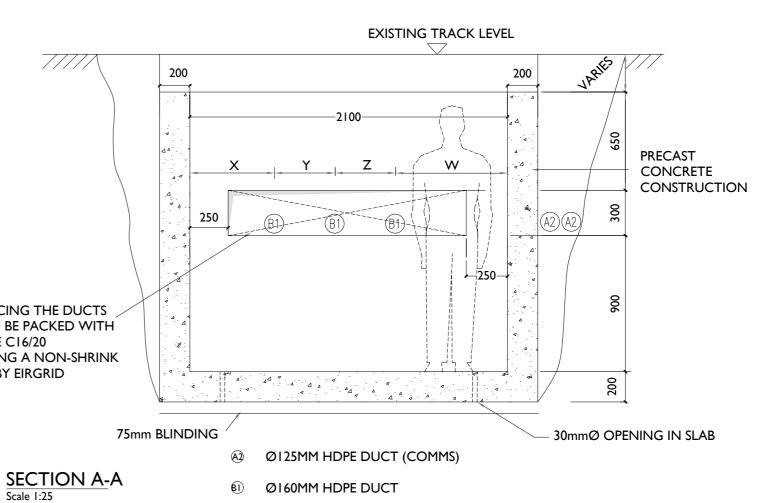
ISSUE/REVISION		
P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION



#### GENERAL NOTES:

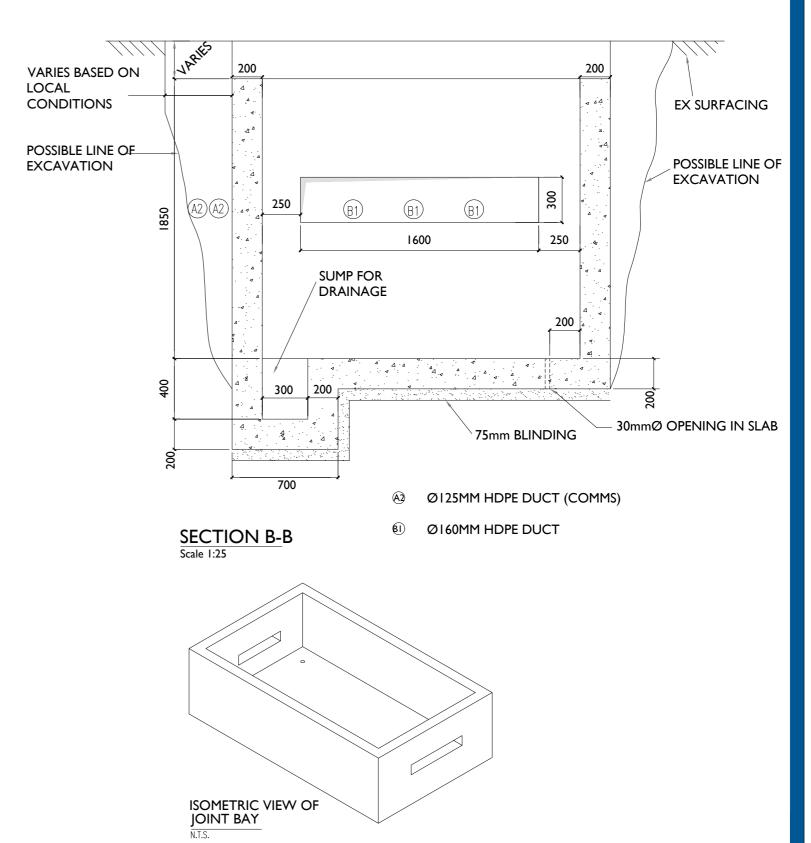
- THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE AND IS SUBJECT TO AMENDMENT.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION 2.
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS. 3.
- 4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
- STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m2. SUITABILITY OF STANDARD JOINT BAY 5. FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS SHALL BE REQUIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE,
- AND WHERE PEAT IS ENCOUNTERED, THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE 6. PERMITTED.
- ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION 7.
- THE DEPTH FROM GROUND/TRACK LEVELTO THE TOP OF THE CONCRETE WALL SHALL BE 8.
- A. 500MM IN CULTIVATED FIELDS & GRASS LAND
- LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF TRACK 9.
- LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID 10. PRIOR TO INSTALLATION

DB



## **TABLE 1 - DUCT SEPERATION**

	х	Y	Z	W
110kV	560	400	400	760
220kV	375	675	675	375





Ballycar Wind Farm 110kV UGC Grid Connection

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NOTES: -

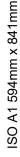
LEGEND: -

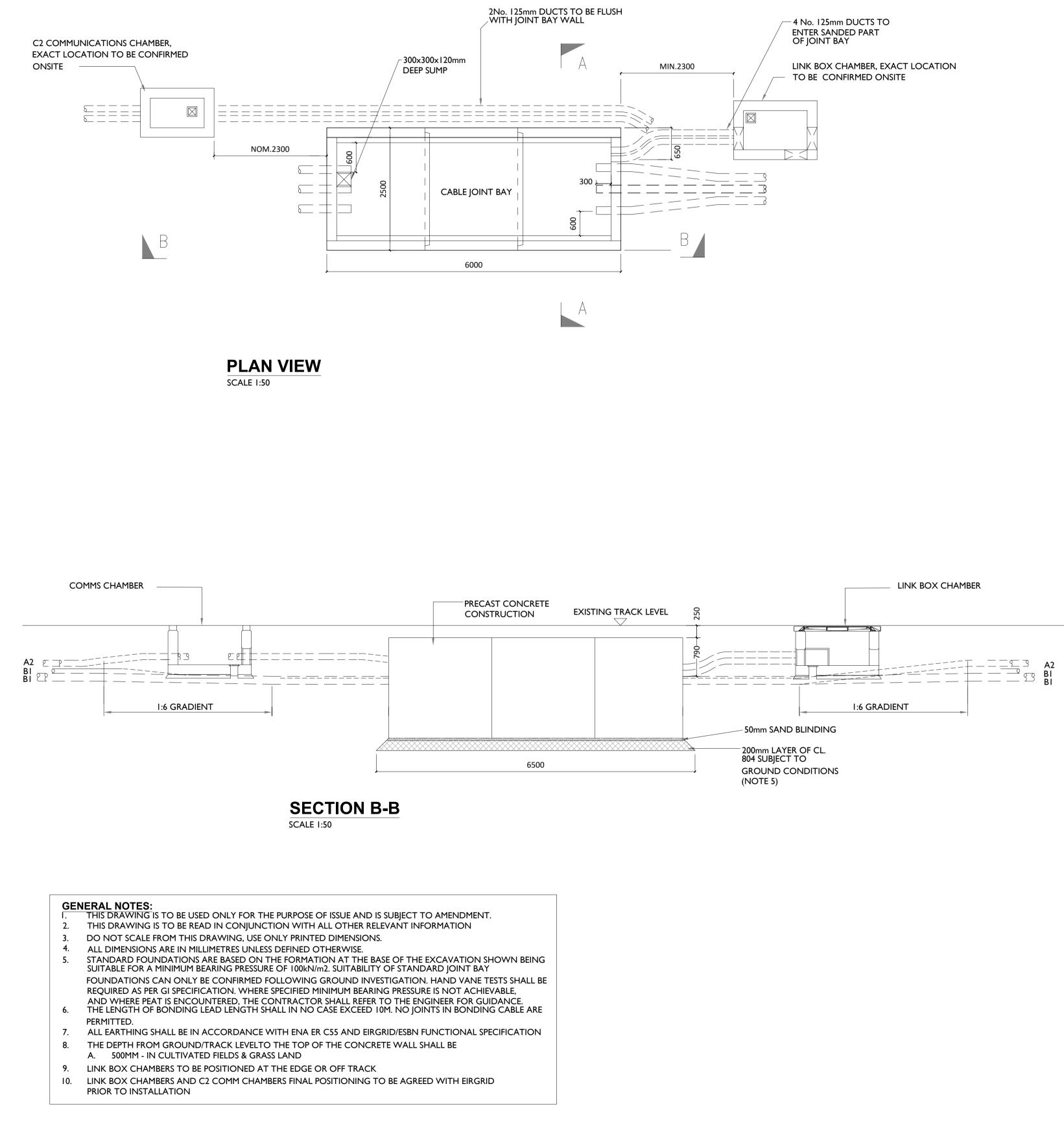
**ISSUE/REVISION** P3 12.01.24 Issued for Planning P2 12.12.23 Issued for Planning P1 06.11.23 Issued for Planning I/R DATE DESCRIPTION PROJECT NUMBER

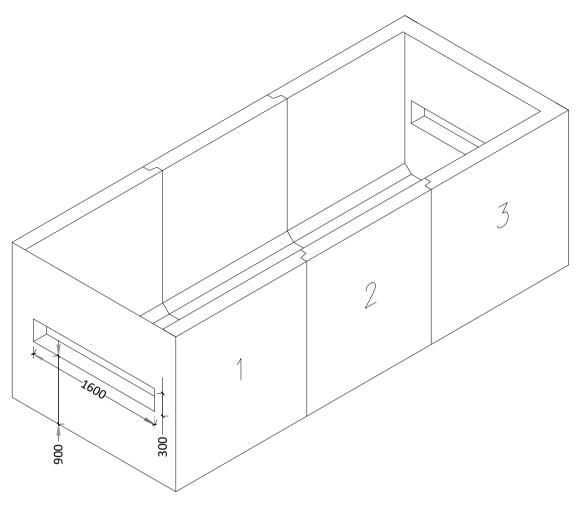
05-923 SHEET TITLE

Joint Bay Section Detail

SHEET NUMBER

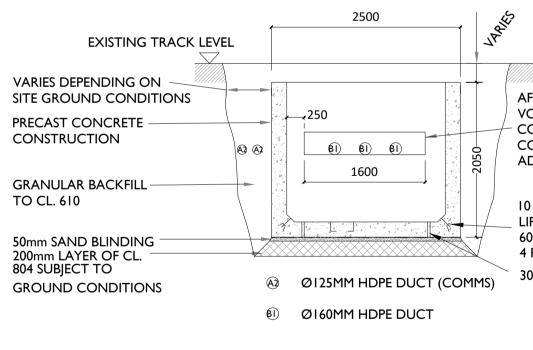






# **ISOMETRIC VIEW PRECAST CHAMBER** SCALE 1:50





**SECTION A-A** SCALE 1:50



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PROJECT

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# Ballycar Wind Farm 110kV UGC Grid Connection

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NOTES: -

See General Notes

LEGEND: -

### **ISSUE/REVISION**

P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

## PROJECT NUMBER

05-923

SHEET TITLE

110kV Joint Bay General Arrangement and Details

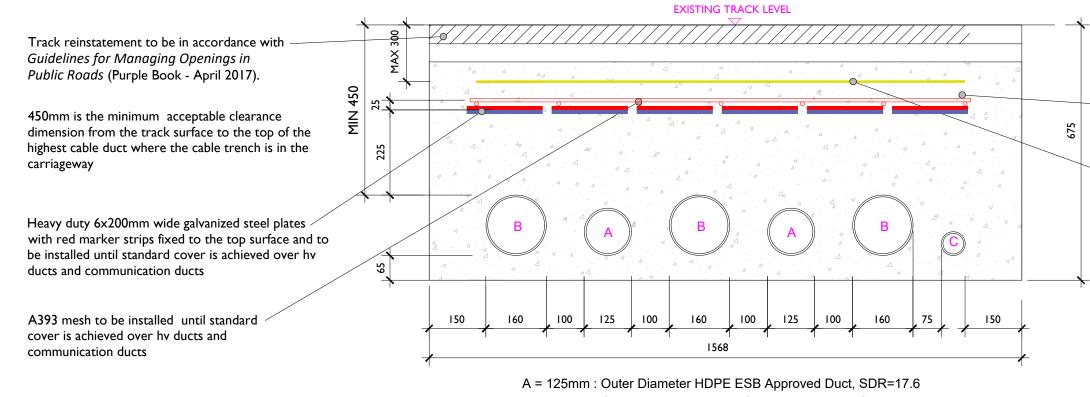
# SHEET NUMBER

05923-DR-120

AFTER PLACING THE DUCTS VOID IS TO BE PACKED WITH CONCRETE C16/20 CONTAINING A NON-SHRINK ADDITIVE BY EIRGRID

10 T HALFEN DEHA SPHERICAL LIFTING ANCHORS. REF: 6000-10.0-0170 4 PER UNIT

30mmØ OPENING IN SLAB



B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21

C = 63mm : ECC Earth Continuity Conductor

# **Typical Section Through Ducting in Flat Formation**

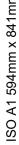
**SCALE 1:10** 

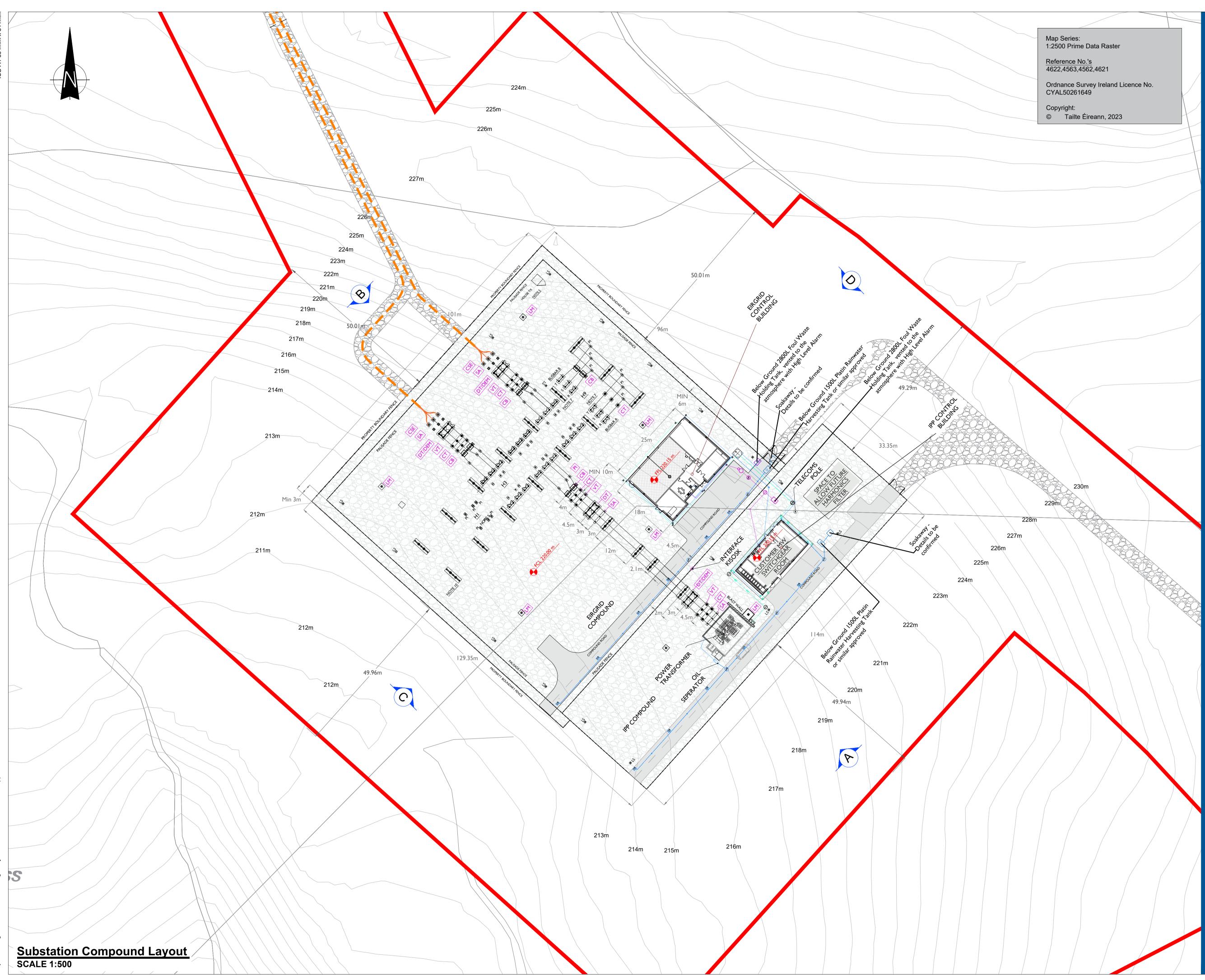


C25/30 concrete to be in accordance with specification for road works 1000. 20mm max : of aggregate, with minimum duct spacing of 75r Min. cover to steel - 50mm.

4 X 400mm ESBN yellow warning tape across full width of trench

ISSUE	ISSUE/REVISION		
P3	12.01.24	Issued for Planning	
P2	12.12.23	Issued for Planning	
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I/R	DATE	DESCRIPTION	







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# PROJECT

Ballycar Wind Farm 110kV UGC Grid Connection

# CLIENT



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# NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
  Drawings are not to be scaled use figured dimensions only.
  All levels shown are in m O.D unless noted otherwise.
- For Elevation Ref. to Drawing 05923-DR-131.

# LEGEND: -

UG Cable Route shown thus (1.5 km) Planning Application Boundary Contours

Access track

14.0 

# **ISSUE/REVISION**

Ρ7	12.01.24	Issued for Planning
P6	12.12.23	Issued for Planning
P5	05.12.23	Issued for Planning
Ρ4	06.11.23	Issued for Planning
P3	24.05.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	06.12.22	Issued for Information
I/R	DATE	DESCRIPTION

# PROJECT NUMBER

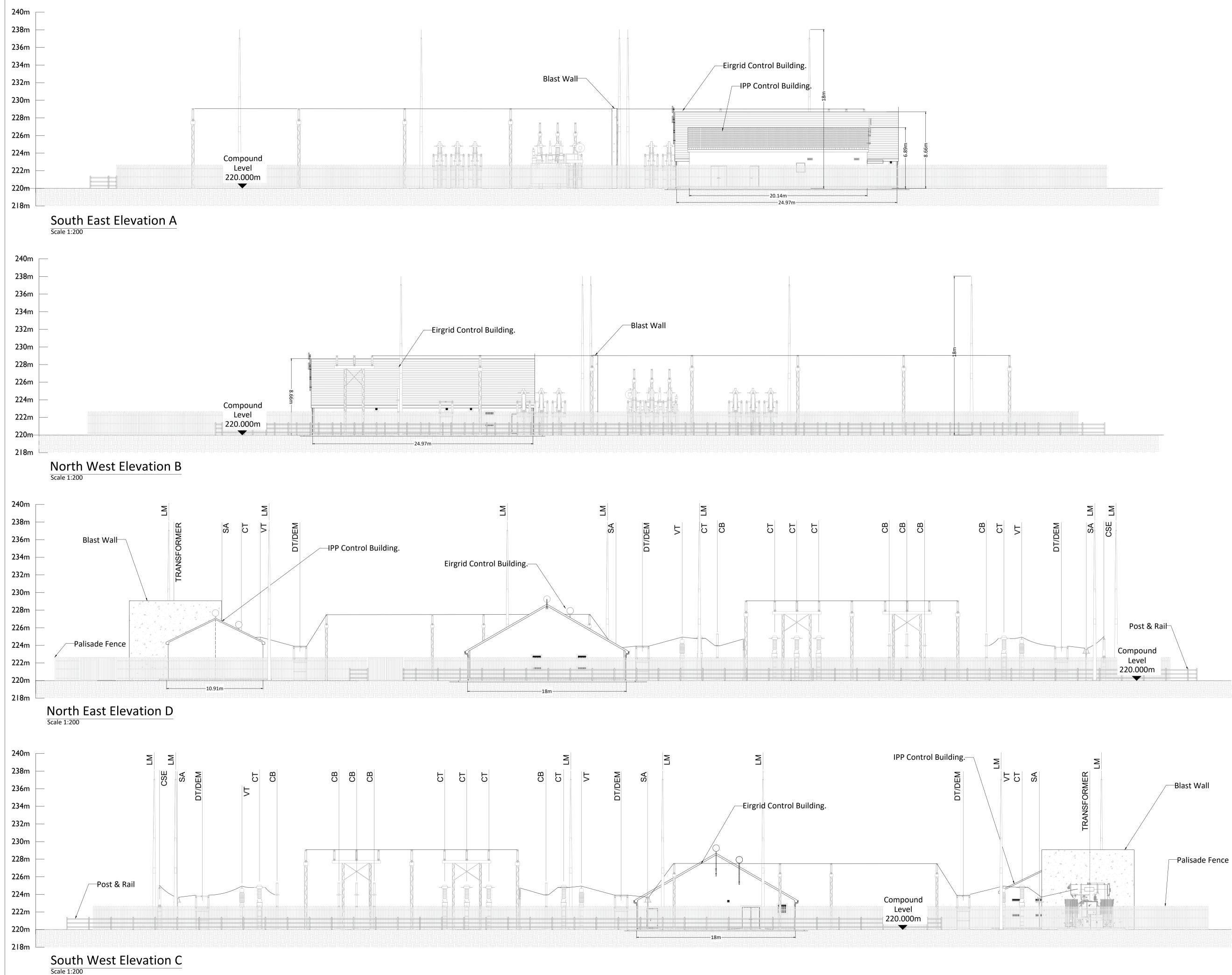
05-923

SHEET TITLE

Substation Compound Layout

# SHEET NUMBER

<sup>====</sup> 



8 A1 SO

DB 2



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# PROJECT

Ballycar Wind Farm 110kV UGC Grid Connection

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CONSULTANTS

### NOTES: -

- I. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
- 2. Dimensions shown are as per current Eirgrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
- Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
- 4. The Elevation of the Compound is indicative and will be finalised to project design to ensure Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND: -

	Description
CSE	Cable Sealing End.
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
VT	Voltage Transformer.
СТ	Current Transformer.
СВ	Circuit Breaker.
PI	Post Insulator.
LM	Lightning Mast.

### **ISSUE/REVISION**

12.01.24	Issued for Planning
12.12.23	Issued for Planning
06.11.23	Issued for Planning
24.05.23	Issued for Planning
12.01.23	Issued for Planning
06.12.22	Issued for Information
DATE	DESCRIPTION
	12.12.23 06.11.23 24.05.23 12.01.23 06.12.22

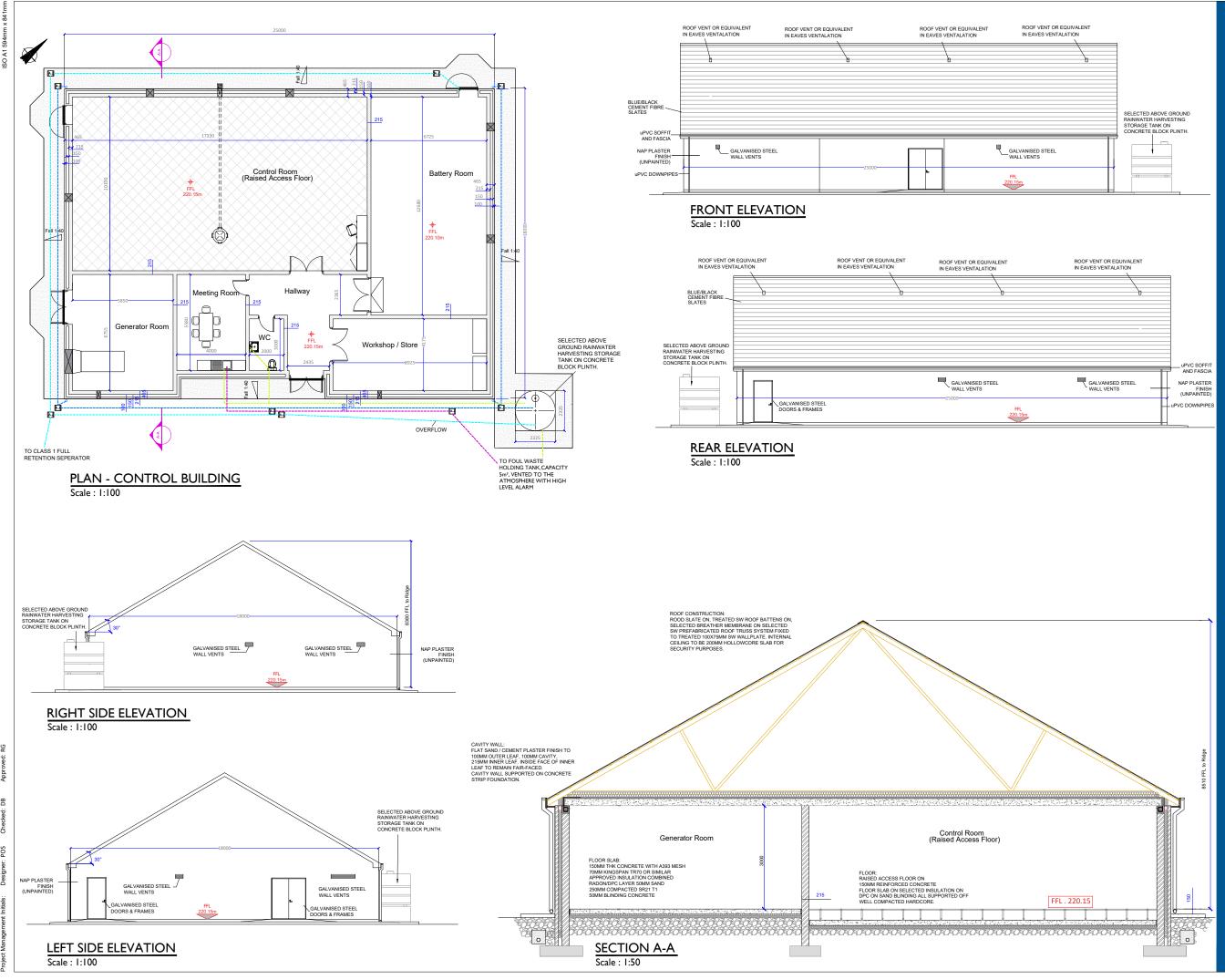
## PROJECT NUMBER

05-923

SHEET TITLE

Substation Elevations

## SHEET NUMBER





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PROJECT

# **Ballycar Wind Farm** 110kV UGC Grid Connection

#### CLIENT



CONSULTANTS

#### NOTES

- 1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
- Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
- Final Specifications of Buildings and Electrical Equip to be as per Eirgrid and ESB Specifications.
- The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced. LEGEND: -

Levels shown thus

Concrete Footpath shown thus

\_\_\_\_\_\_

#### ISSUE/REVISION

12.12.23	Issued for Planning
06.11.23	Issued for Planning
24.05.23	Issued for Planning
12.01.23	Issued for Planning
06.12.22	Issued for Information
DATE	DESCRIPTION
	06.11.23 24.05.23 12.01.23 06.12.22

#### PROJECT NUMBER

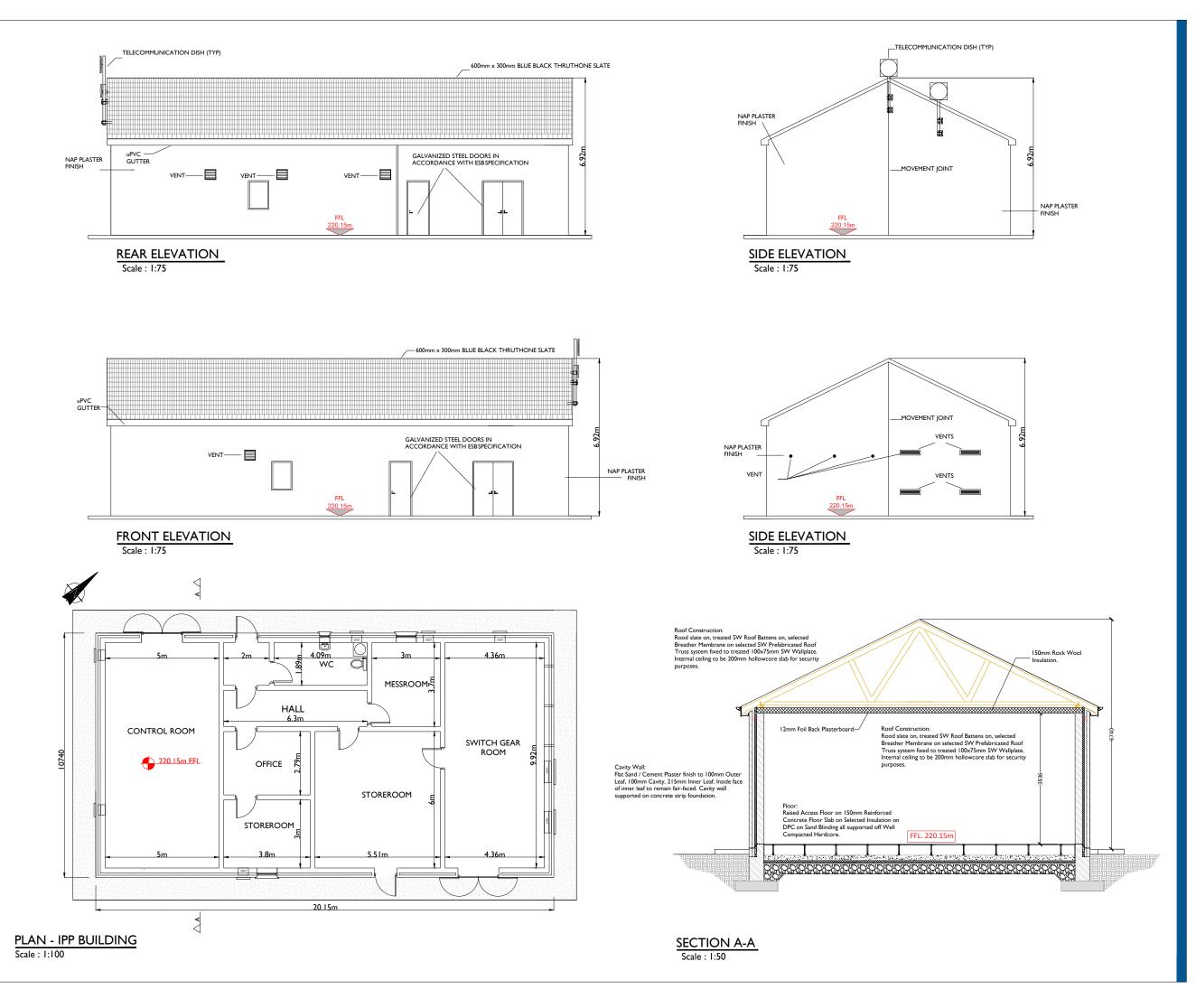
05-923

SHEET TITLE

Control Building - Plan & Elevations & Section

#### SHEET NUMBER







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# PROJECT

### Ballycar Wind Farm 110kV UGC Grid Connection

#### CLIENT



CONSULTANTS

#### NOTES: -

- 1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
- Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
- Final Specifications of Buildings and Electrical Equipment is to be as per Eirgrid and ESB Specifications.
- The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced. LEGEND: -

Levels shown thus

Concrete Footpath shown thus

\_\_\_\_\_\_

#### ISSUE/REVISION

P5	12.12.23	Issued for Planning
P4	06.11.23	Issued for Planning
Ρ3	24.05.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	06.12.22	Issued for Information
I/R	DATE	DESCRIPTION

#### PROJECT NUMBER

05-923

SHEET TITLE

IPP Building - Plan & Elevations & Section

#### SHEET NUMBER



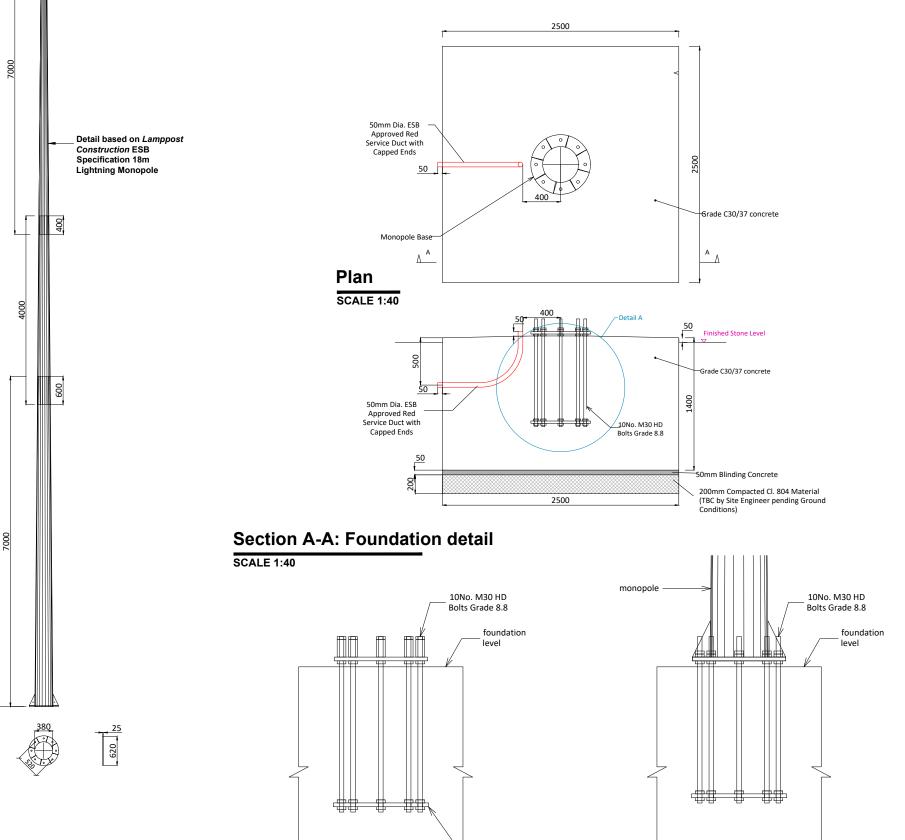
- I. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL ENGINEERS AND ARCHITECTS DRAWINGS
- 2. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2002 WITH THE MIX DESIGNS SHOWN IN TABLE I
- 3. CONCRETE FINISHES TO BE IN ACCORDANCE WITH TABLE 6.1 OF THE ESBI SPECIFICATION CS17-SO1-005.
- 4. ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH BS4449 AND SCHEDULED IN ACCORDANCE WITH BS.8666. 300MM LAPS FOR A142 MESH 600MM MIN LAPS FOR A393 MESH.
- 5. REFER ALWAYS TO RELEVANT EARTH GRID DRAWING PRIOR TO EXCAVATIONS & CONCRETE POURS
- 6. GEOMETRICAL TOLERANCES TO BE IN ACCORDANCE WITH TABLE 6.2 OF ESBI SPECIFICATION CS17-S01-005

#### FOUNDATION NOTES:

7. GROUND TO HAVE A MINIMUM BEARING CAPACITY OF 100 kN/M<sup>2</sup>.

- 8. FORMATION LEVEL AND FOUNDATIONS TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONCRETE BEING POURED.
- 9. ALL FOUNDATIONS ARE TO BE BLINDED IMMEDIATELY AFTER EXCAVATION WITH 50MM OF C16/20 CONCRETE BLINDING.

10. REFER ALWAYS TO THE RELEVANT EARTH WORK DRAWINGS PRIOR TO EXCAVATIONS & CONCRETE POURS.



100

### Monopole Details

#### SCALE 1:75

18000 MAX

17000

template

Bottom

#### Detail A Scale : 1:25

CLIENT

#### Monopole Base Plate to HDB Connection Scale : 1:25

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#### ISSUE/REVISION

P4	12.12.23	Issued for Planning
P3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	14.10.22	Issued for Information
I/R	DATE	DESCRIPTION



SHEET TITLE Lightning Monopole Foundation Details 18m Masts

DRAWING STATUS For Information PROJECT NUMBER 05-923

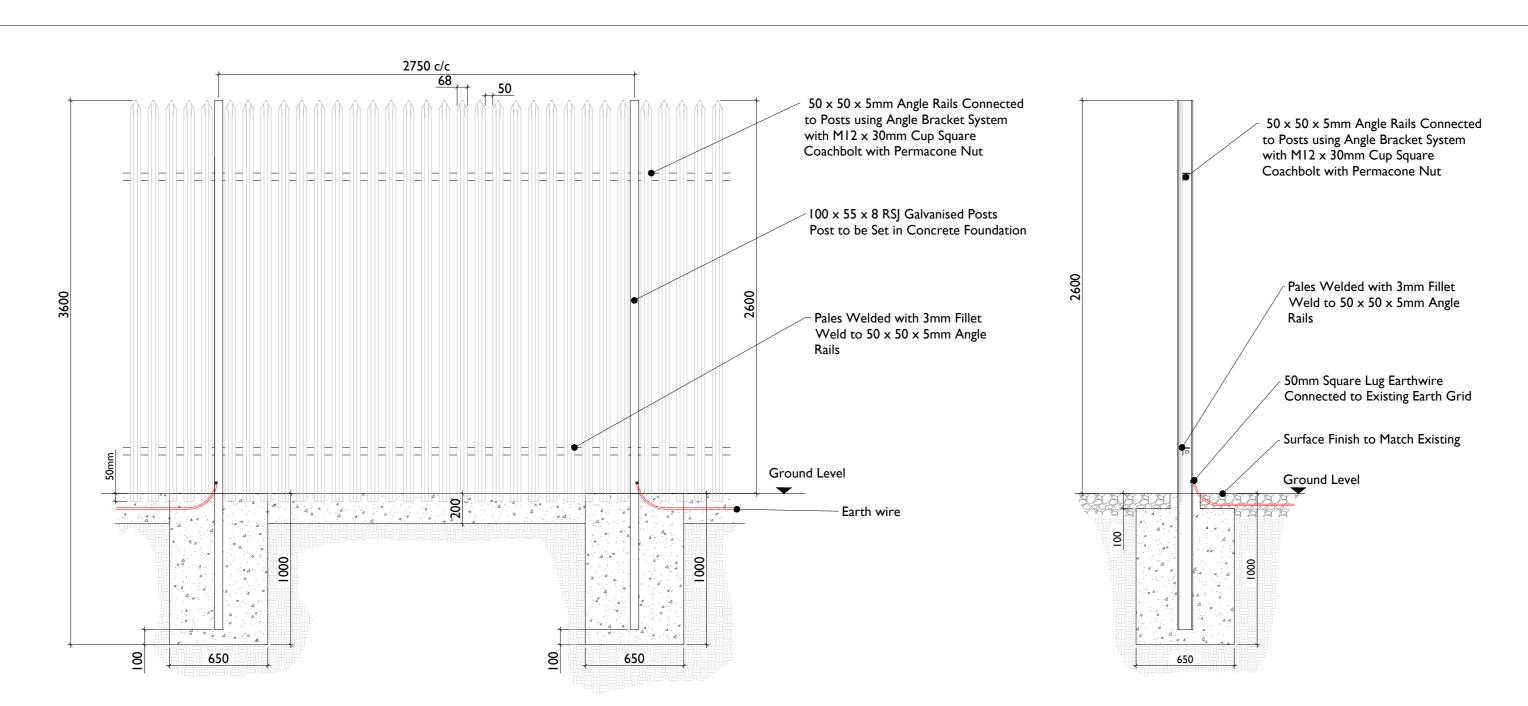
SHEET NUMBER

05923-DR-134

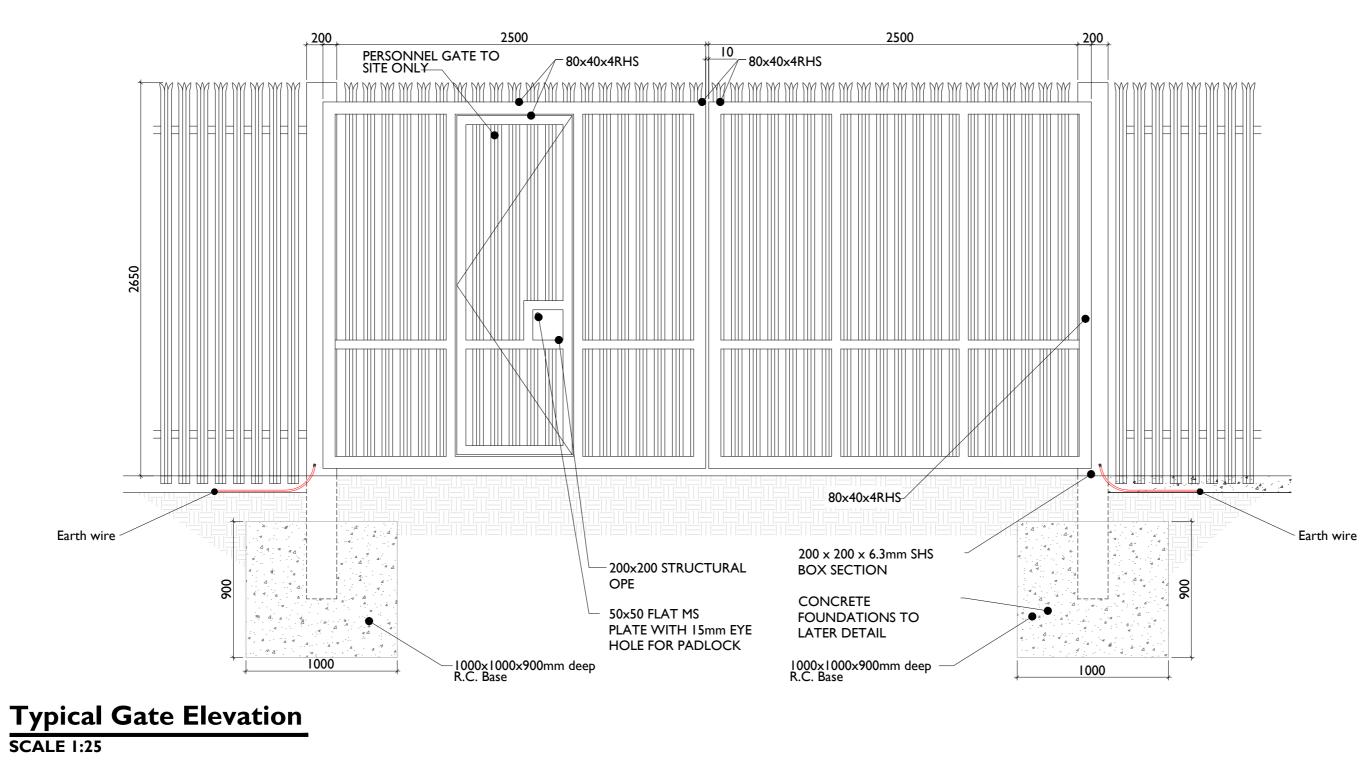
LEGEND/NOTES: -

- This drawing is to be read in conjuction with relevant drawings, specifications and reports
- Dimensions are in millimetres, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

ISO A2 420mm x 594



# Palisade Fencing Details - Elevation SCALE 1:25



Project Management Initials: Designer: JC Checked: POS Approved: DB

# Palisade Fencing Details - Section SCALE 1:25



Ballycar Wind Farm 110kV UGC Grid Connection

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CONSULTANTS

NOTES: -

LEGEND: -

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- Dimensions are in millimetres, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

### ISSUE/REVISION

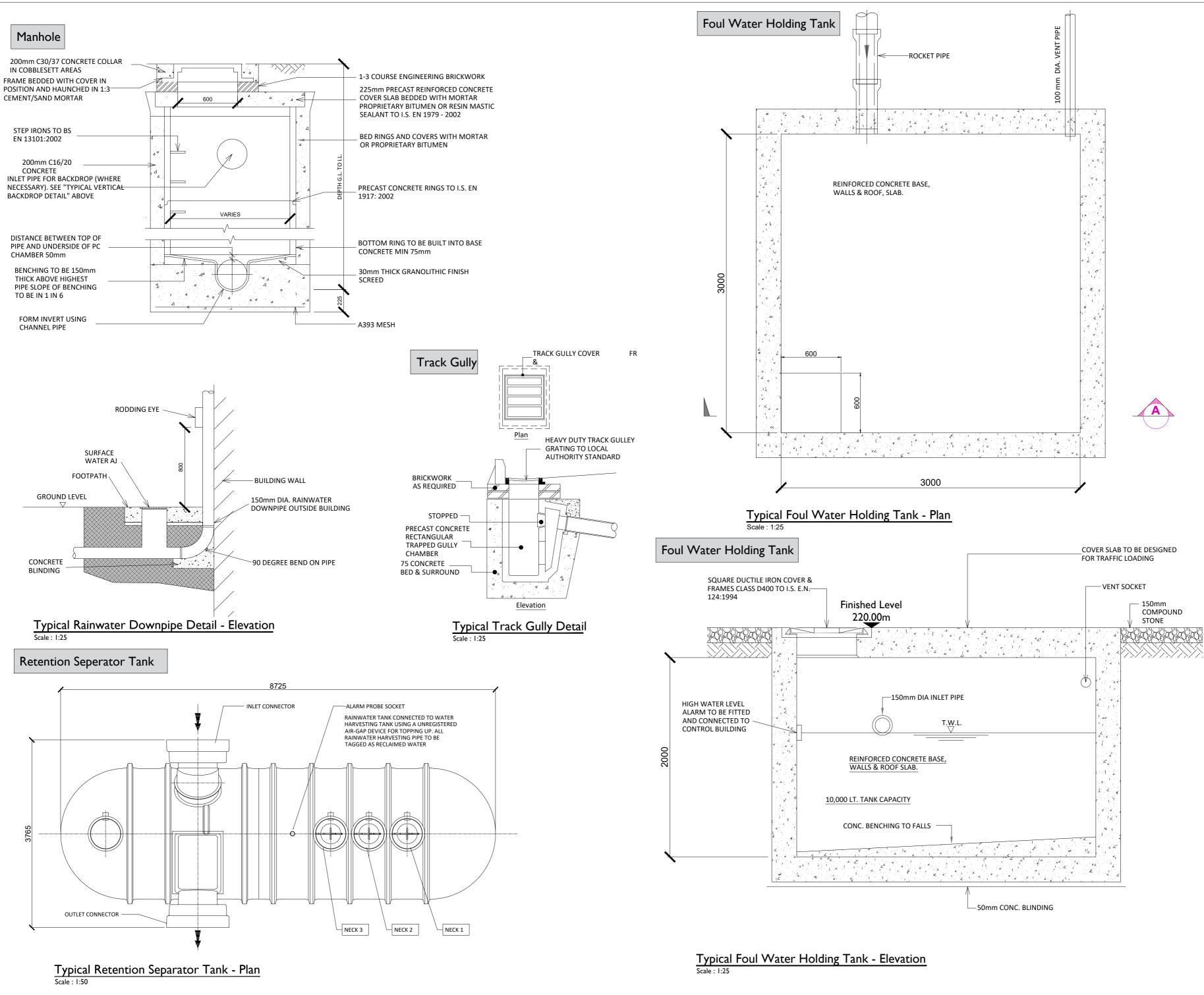
P4	12.12.23	Issued for Planning	
P3	06.11.23	Issued for Planning	
P2	12.01.23	Issued for Planning	
P1	14.10.22	Issued for Information	
I/R	DATE	DESCRIPTION	
PR	PROIECT NUMBER		

05-923

SHEET TITLE

Gate & Fence Details







Ballycar Wind Farm 110kV UGC Grid Connection

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CONSULTANTS

### NOTES: -

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

LEGEND: -

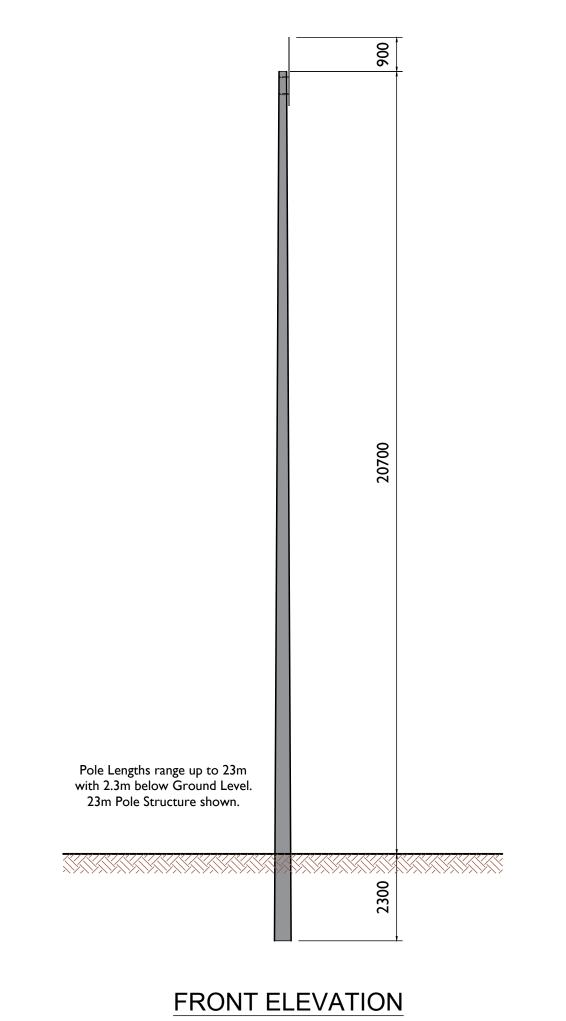
P5	12.01.24	Issued for Planning
P4	12.12.23	Issued for Planning
P3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
ΡI	14.10.22	Issued for Planning
I/R	DATE	DESCRIPTION

#### PROJECT NUMBER

05-923

SHEET TITLE

Substation Compound drainage, Rentention seperator tank, Foul water holding tank details SHEET NUMBER



Scale 1:100



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I/R	DATE	DESCRIPTION



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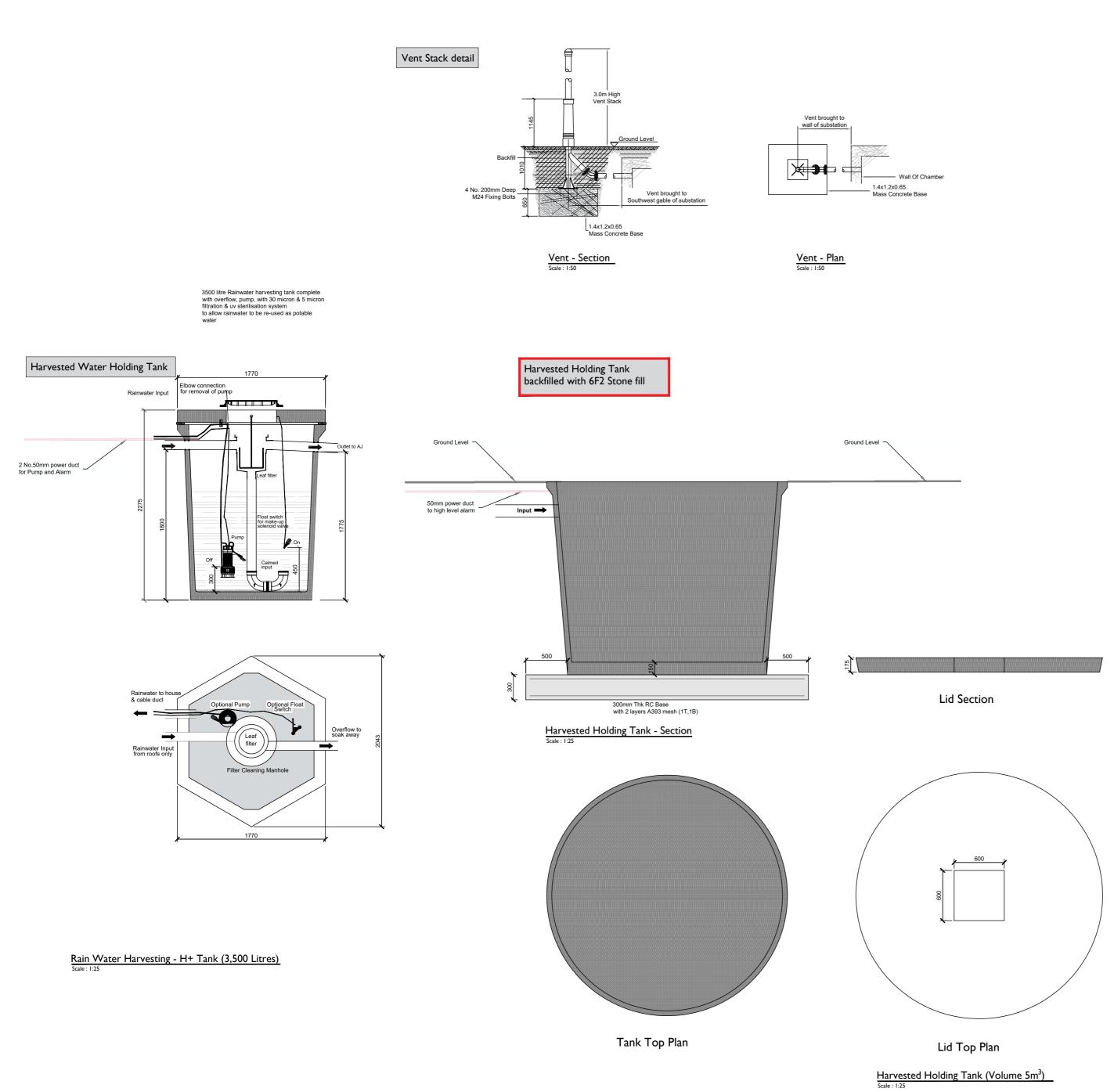
SHEET TITLE Telecoms Pole Elevation View

DRAWING STATUS For Planning PROJECT NUMBER 05-923 SHEET NUMBER

05923-DR-137

LEGEND/NOTES: -

All dimensions in mm unless noted otherwise



G



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PROJECT

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Ballycar Wind Farm 110kV Grid Connection

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CONSULTANTS

#### NOTES: -

- This drawing is to be read in conjuction with relevant drawings, specifications and reports
  Dimensions are in millimetres, unless noted
- otherwise • Drawings are not to be scaled use figured dimensions only

LEGEND: -

# ISSUE/REVISION

P4	12.12.23	Issued for Planning
P3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	14.10.22	Issued for Information
I/R	DATE	DESCRIPTION

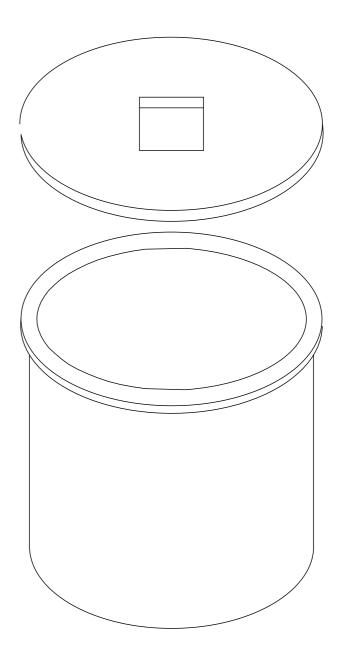
#### PROJECT NUMBER

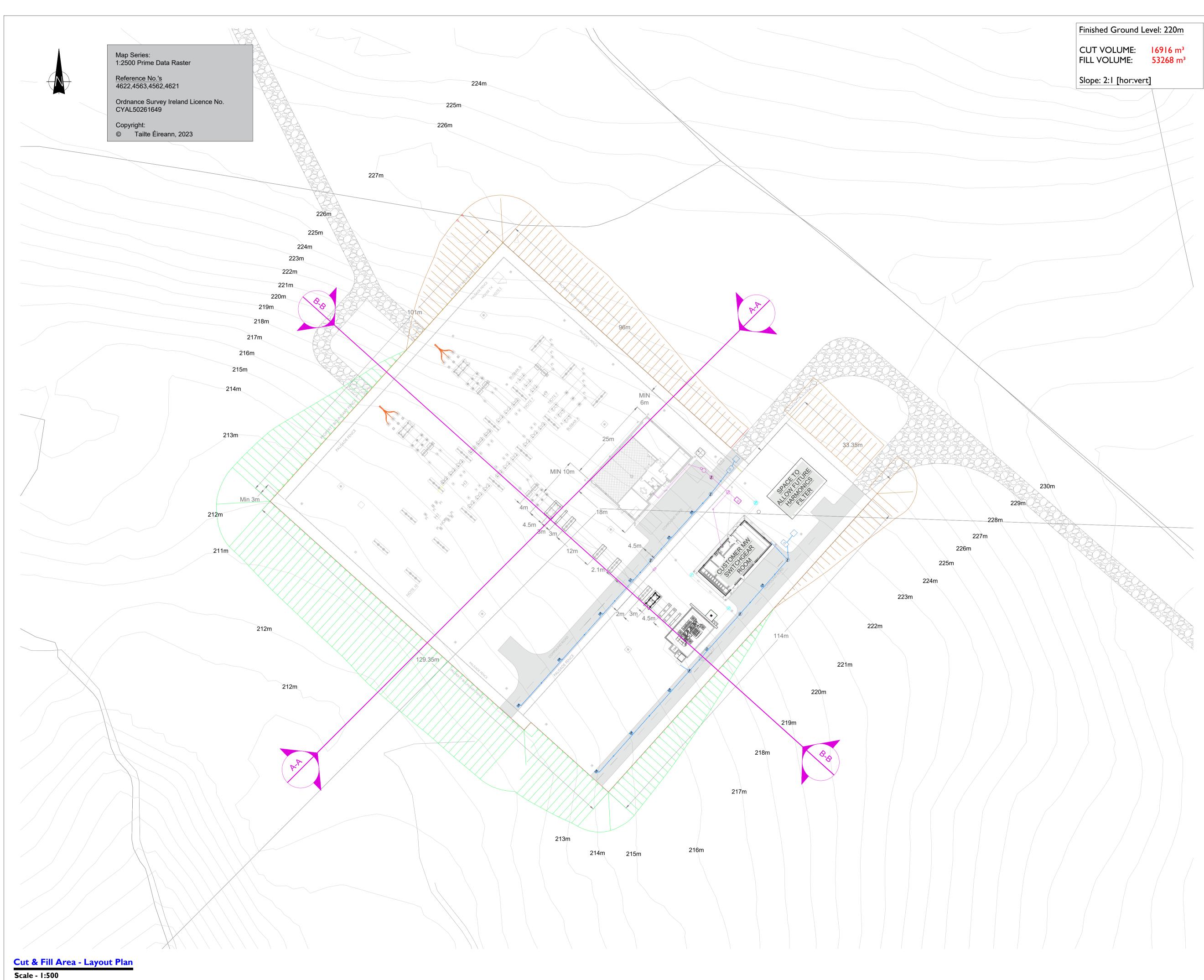
05-923

SHEET TITLE

Rain Water Harvesting Tank & Vent details

#### SHEET NUMBER







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# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

# APPLICANT



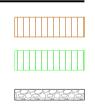
CONSULTANTS

NOTES: -

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# LEGEND: -

Cut Volume Fill Volume Access track



# **ISSUE/REVISION**

P6	12.01.24	Issued for Planning
P5	12.12.23	Issued for Planning
P4	05.12.23	Issued for Planning
Р3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	06.12.22	Issued for Information
I/R	DATE	DESCRIPTION

# PROJECT NUMBER

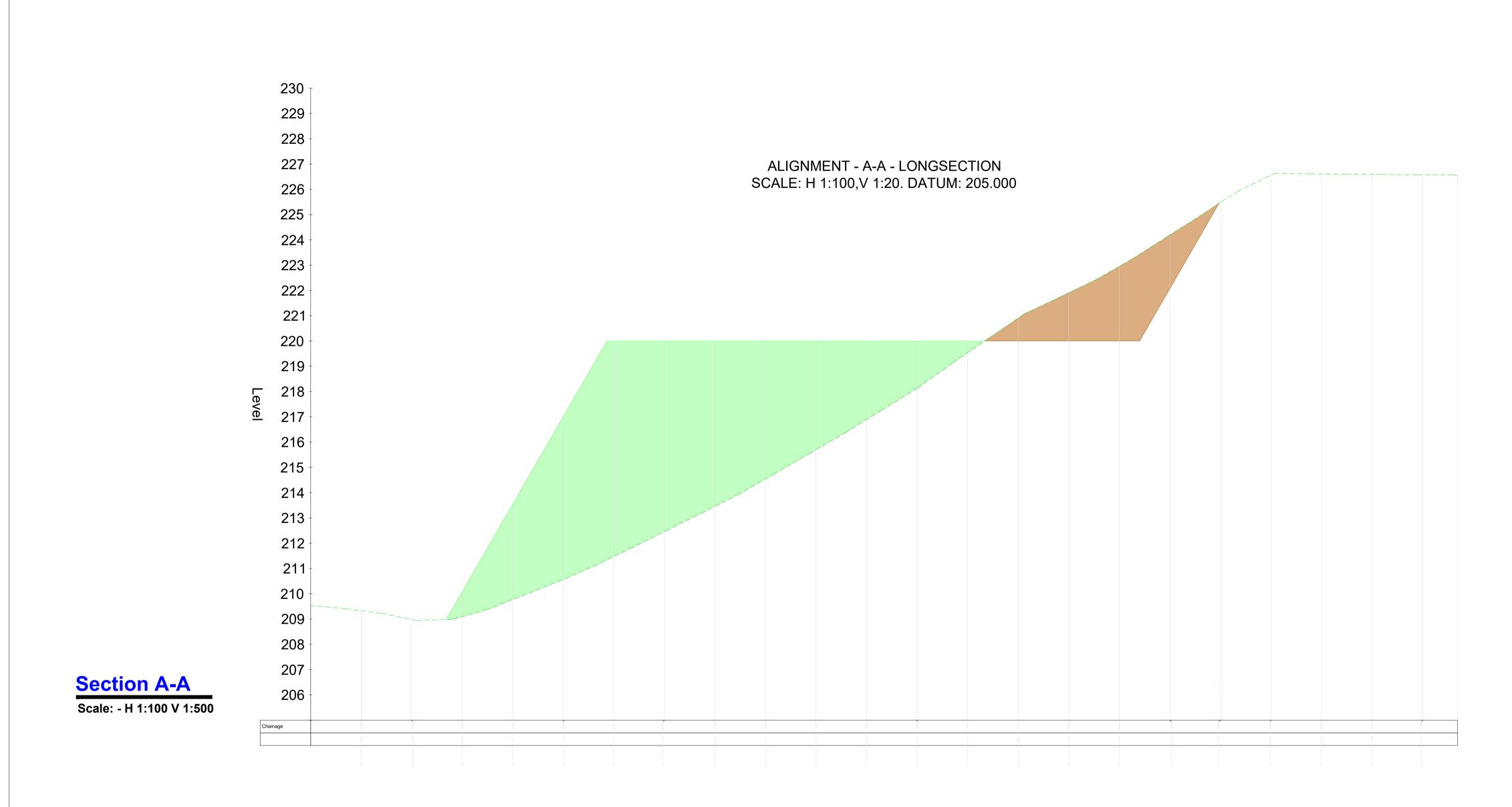
05-923

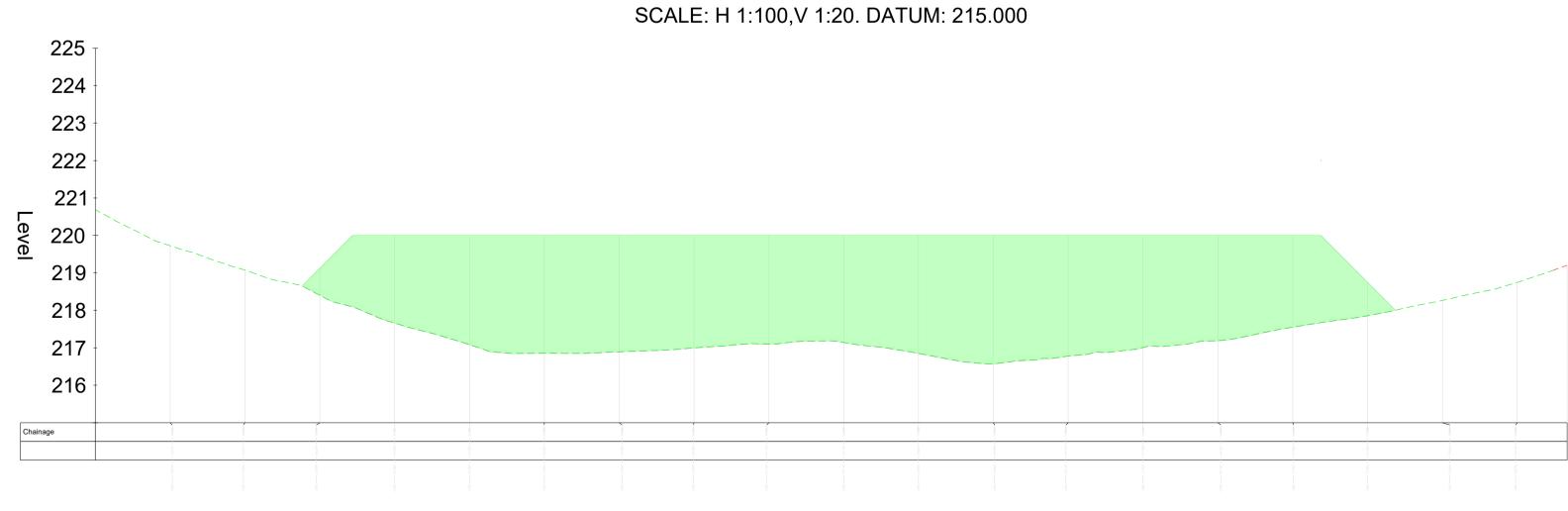
SHEET TITLE

Cut & Fill Area Layout Plan

SHEET NUMBER

A SO







Scale: - H 1:100 V 1:500

ALIGNMENT - B-B - LONGSECTION

Finished Ground Level: 220m

 CUT VOLUME:
 16916 m³

 FILL VOLUME:
 53268 m³

Slope: 2:1 [hor:vert]



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# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

APPLICANT



CONSULTANTS

NOTES: -

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### LEGEND: -

Cut Volume Fill Volume

## **ISSUE/REVISION**

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P5	12.01.24	Issued for Planning
P4	12.12.23	Issued for Planning
P3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
P1	14.10.22	Issued for Information
I/R	DATE	DESCRIPTION

# PROJECT NUMBER

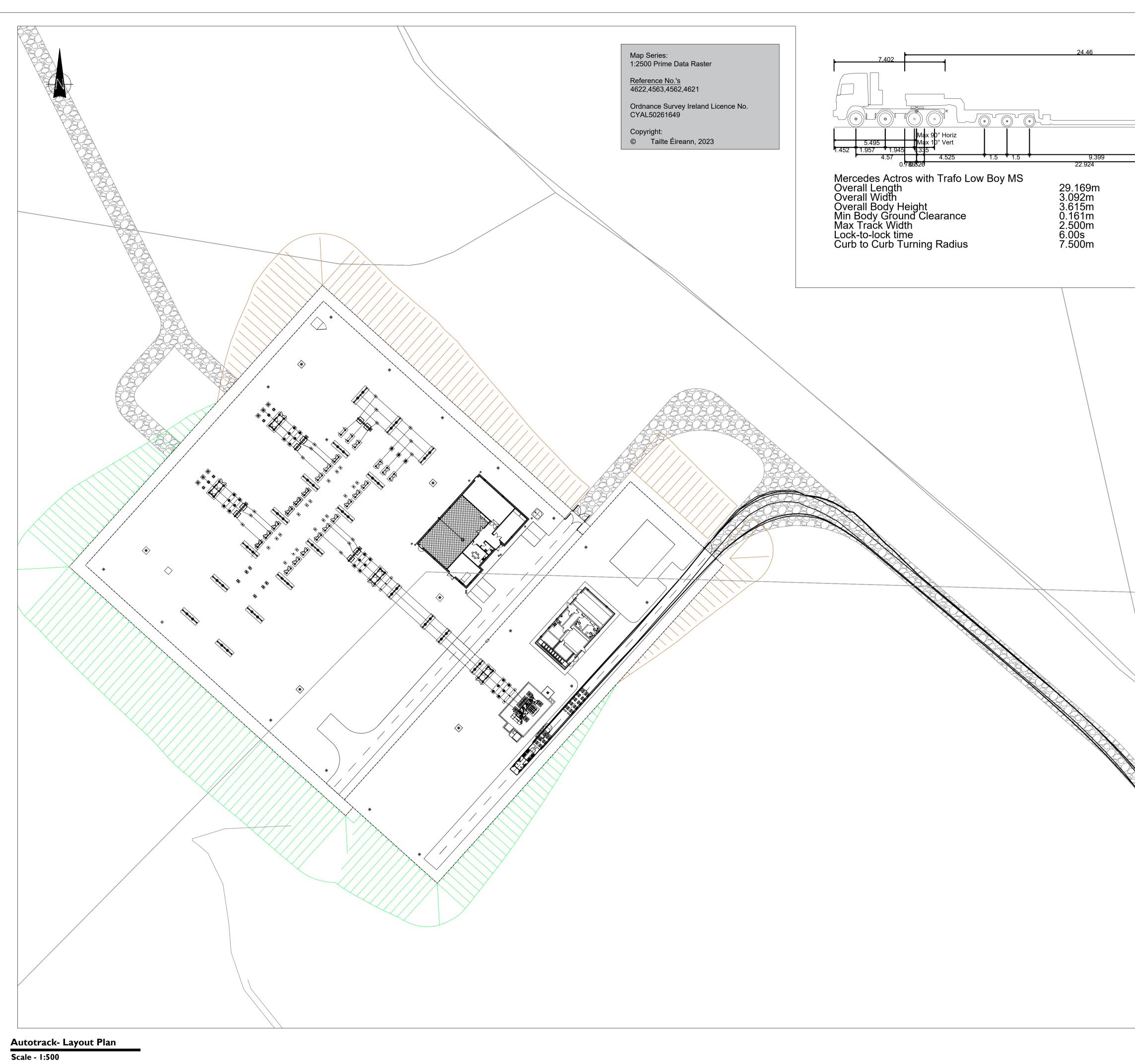
05-923

SHEET TITLE

# Substation Site Sections

# SHEET NUMBER





<u></u>	<u></u>		<u></u>	
•)) (( 	•) ((	•)) (( 	•)) (( 	
1.5	1.5	1.5	1.5	0.75



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# PROJECT

# Ballycar Wind Farm 110kV UGC Grid Connection

# APPLICANT



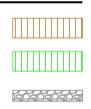
CONSULTANTS

# NOTES: -

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# LEGEND: -

Cut Volume Fill Volume Access track



## **ISSUE/REVISION**

P4	12.01.24	Issued for Information
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P2	05.12.23	Issued for Information
P1	06.11.23	Issued for Information
I/R	DATE	DESCRIPTION

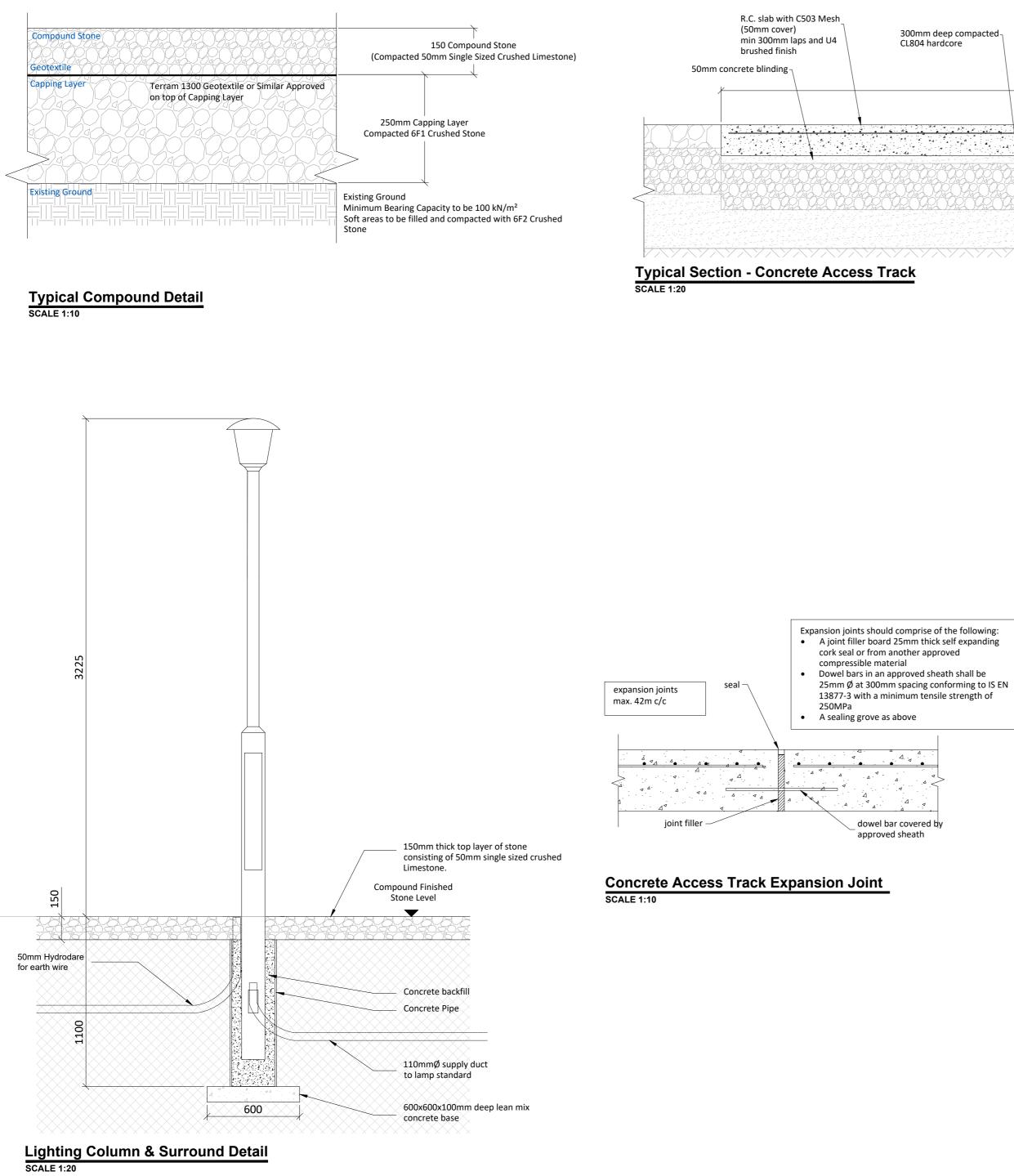
# PROJECT NUMBER

05-923

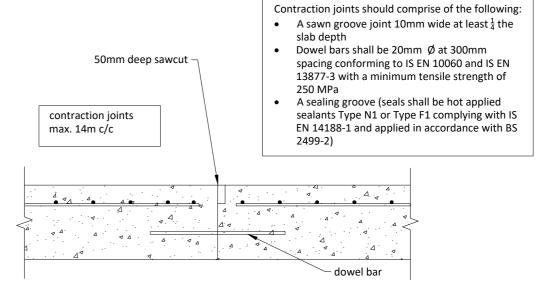
SHEET TITLE

Autotrack Layout Plan

# SHEET NUMBER



300mm deep compacted CL804 hardcore	4500	Head Office Beenreigh, Abbeydorney, Tralee, Co. Kerry, Ireland Tel: 00353 66 7135710
	2.5% fall	PROJECT
<u>Гтаск</u>		Ballycar Wind Farm 110kV UGC Grid Connection
		<b>EXAMPLE 1</b>



**Concrete Access Track Contraction Joint** SCALE 1:10

# NOTES: -

- This drawing is subject to detailed design and ESB design approval and should be used for planning purposes only.
   This drawing is to be read in conjunction with relevant drawings, specifications and reports.
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LEGEND: -

#### **ISSUE/REVISION**

_		
P3	12.01.24	Issued for Planning
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P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

#### PROJECT NUMBER

05-923

SHEET TITLE

Substation Compound Details

#### SHEET NUMBER