



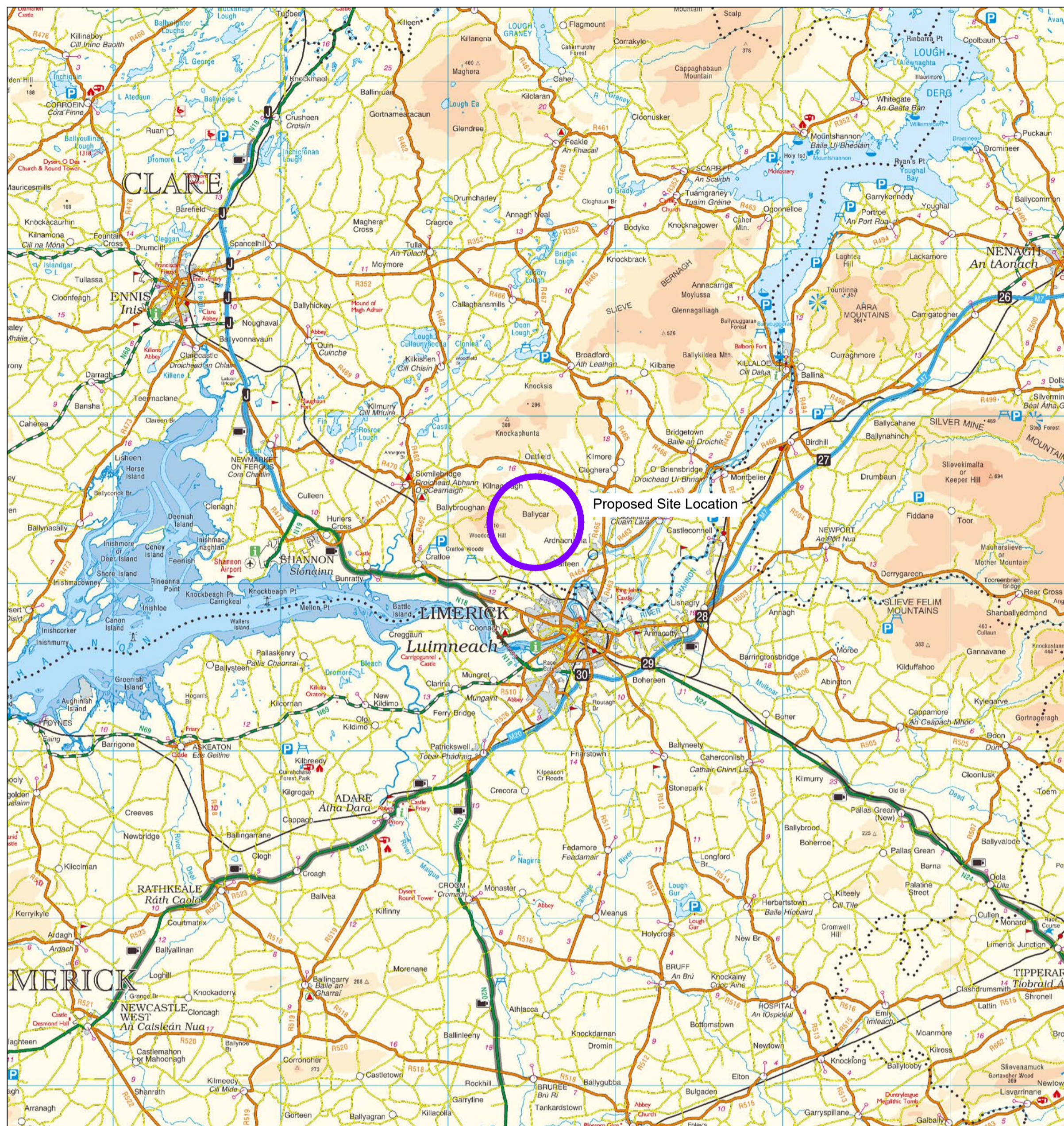
Drawing Number	Drawing Title	Drawing Size
22156-MWP-00-00-DR-C-5001	Site Context Map	A1
22156-MWP-00-00-DR-C-5002	Planning Application and Landholding Boundary	A0
22156-MWP-00-00-DR-C-5003	Planning Application Boundary	A0
22156-MWP-00-00-DR-C-5004	Existing Contours	A0
22156-MWP-00-00-DR-C-5005	Site Layout - 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



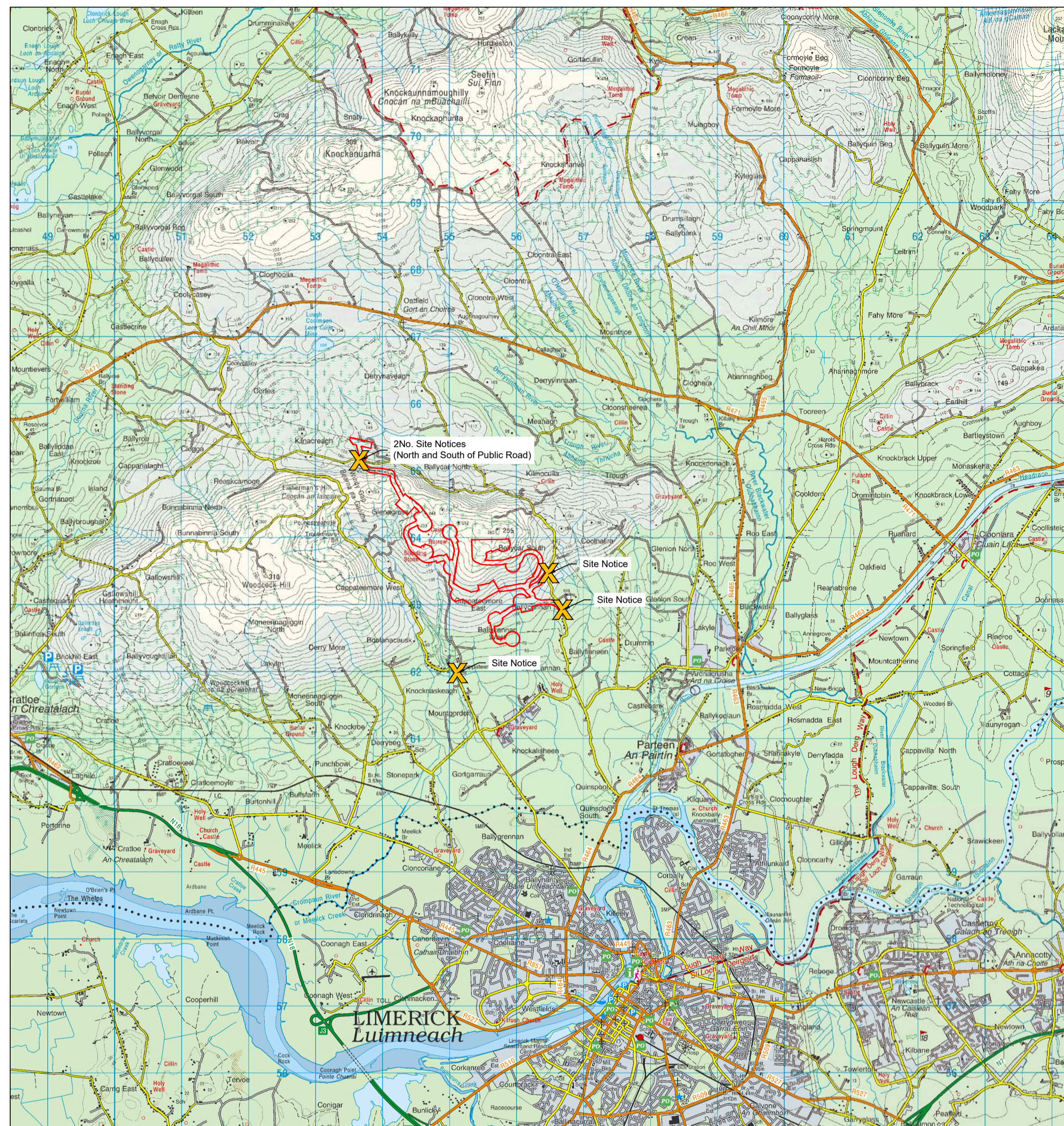
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22156-MWP-00-00-DR-C-5405	Access Track Details	A1
22156-MWP-00-00-DR-C-5406	Drainage Details	A1
22156-MWP-00-00-DR-C-5407	Cable Trench Details	A1
22156-MWP-00-00-DR-C-5408	Temporary Site Construction Compound Layout and Building Details	A1
22156-MWP-00-00-DR-C-5409	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



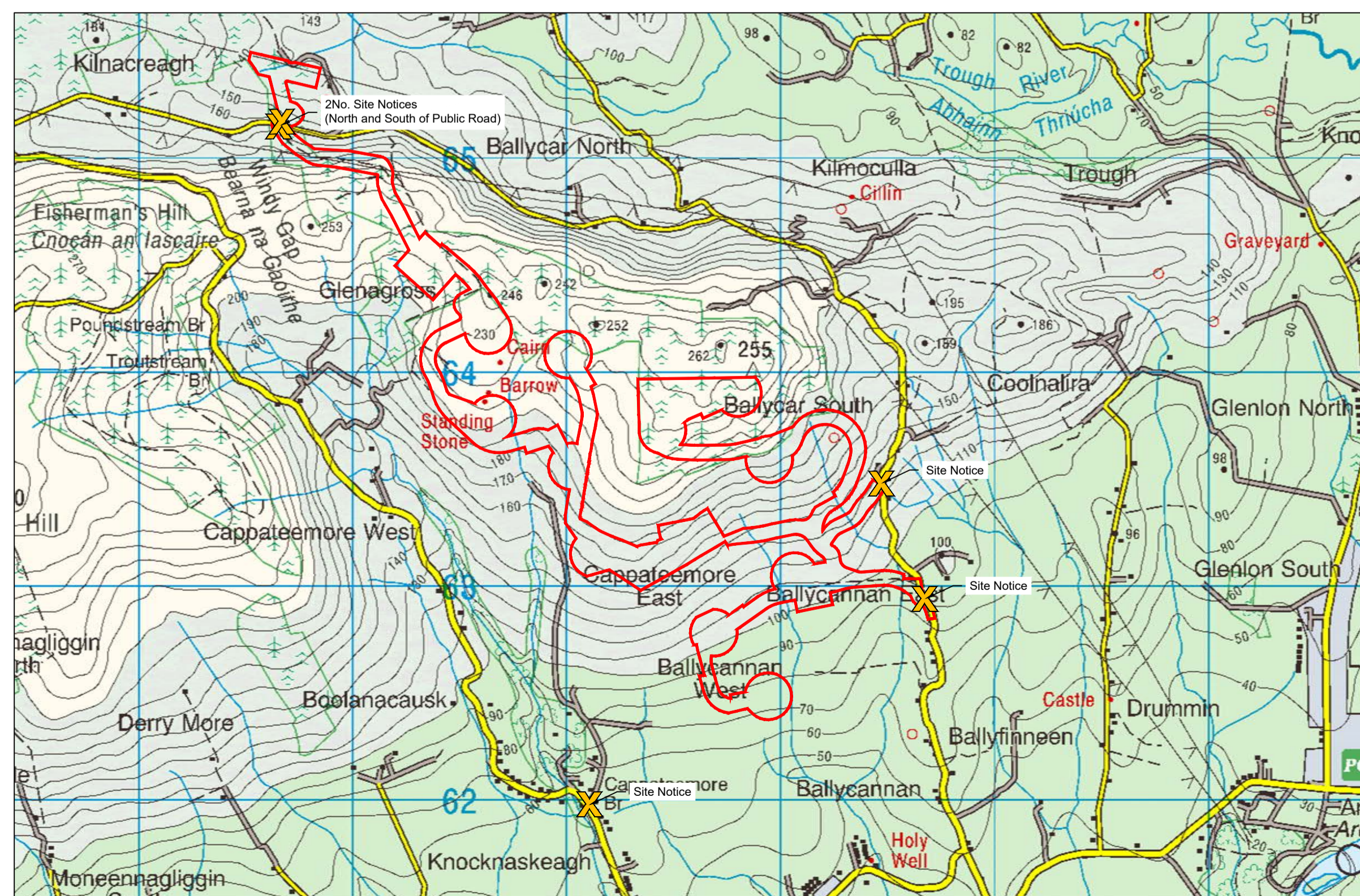
Drawing Number	Drawing Title	Drawing Size
05923-DR-135	Gate & Fence Details	A2
05923-DR-136	Substation Compound Drainage, Retention Seperator Tank, Foul Water Holding Tank Details	A2
05923-DR-137	Telecoms Pole Elevation View	A3
05923-DR-138	Rain Water Harvesting Tank & Vent Details	A1
05923-DR-139	Cut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



Site Location Scale 1:200,000



Site Location Scale 1:50,000



Site Location Scale 1:20,000

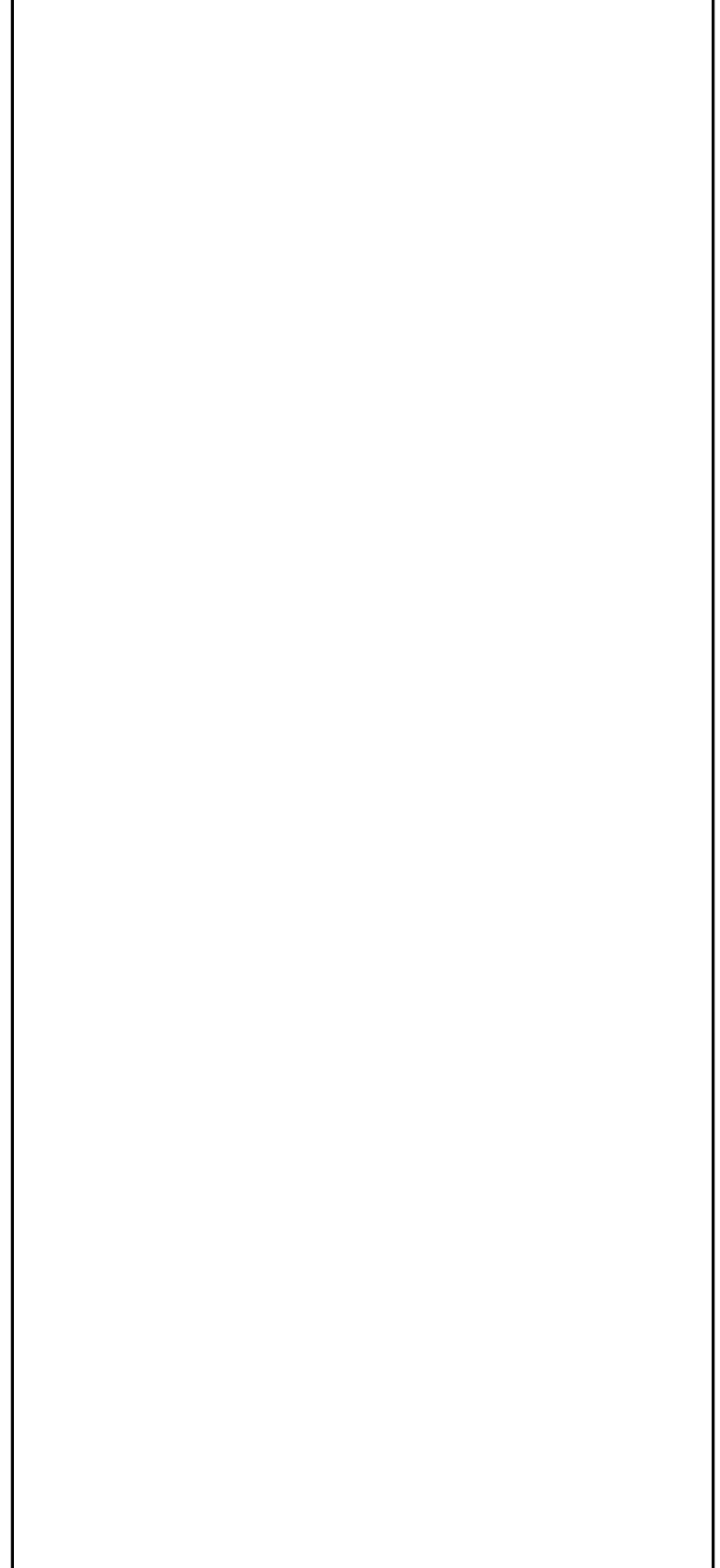


Site Location Map Of Ireland Not to Scale

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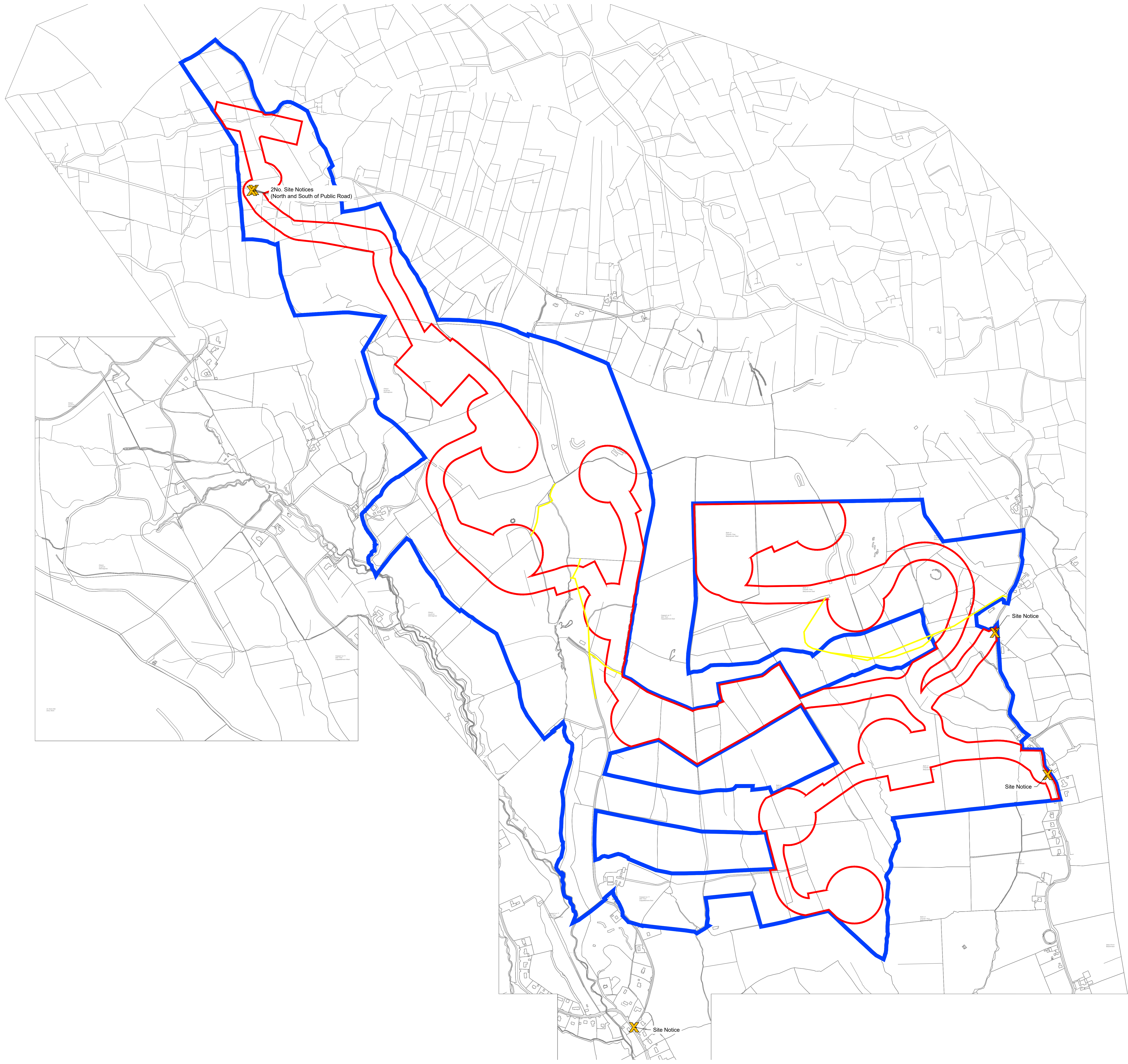
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- LEGEND:
- Planning Application Boundary
 - Site Notice



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OSI DISCOVERY TILE NO: 1414, 1416, 1614 & 1616

PO1 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY
PROJECT: Ballycar Wind Farm			
TITLE: Site Context Map			
CLIENT:			
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie			
DRAWN: JK	CHECKED: PC	APPROVED: OH	
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown	
STATUS DESCRIPTION: FOR INFORMATION			STATUS: S2
DRAWING NUMBER: 2215 - MWP - 00 - 00 - DR - C - 5001			REV: PO1



2No. Site Notices
(North and South of Public Road)

Site Notice

Site Notice

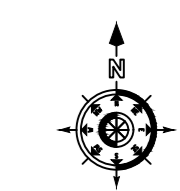
Site Notice

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LEGEND:

	Landholding Boundary
	Planning Application Boundary
	Wayveave
	Site Notice



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OSI SHEET NO: 4522-A, 4522-C, 4522-B, 4563-C,
4562-D, 4521-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	18.12.23	Issued For Planning	JK	PC

PROJECT:
Ballycar Wind Farm

TITLE:
Planning Application and Landholding Boundary

CLIENT:

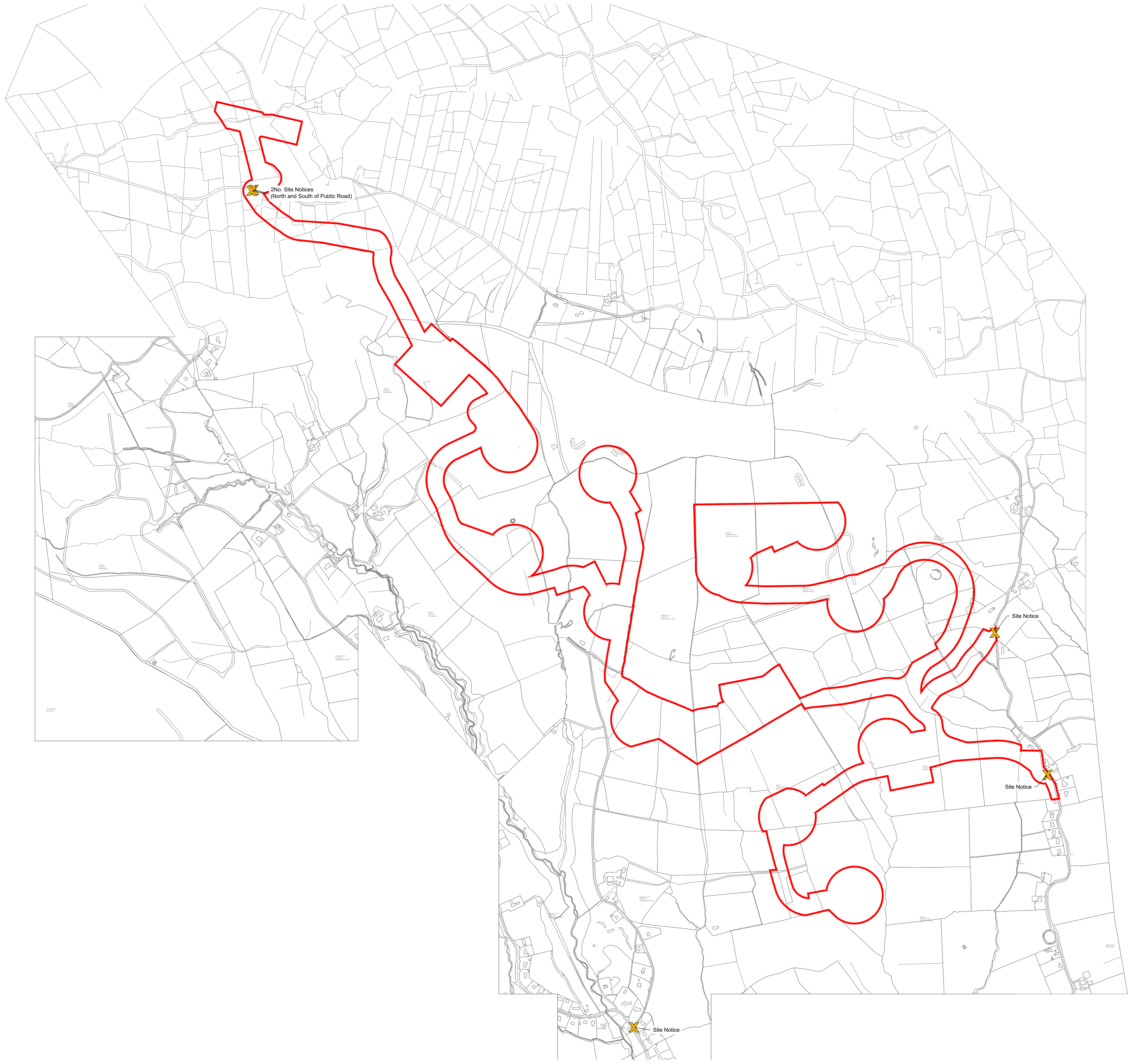
MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK

DRAWN	CHECKED	APPROVED
JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE:
22156	December 2023	1 : 5,000

STATUS DESCRIPTION:	FOR INFORMATION	STATUS:
		S2



DRAWING NUMBER:	REV:
22156 - MWP - 00 - 00 - DR - C - 5002	P01



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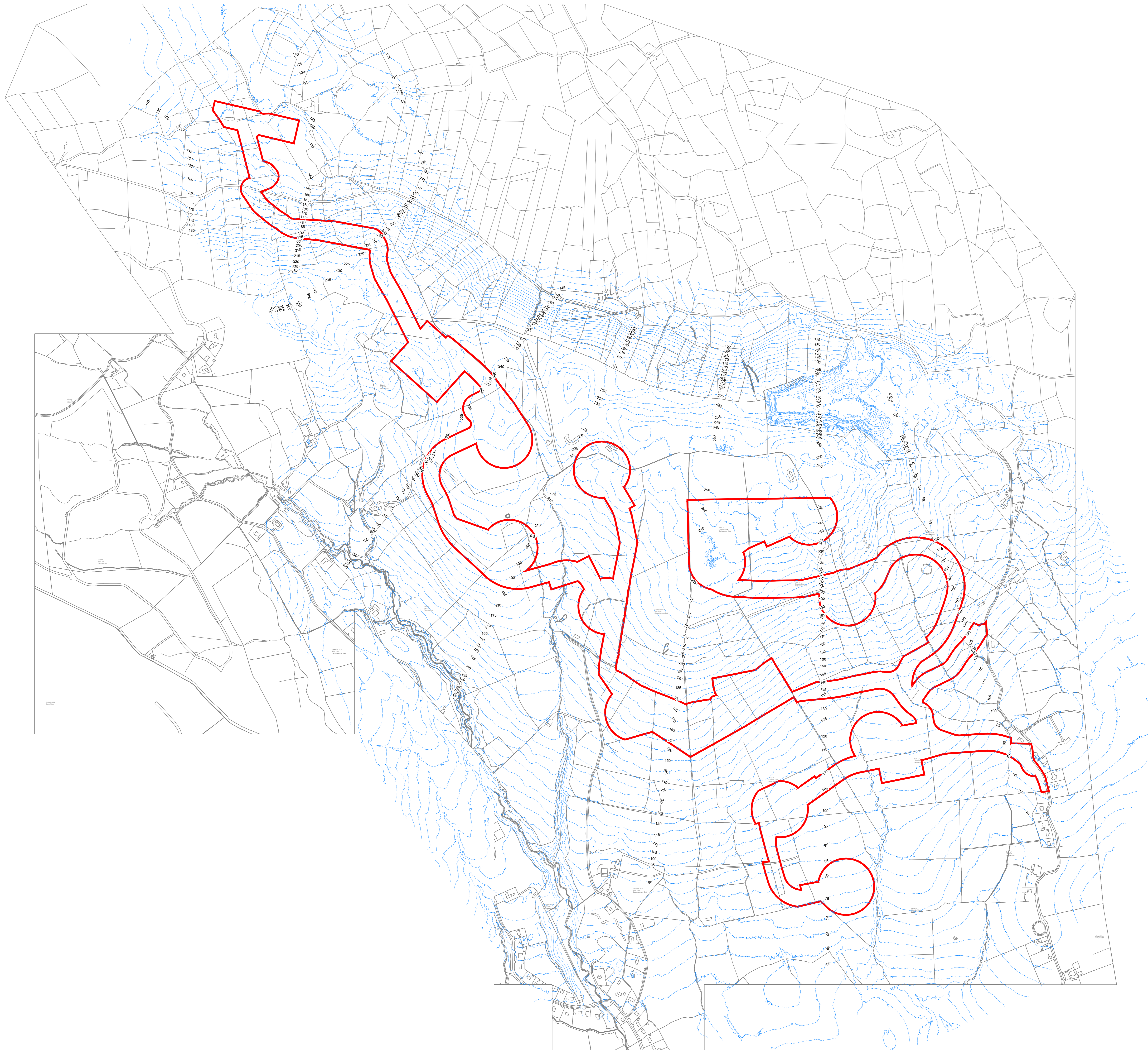
LEGEND:

	Planning Application Boundary
	Site Notice

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OSI SHEET NO: 4522-A, 4522-C, 4522-B, 4563-C,
4562-D, 4521-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	18.12.23	Issued For Planning	JK	PC
PROJECT:				
Ballycar Wind Farm				
TITLE:				
Planning Application Boundary				
CLIENT:				
				
				
ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK NEW-YORK				
DRAWN	CHECKED	APPROVED		
JK	PC	OH		
PROJECT NUMBER:	DATE:	SCALE (A4)		
22156	December 2023	1 : 5,000		
STATUS DESCRIPTION			STATUS	
FOR INFORMATION			S2	
DRAWING NUMBER:	REV:			
22156 - MWP - 00 - 00 - DR - C - 5003	P01			



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LEGEND:

- Planning Application Boundary
- Existing Contour

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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
001	08.12.23	Issued For Planning	JK	PC

PROJECT:
Ballycar Wind Farm

TITLE:
Existing Contours

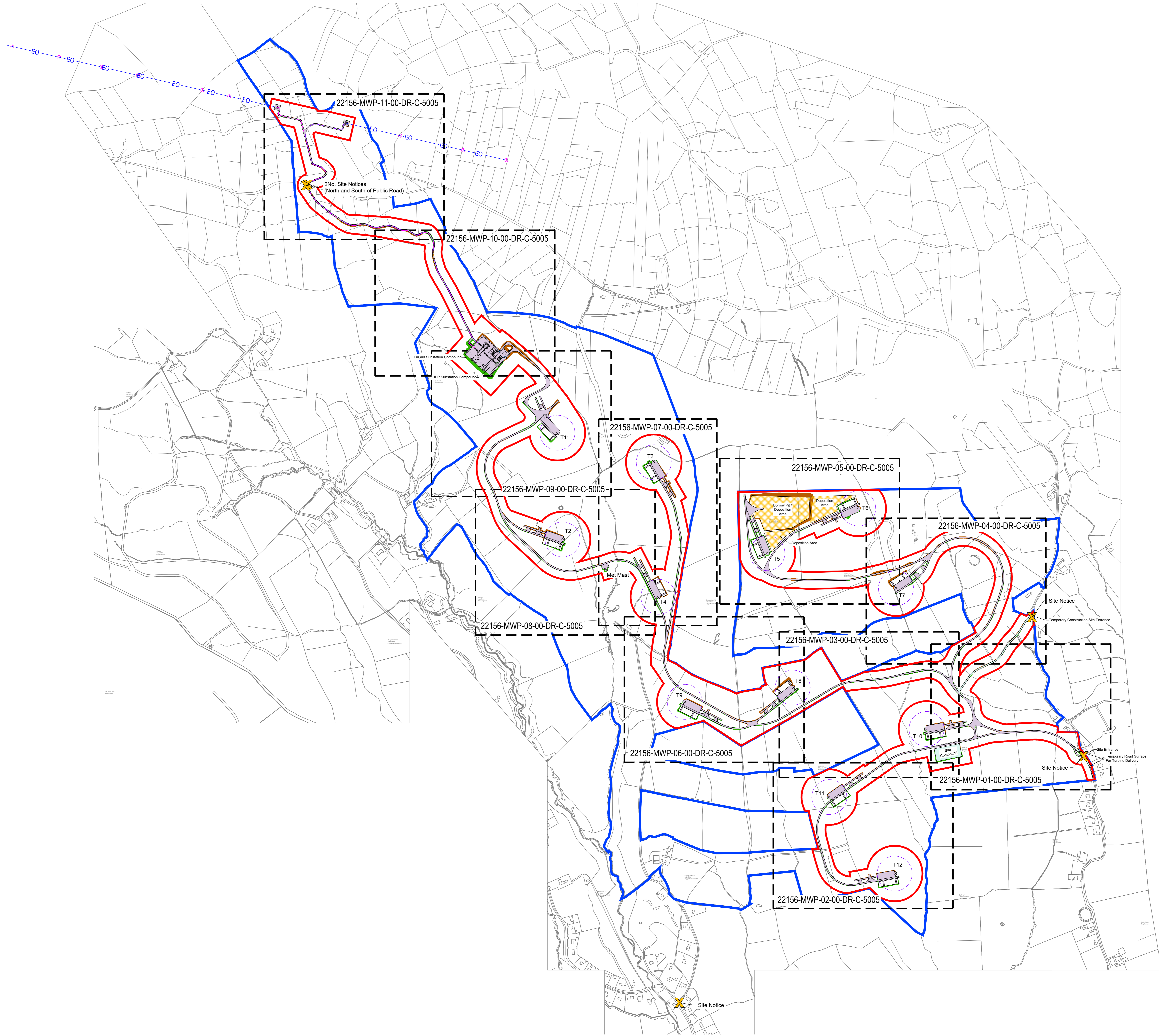


DRAWN	CHECKED	APPROVED
JK	PC	OH

PROJECT NUMBER: 22156 DATE: December 2023 SCALE: 1:5,000

STATUS: FOR INFORMATION STAGE: S2

DRAWING NUMBER: 22156 - MWP - 00 - DR - C - 5004 REV: P01



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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

	Landholding Boundary
	Planning Application Boundary
	Turbine Handstand
	68m Blade Overall
	Access Track (5m Wide)
	Temporary Access Track (5m Wide) / Temporary Site Compound
	Borrow Pit / Deposition Area
	110kV Grid Connection - Circuit A
	110kV Grid Connection - Circuit B
	Existing Overhead 110kV Line
	Cut
	Fill

Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	217.5
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

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OSI SHEET NO: 4522-A, 4522-C, 4522-B, 4563-C, 4562-D, 4521-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	18.12.23	Issued For Planning	JK	PC

PROJECT:
Ballycar Wind Farm

TITLE:
Site Layout - Master Sheet

CLIENT:

DESIGNED BY:
JK

CHECKED BY:
PC

APPROVED BY:
OH

PROJECT NUMBER:
22156

DATE:
December 2023

SCALE B/A:
1 : 5,000

STATUS DESCRIPTION:
FOR INFORMATION

STATUS:
S2

DRAWING NUMBER:
22156 - MWP - 00 - 00 - DR - C - 5005

REV:
P01

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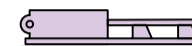
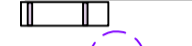



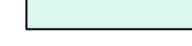




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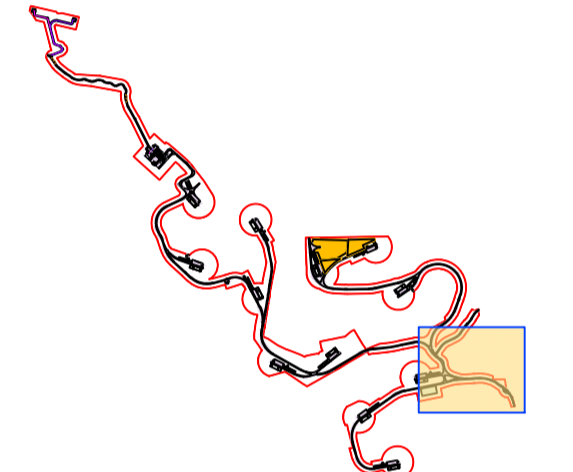
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185



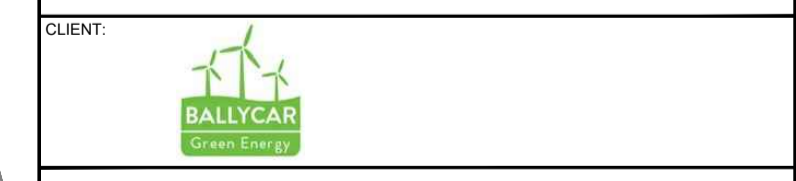
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P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

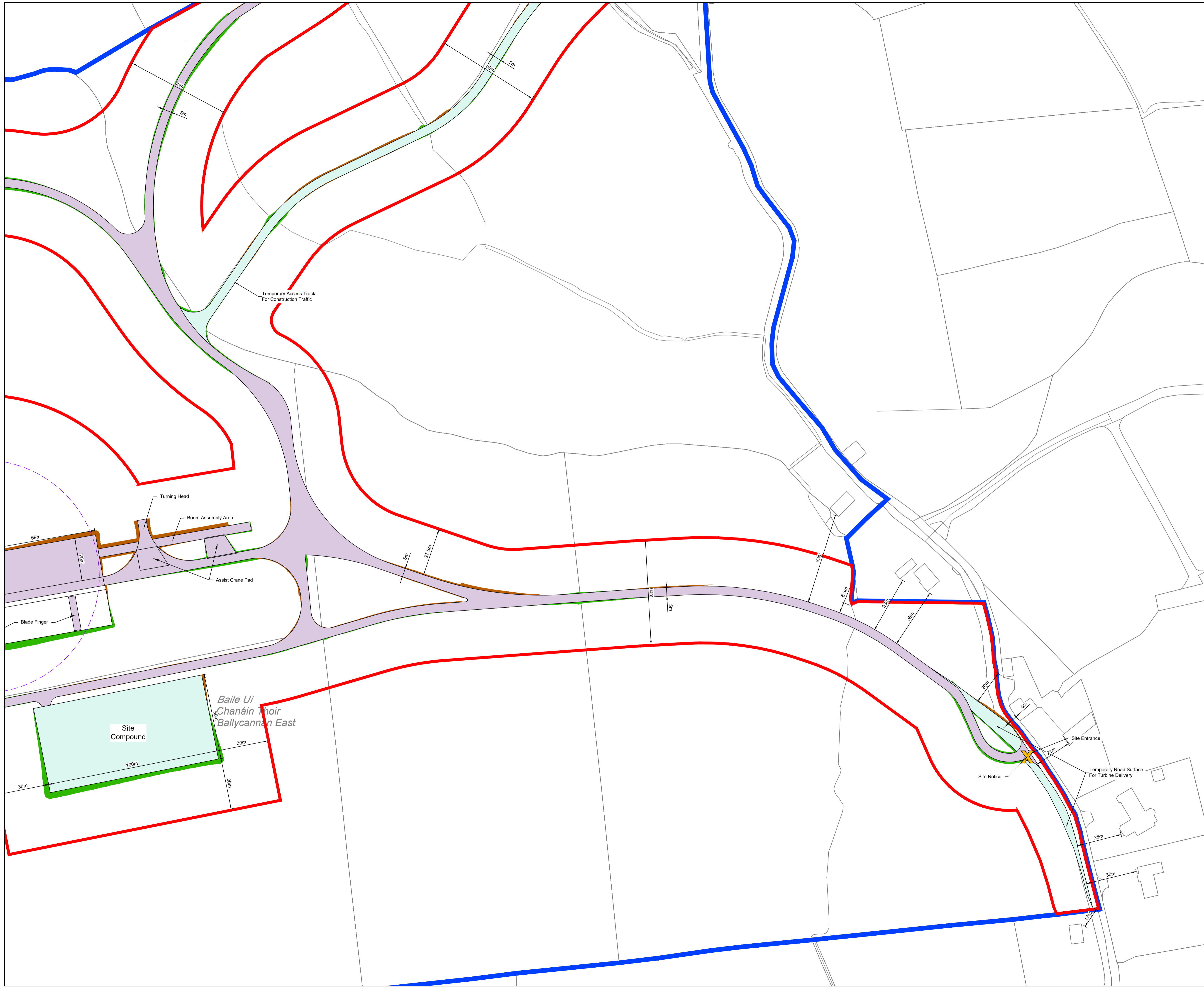
PROJECT: Ballycar Wind Farm

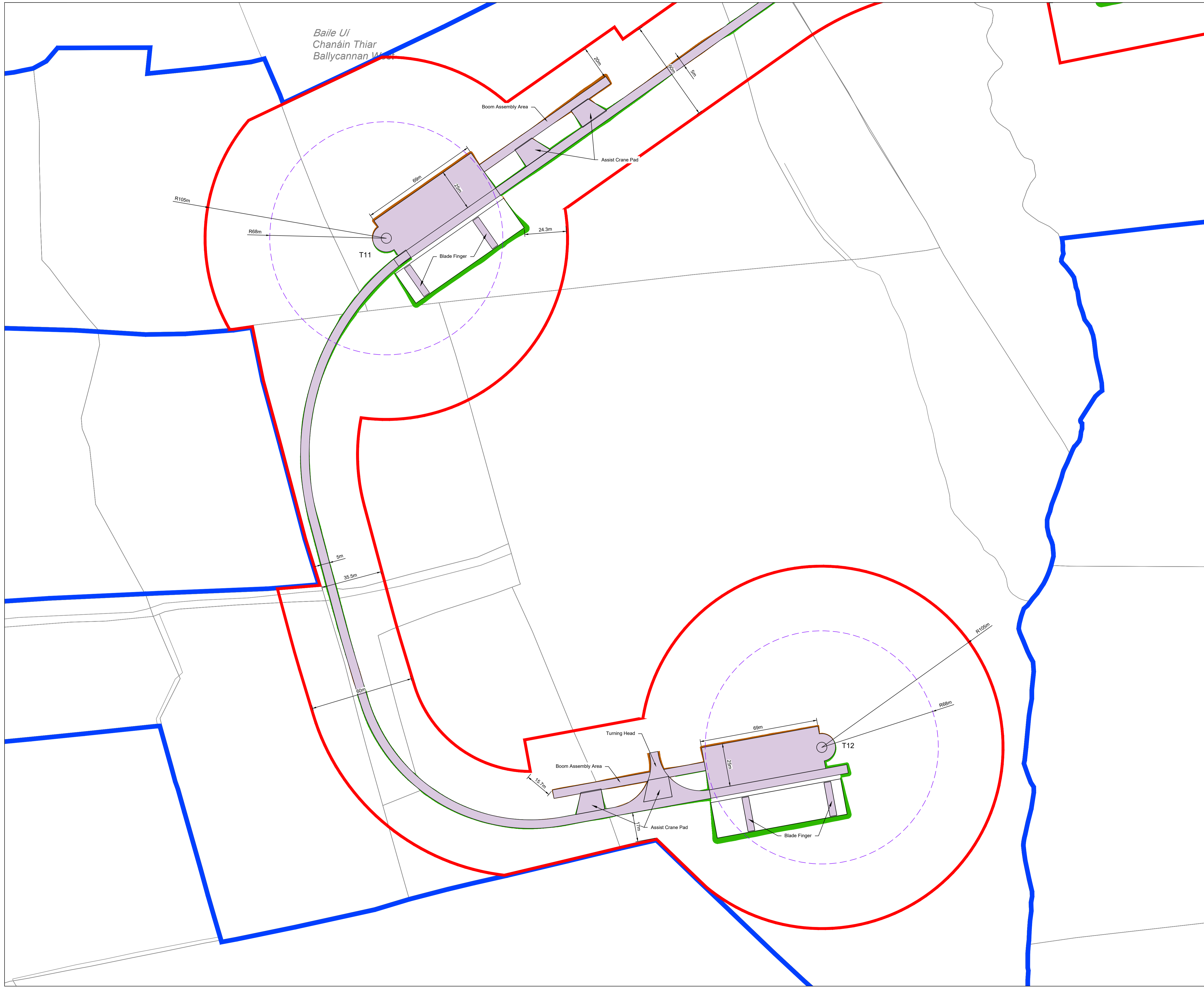
TITLE: Site Layout - Sheet 1



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 01 - 00 - DR - C - 5005	REV: P01
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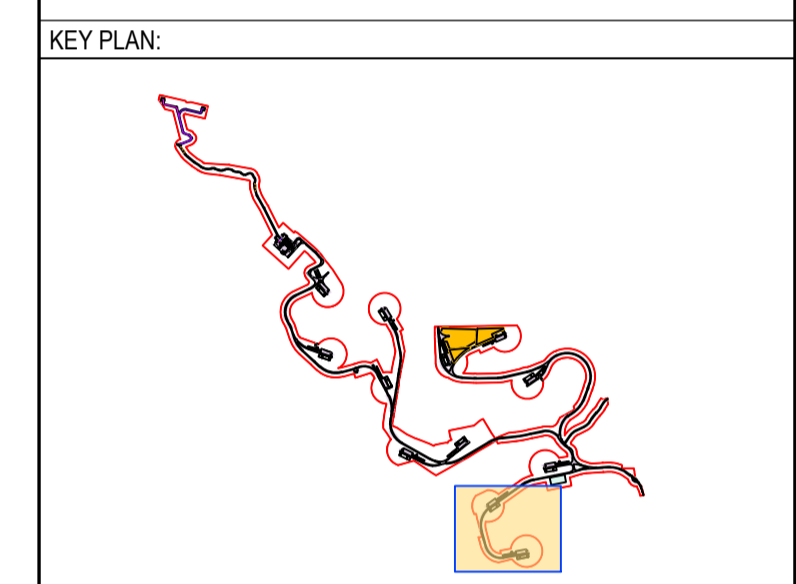
Baile Uí
Chanáin Thiar
Ballycannon Wood

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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

- LEGEND:
- Landholding Boundary
 - Planning Application Boundary
 - Turbine Hardstand
 - 68m Blade Oversail
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - 110kV Grid Connection - Circuit A
 - 110kV Grid Connection - Circuit B
 - Existing Overhead 110kV line
 - Cut
 - Fill



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

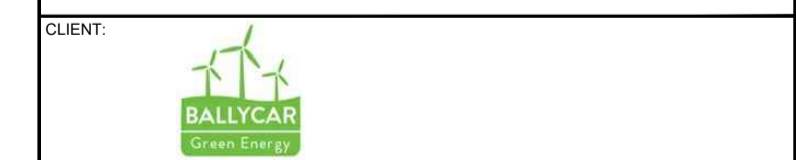
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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY

PROJECT:
Ballycar Wind Farm

TITLE:
Site Layout - Sheet 2



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 02 - 00 - DR - C - 5005	REV: P01
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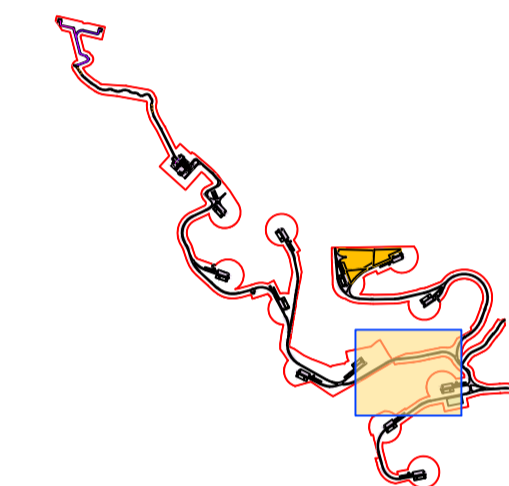
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185




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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	08.12.23	Issued For Planning	JK	PC

PROJECT: Ballycar Wind Farm

TITLE: Site Layout - Sheet 3

CLIENT: 

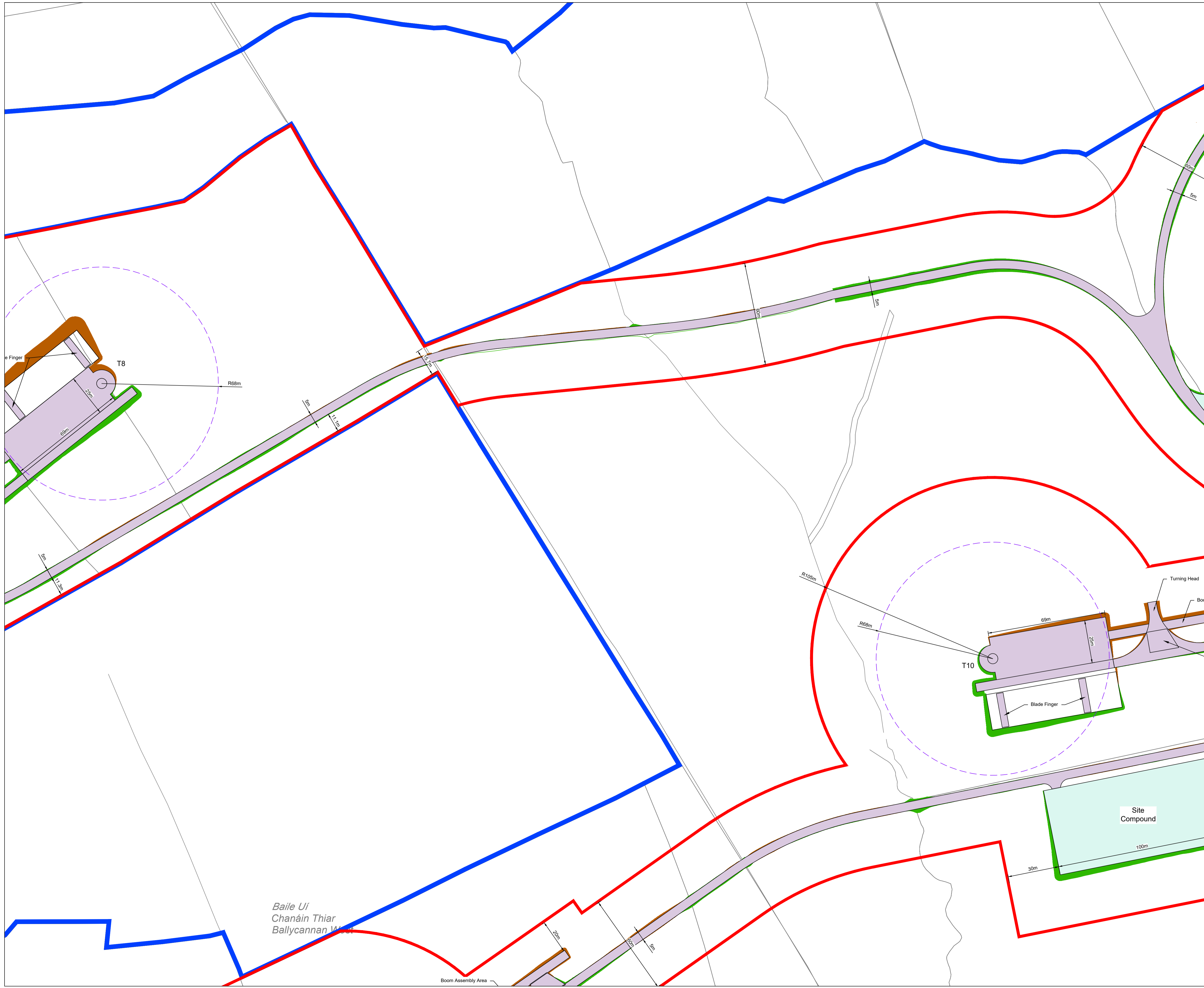
MWP
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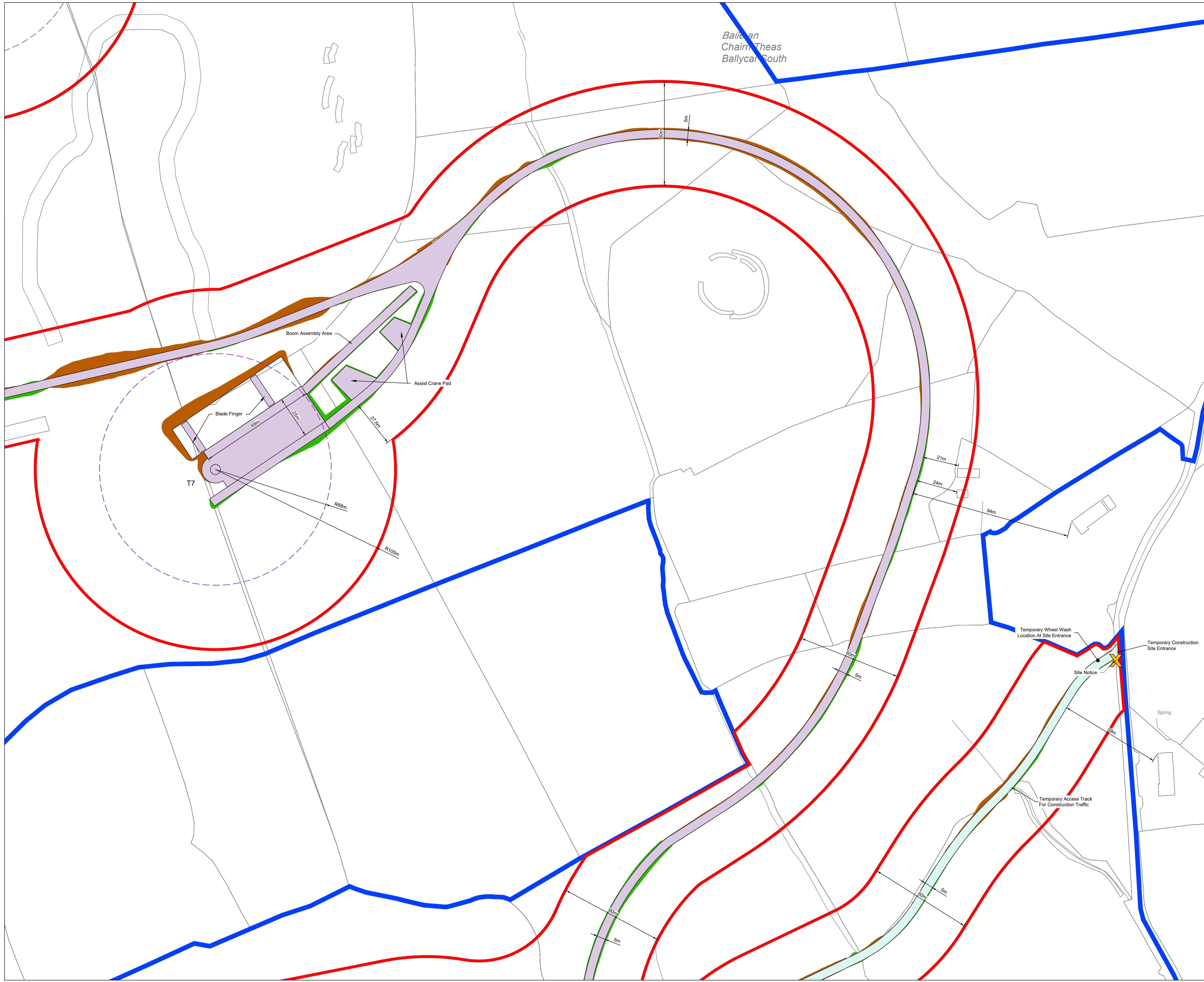
DRAWN:	CHECKED:	APPROVED:
JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 03 - 00 - DR - C - 5005	P01





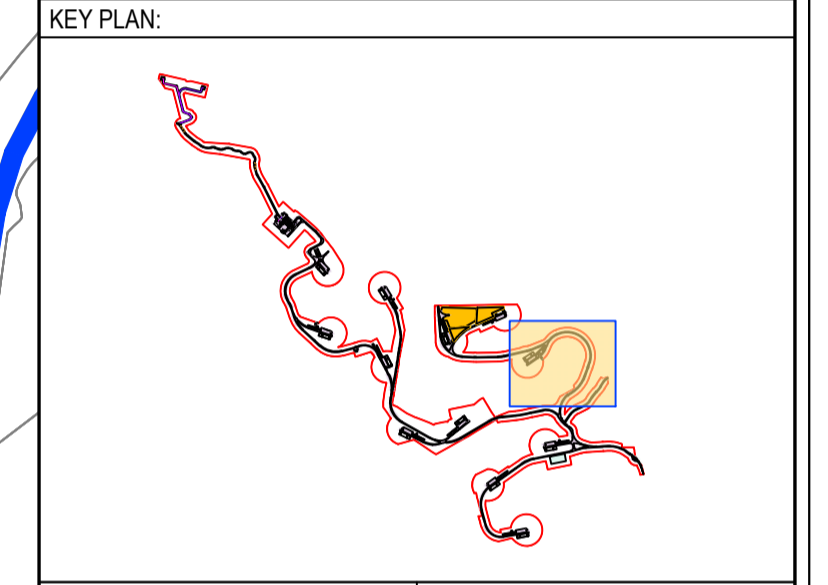
Baileán Chairn Theas
Ballycar South

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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

- LEGEND:
- Landholding Boundary
 - Planning Application Boundary
 - Turbine Hardstand
 - 68m Blade Oversail
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - 110kV Grid Connection - Circuit A
 - 110kV Grid Connection - Circuit B
 - Existing Overhead 110kV line
 - █ Cut
 - █ Fill



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

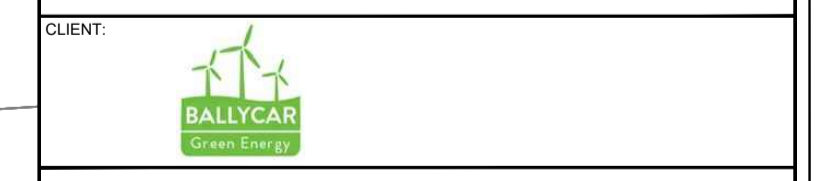
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OSI SHEET NO: 4622-A, 4622-B, 4622-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

PROJECT:
Ballycar Wind Farm

TITLE:
Site Layout - Sheet 4



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 04 - 00 - DR - C - 5005	REV: P01
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DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	08.12.23	Issued For Planning	JK	PC

PROJECT: Ballycar Wind Farm

TITLE: Site Layout - Sheet 5

CLIENT:  BALLYCAR Green Energy

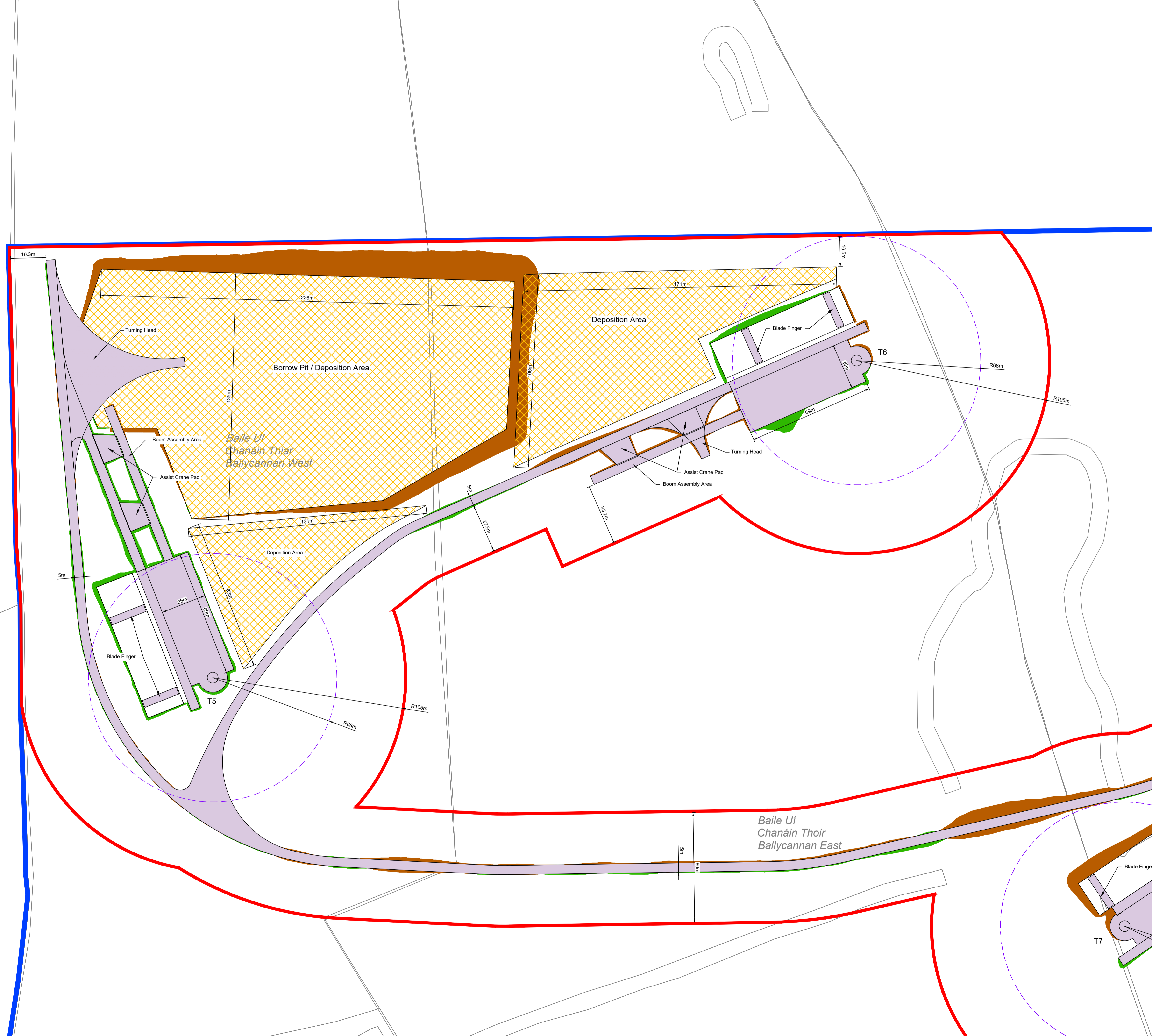
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DRAWN:	CHECKED:	APPROVED:
JK	PC	OH

PROJECT NUMBER: 22156 DATE: December 2023 SCALE @ A1: 1 : 1,000

STATUS DESCRIPTION: FOR INFORMATION STATUS: S2

DRAWING NUMBER: 22156 - MWP - 05 - 00 - DR - C - 5005 REV: P01



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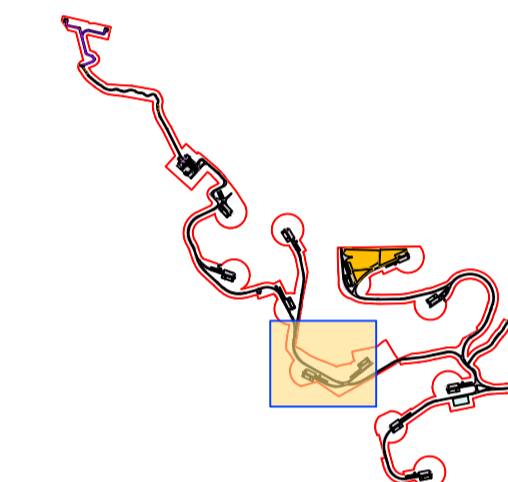
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

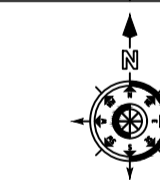
LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185



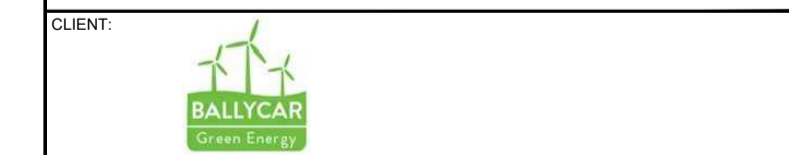
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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY

PROJECT: Ballycar Wind Farm

TITLE: Site Layout - Sheet 6

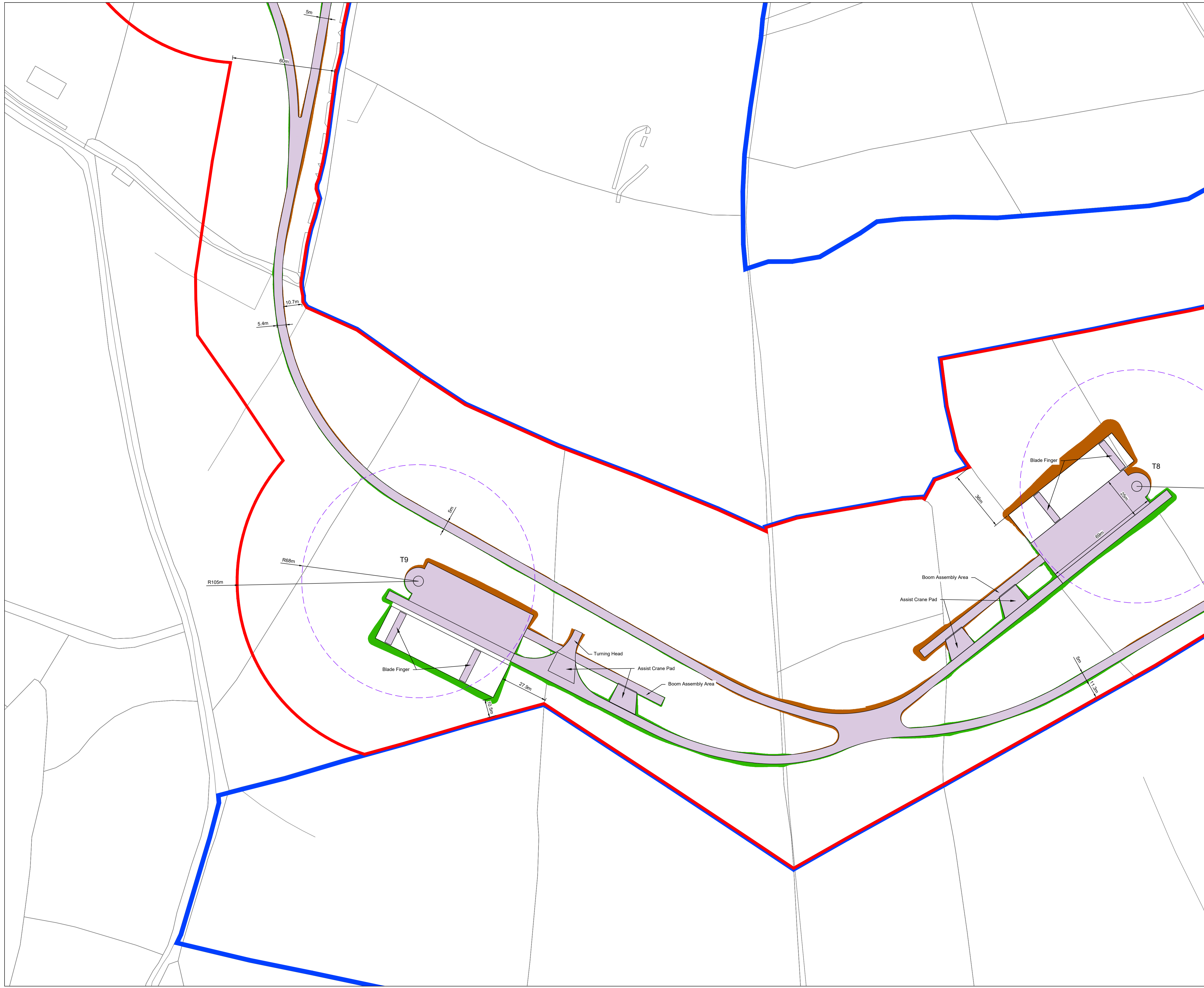


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PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
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STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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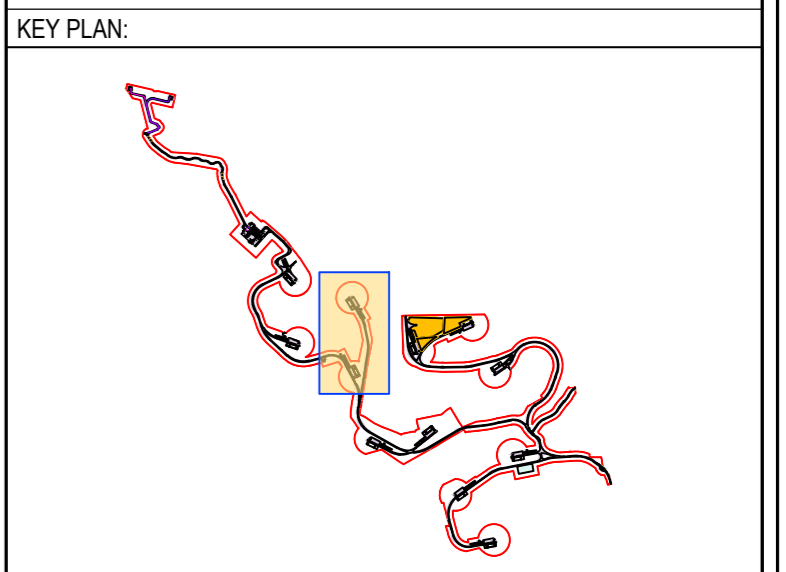


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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

- LEGEND:**
- Landholding Boundary
 - Planning Application Boundary
 - Turbine Hardstand
 - 68m Blade Oversail
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - 110kV Grid Connection - Circuit A
 - 110kV Grid Connection - Circuit B
 - Existing Overhead 110kV line
 - Cut
 - Fill



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Site Layout - Sheet 7

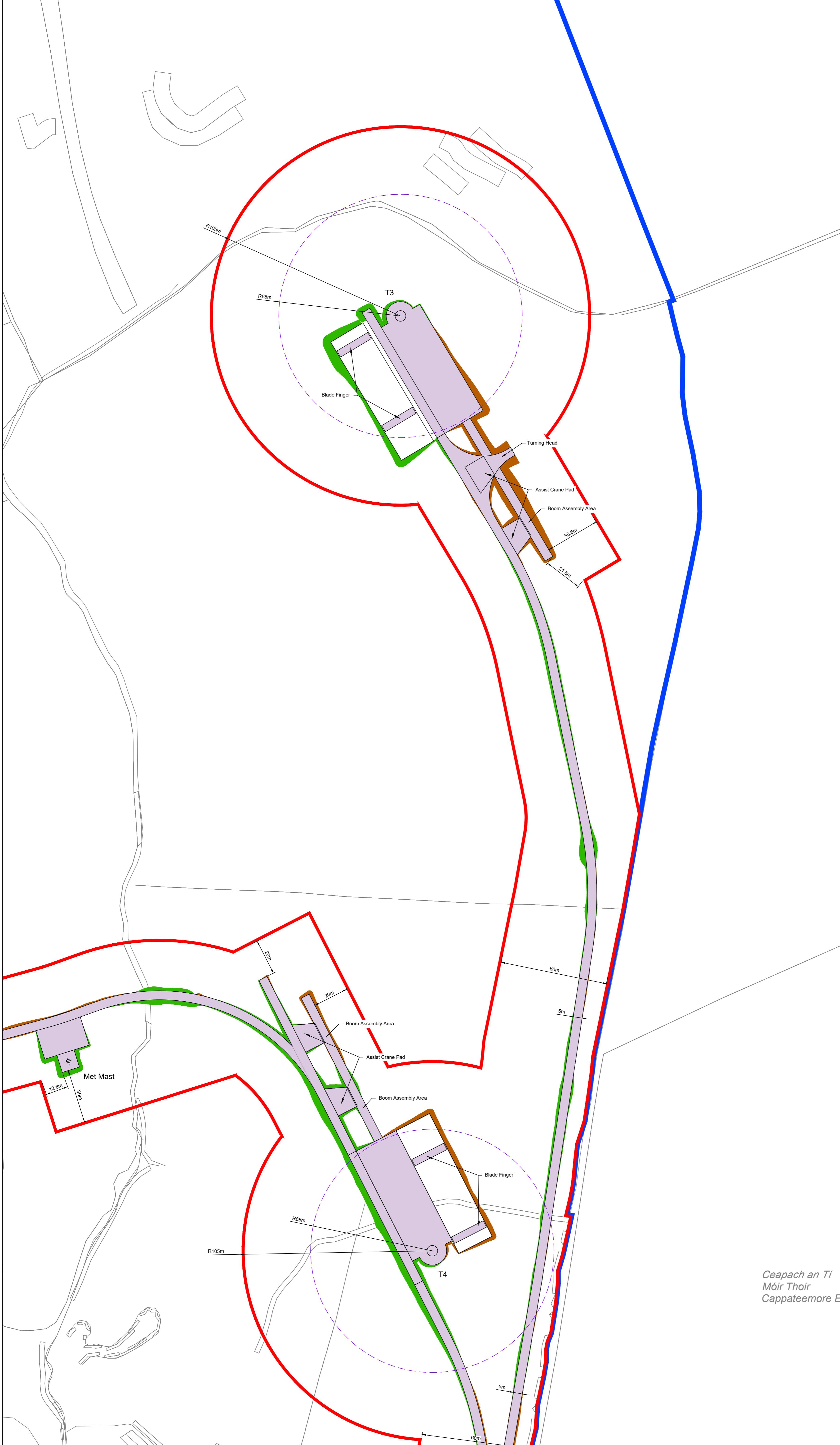
CLIENT:

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PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000

STATUS DESCRIPTION: FOR INFORMATION STATUS: S2

DRAWING NUMBER: 22156 - MWP - 07 - 00 - DR - C - 5005	REV: P01
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*Ceapach an Tí
Móir Thoir
Cappateamore Ea*

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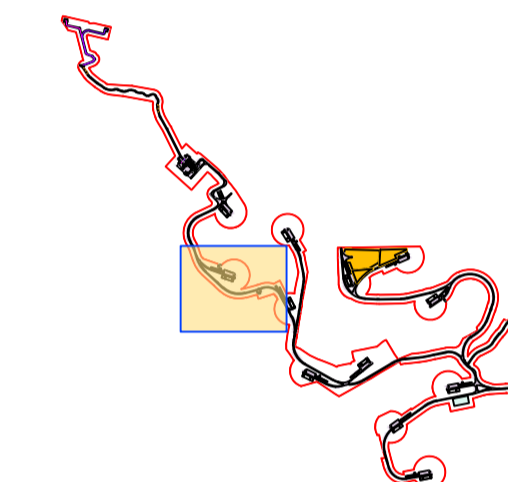
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185



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4562-D, 4621-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	08.12.23	Issued For Planning	JK	PC

PROJECT: Ballycar Wind Farm

TITLE: Site Layout - Sheet 8

CLIENT:

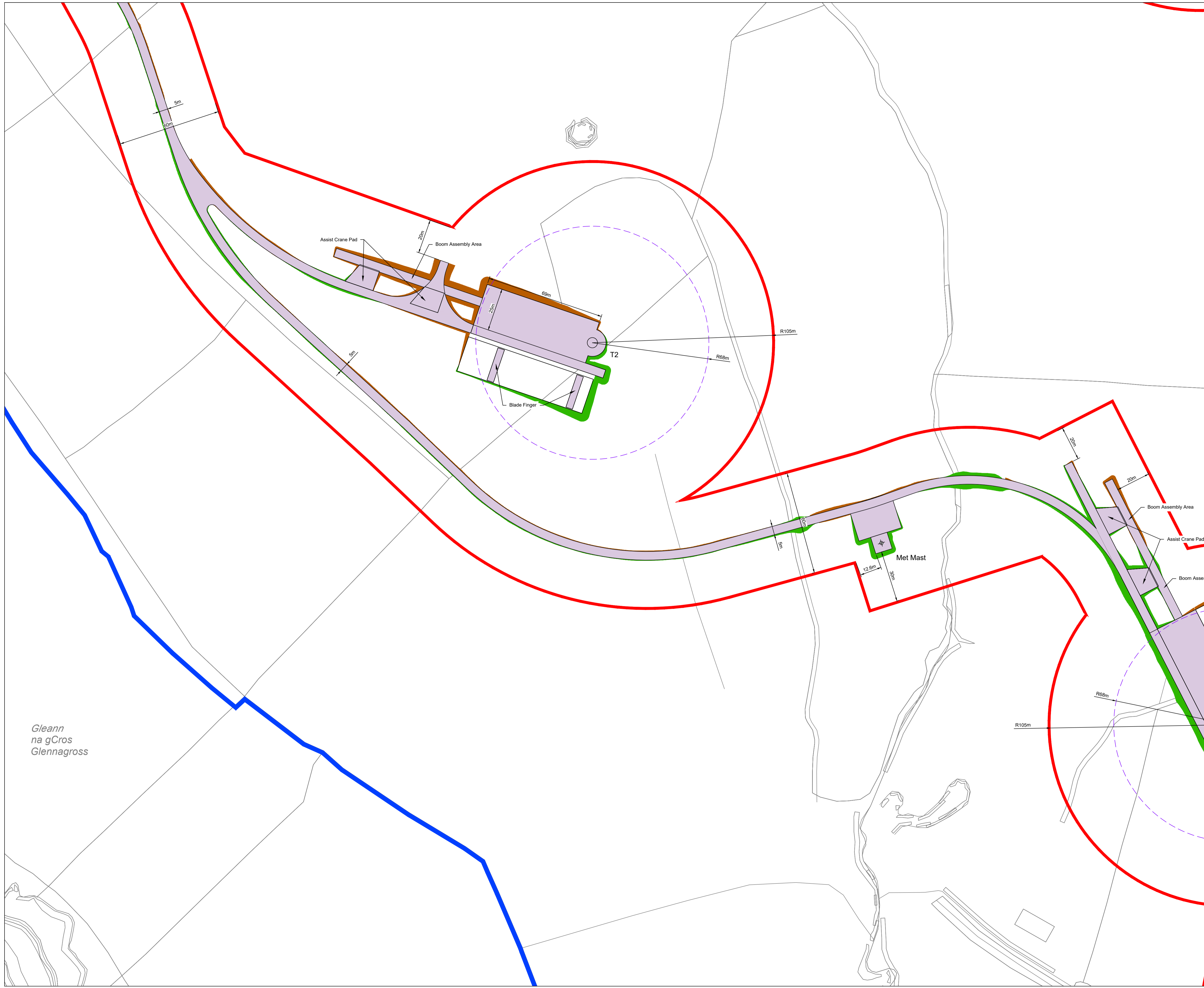


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JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 08 - 00 - DR - C - 5005	P01



Gleann
na gCros
Glennagross

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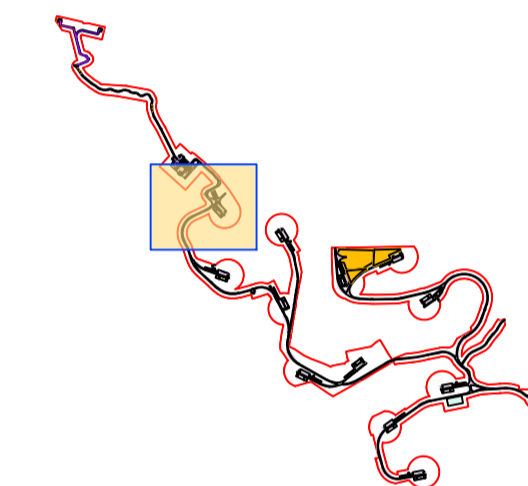
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

-  Landholding Boundary
-  Planning Application Boundary
-  Turbine Hardstand
-  68m Blade Oversail
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  110kV Grid Connection - Circuit A
-  110kV Grid Connection - Circuit B
-  Existing Overhead 110kV line
-  Cut
-  Fill

KEY PLAN:



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

PROJECT:
 Ballycar Wind Farm

TITLE:
 Site Layout - Sheet 9

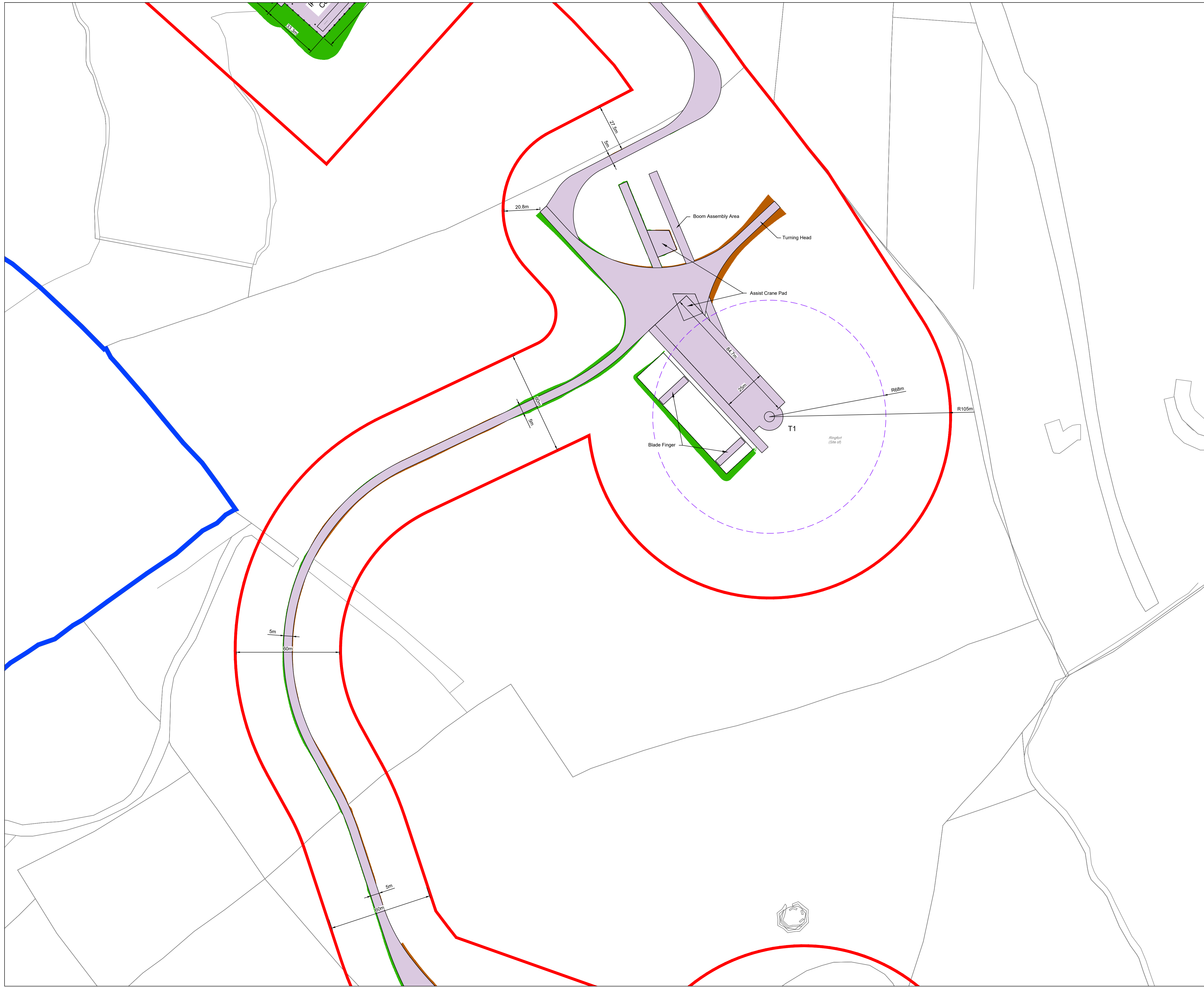


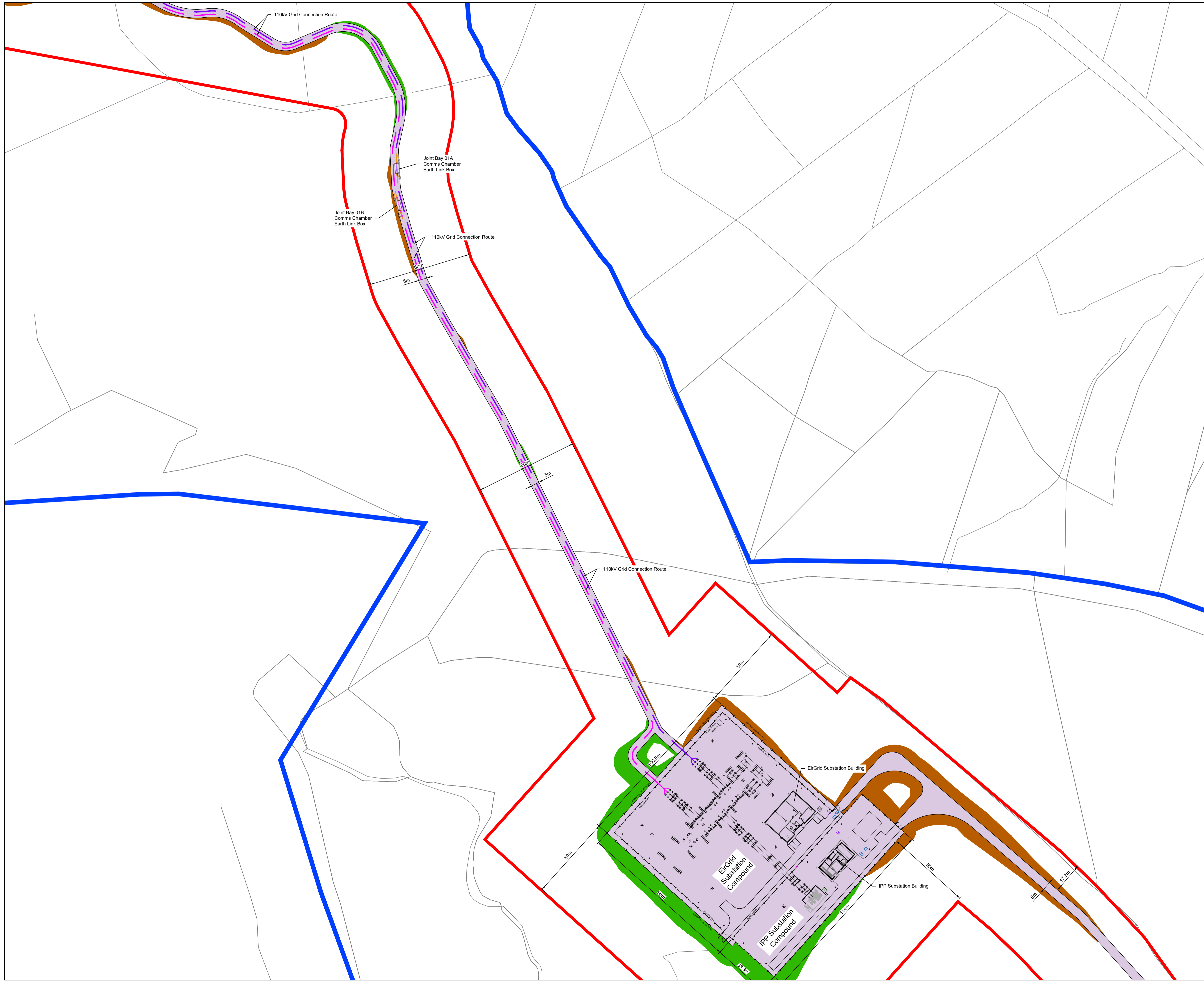
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JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 09 - 00 - DR - C - 5005	P01





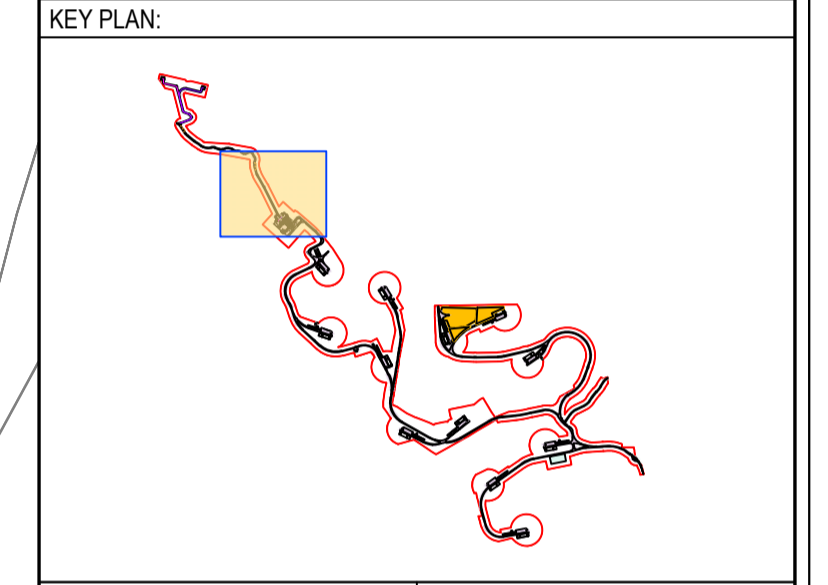
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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

LEGEND:

	Landholding Boundary
	Planning Application Boundary
	Turbine Hardstand
	68m Blade Oversail
	Access Track (5m Wide)
	Temporary Access Track (5m Wide) / Temporary Site Compound
	Borrow Pit / Deposition Area
	110kV Grid Connection - Circuit A
	110kV Grid Connection - Circuit B
	Existing Overhead 110kV line
	Cut
	Fill



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

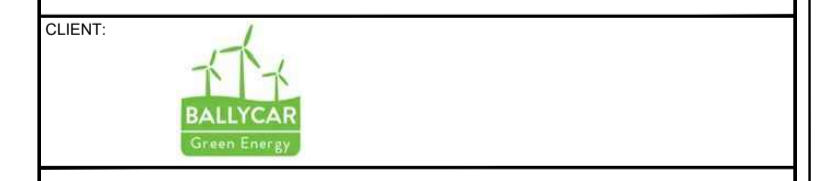
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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

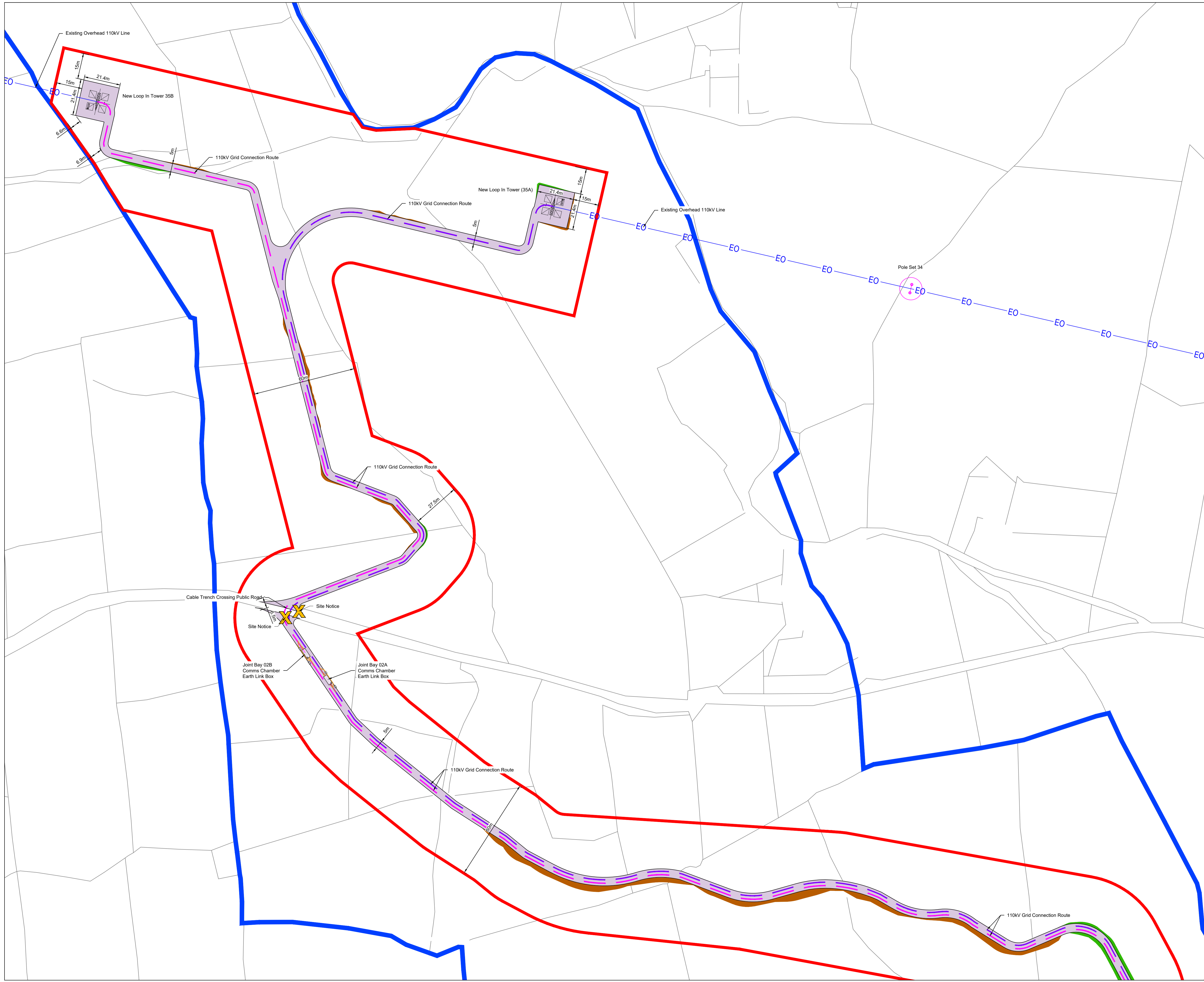
PROJECT:
 Ballycar Wind Farm

TITLE:
 Site Layout - Sheet 10



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PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 10 - 00 - DR - C - 5005 **REV:** P01

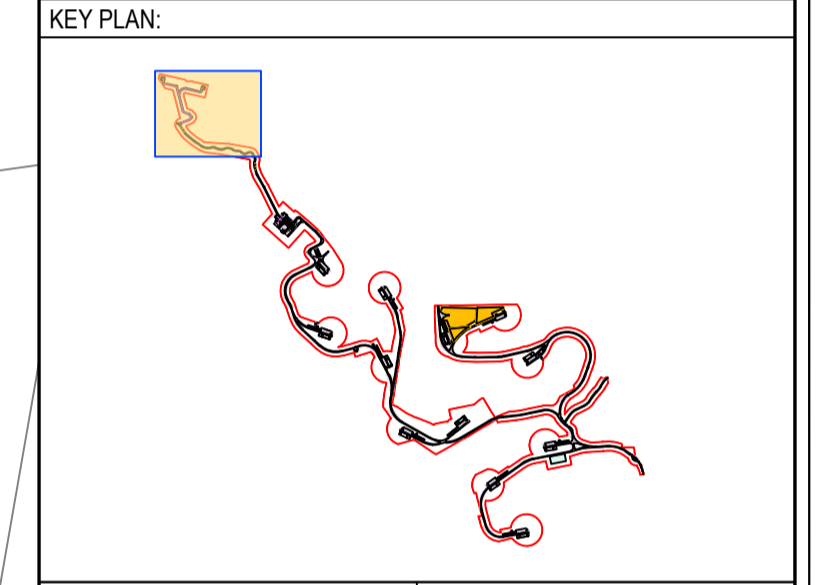


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

- LEGEND:
- Landholding Boundary
 - Planning Application Boundary
 - Turbine Hardstand
 - 68m Blade Oversail
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - 110kV Grid Connection - Circuit A
 - 110kV Grid Connection - Circuit B
 - Existing Overhead 110kV line
 - Cut
 - Fill



Turbine No	Existing Ground Level (m)
T1	233.5
T2	204.1
T3	232.1
T4	192.6
T5	239.7
T6	247.6
T7	194.8
T8	161.4
T9	166.4
T10	114.5
T11	107.6
T12	76.8
Met Mast	185

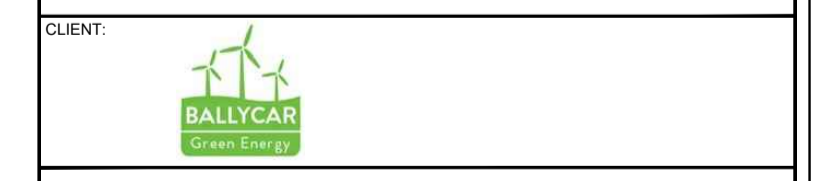
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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

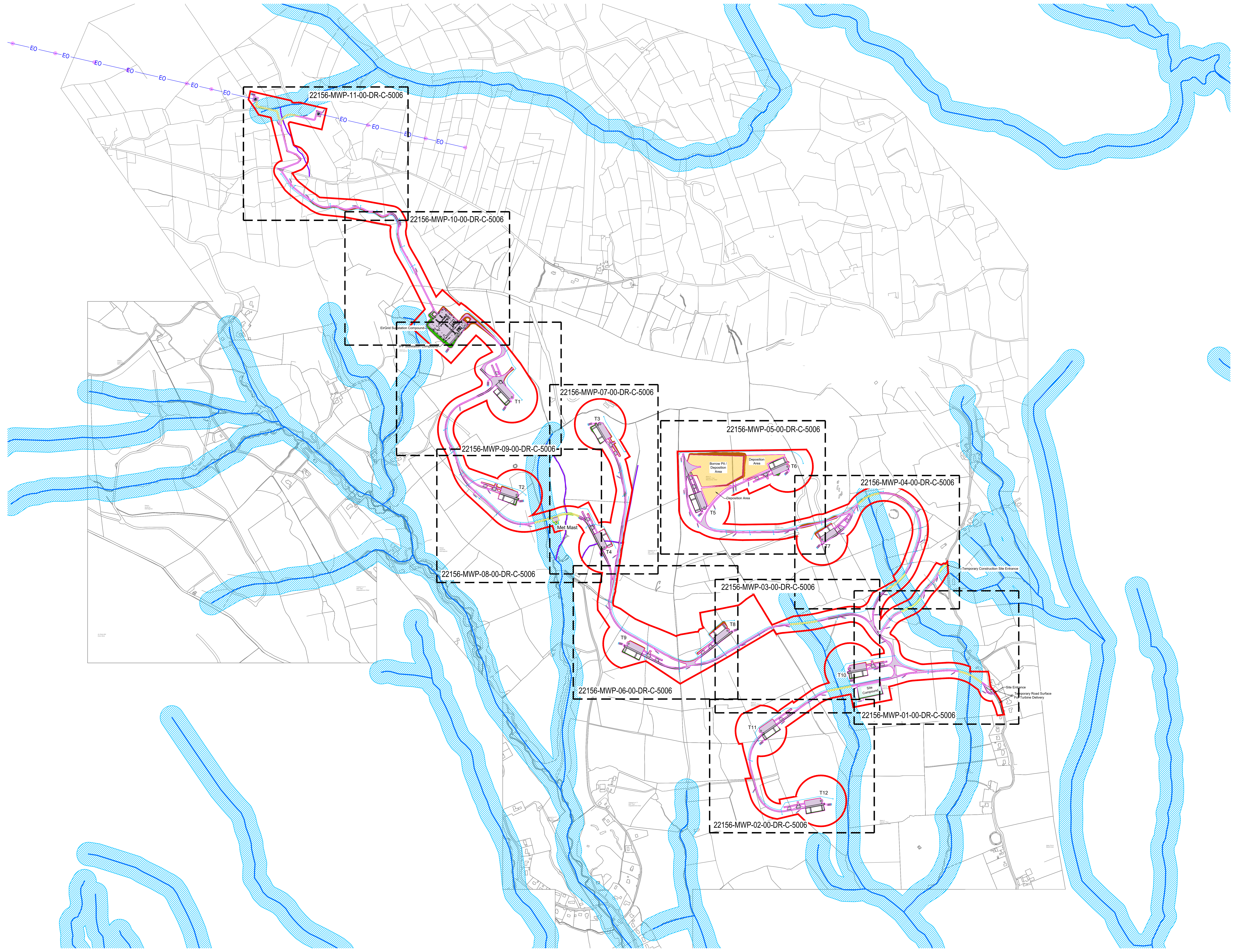
PROJECT:
 Ballycar Wind Farm

TITLE:
 Site Layout - Sheet 11



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 11 - 00 - DR - C - 5005 REV: P01



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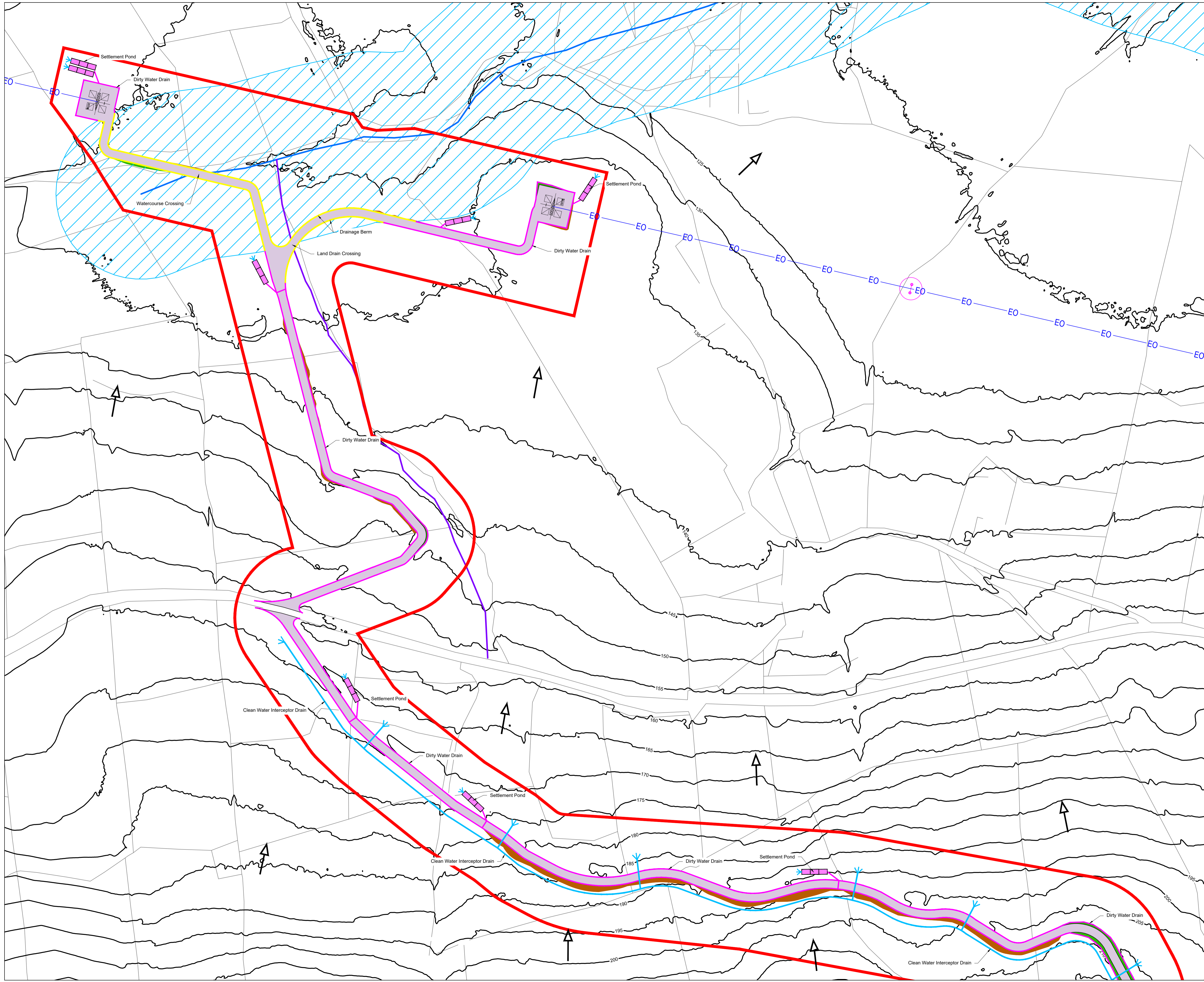
DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110kV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dry Water Drain
 - Dry Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Cut
 - Fill

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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

REV	DATE	DESCRIPTION	BY	APP
P01	08.12.23	Issued For Planning	JK	PC
PROJECT:				
Ballycar Wind Farm				
TITLE:				
Drainage Layout - Master Sheet				
CLIENT:				
 MWP ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK				
DRAWN	CHKD	APPROVED		
JK	PC	OH		
PROJECT NUMBER:	DATE:	SCALE:		
22156	December 2023	1 : 5,000		
STATUS DESCRIPTION:	FOR INFORMATION	STATUS:	S2	
DRAWING NUMBER:	REV:			
22156 - MWP - 00 - 00 - DR - C - 5006	P01			



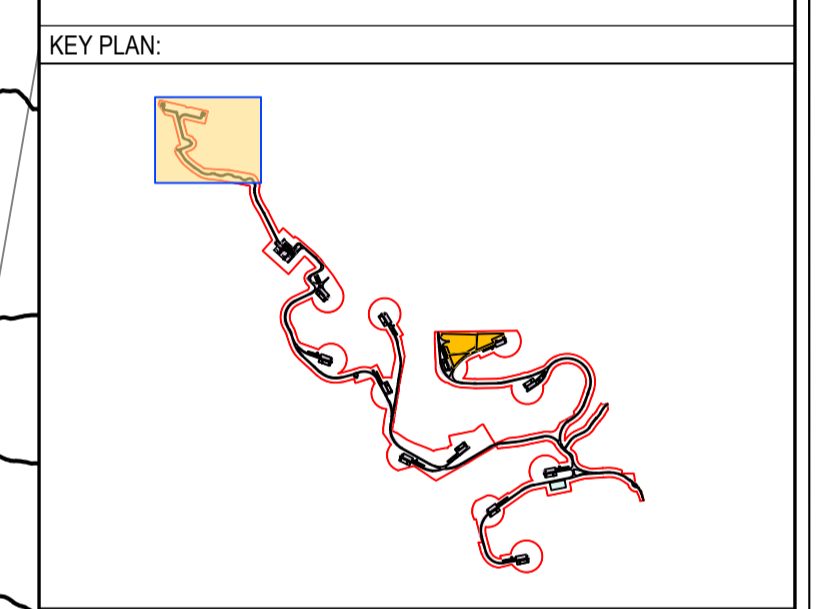
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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

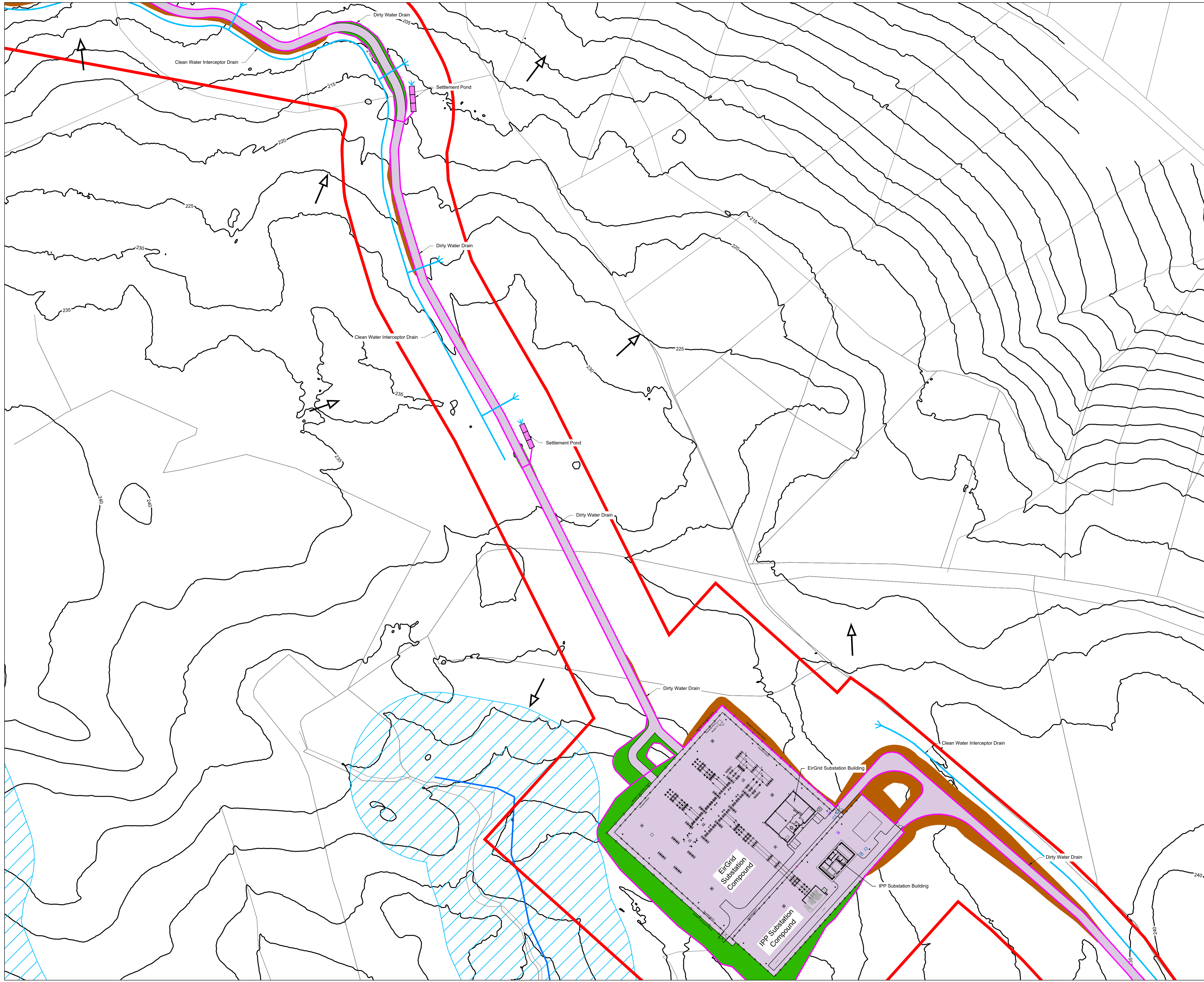
	Planning Application Boundary
	Turbine Hardstand
	Access Track (5m Wide)
	Temporary Access Track (5m Wide) / Temporary Site Compound
	Borrow Pit / Deposition Area
	Existing Overhead 110kV line
	Watercourse
	Land Drain - Observed From Field Surveys
	Watercourse 50m Buffer
	Dirty Water Drain
	Dirty Water Settlement Pond
	Clean Water Interceptor Drain
	Berm
	Slope Direction
	Existing Contour
	Cut
	Fill



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P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Drainage Layout - Sheet 11				
CLIENT:				
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie				
DRAWN:	CHECKED:	APPROVED:		
JK	PC	OH		
PROJECT NUMBER:	DATE:	SCALE @ A1:		
22156	December 2023	1 : 1,000		
STATUS DESCRIPTION:	FOR INFORMATION	STATUS:	S2	
DRAWING NUMBER:	22156 - MWP - 11 - 00 - DR - C - 5006	REV:	P01	



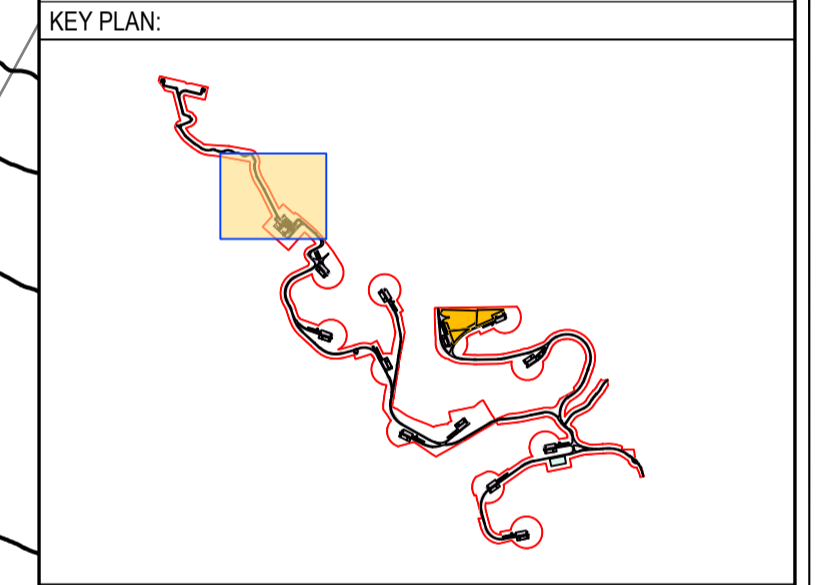
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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

	Planning Application Boundary
	Turbine Hardstand
	Access Track (5m Wide)
	Temporary Access Track (5m Wide) / Temporary Site Compound
	Borrow Pit / Deposition Area
	Existing Overhead 110kV line
	Watercourse
	Land Drain - Observed From Field Surveys
	Watercourse 50m Buffer
	Dirty Water Drain
	Dirty Water Settlement Pond
	Clean Water Interceptor Drain
	Berm
	Slope Direction
	Existing Contour
	Cut
	Fill



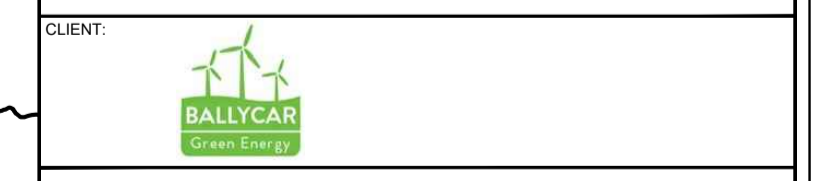
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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Drainage Layout - Sheet 10



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 10 - 00 - DR - C - 5006	REV: P01
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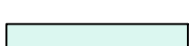








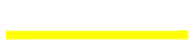
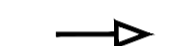
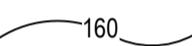


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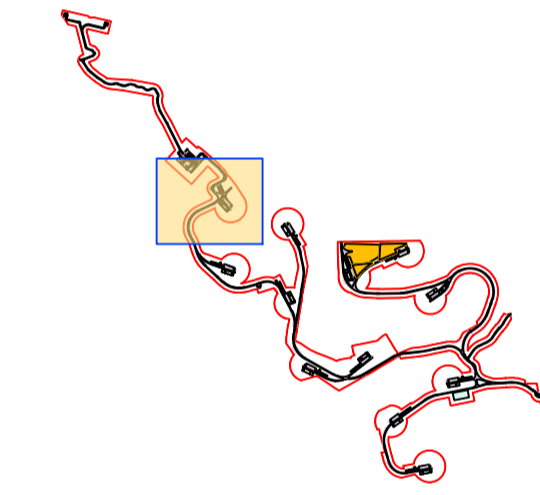
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

-  Planning Application Boundary
-  Turbine Hardstand
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  Existing Overhead 110KV line
-  Watercourse
-  Land Drain - Observed From Field Surveys
-  Watercourse 50m Buffer
-  Dirty Water Drain
-  Dirty Water Settlement Pond
-  Clean Water Interceptor Drain
-  Berm
-  Slope Direction
-  Existing Contour
-  Cut
-  Fill

KEY PLAN:

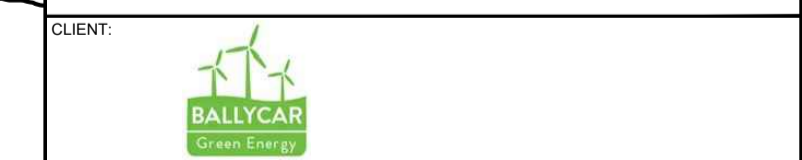


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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

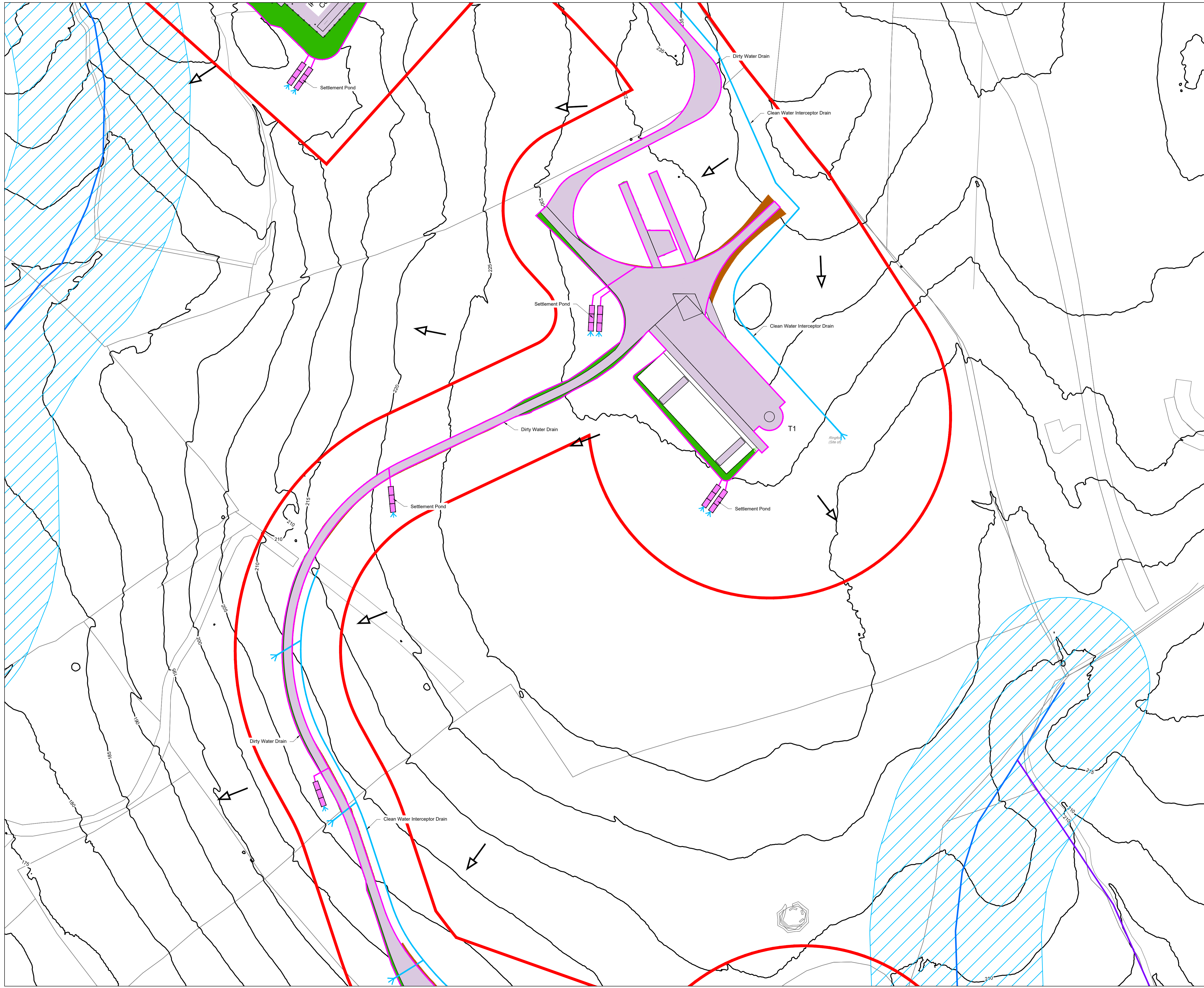
PROJECT: Ballycar Wind Farm

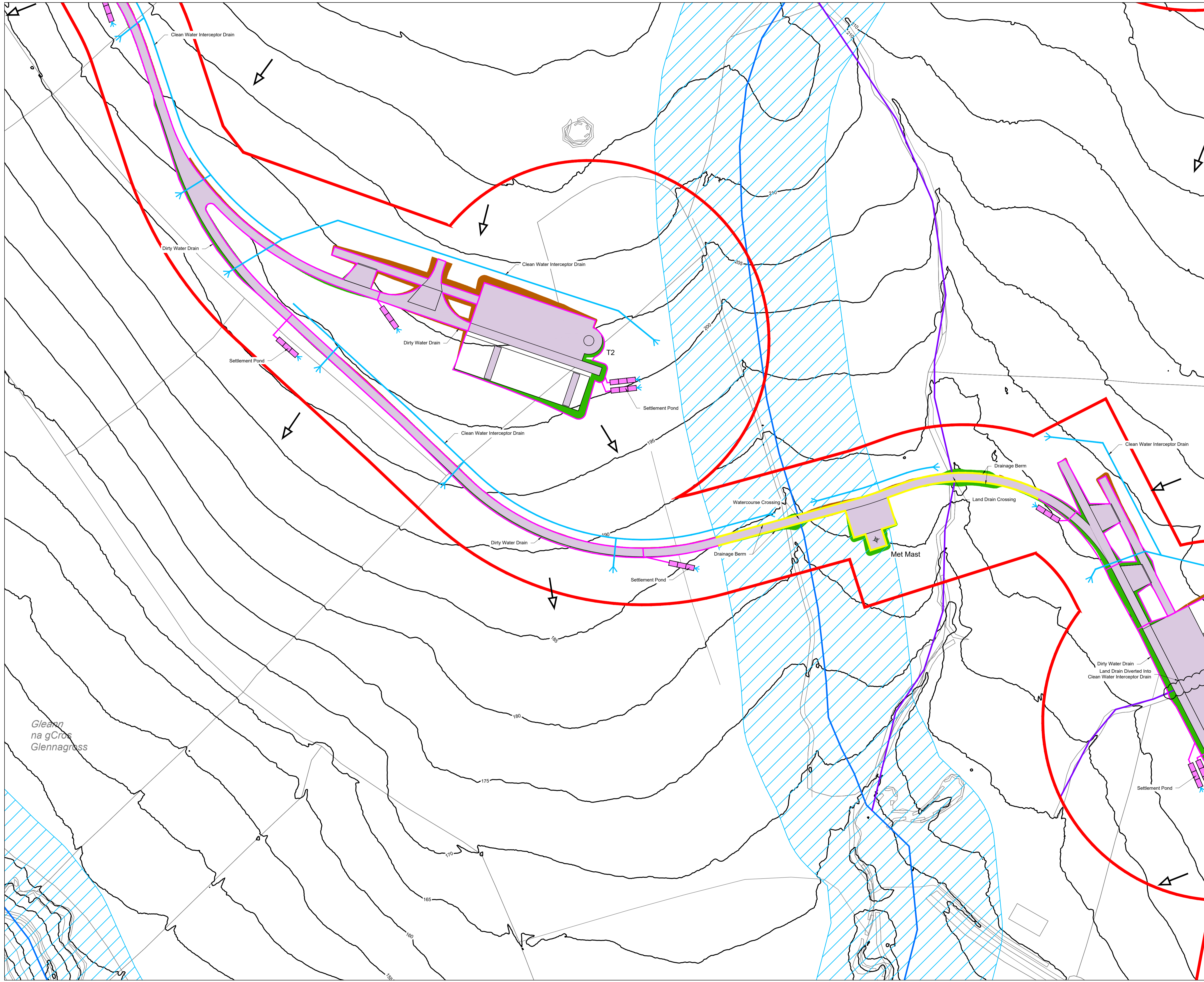
TITLE: Drainage Layout - Sheet 9



DRAWN:	CHECKED:	APPROVED:
JK	PC	OH
PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000
STATUS DESCRIPTION:	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
22156 - MWP - 09 - 00 - DR - C - 5006	P01



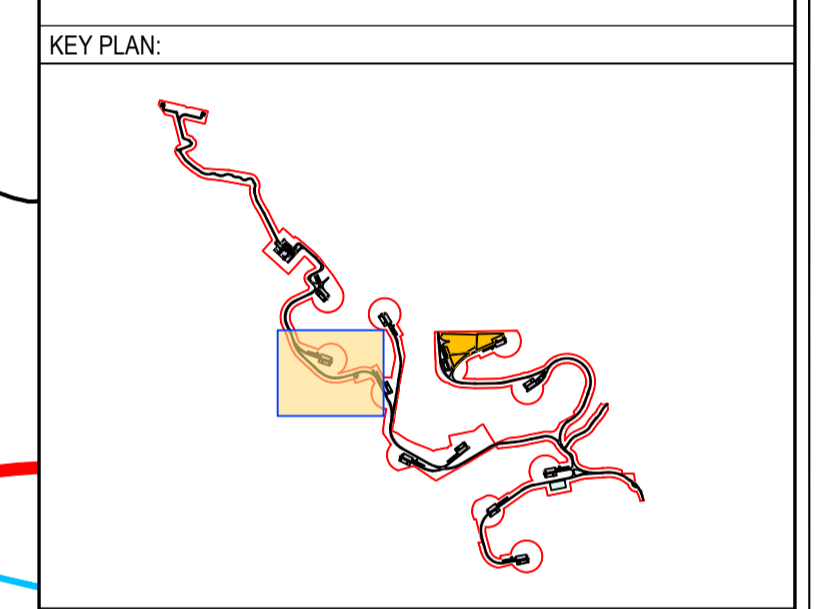


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110KV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dirty Water Drain
 - Dirty Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Slope Direction
 - Existing Contour
 - Cut
 - Fill



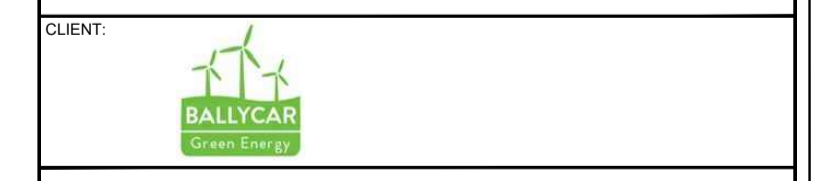
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 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
 Ballycar Wind Farm

TITLE:
 Drainage Layout - Sheet 8



DRAWN:	CHECKED:	APPROVED:
JK	PC	OH
PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000
STATUS DESCRIPTION:	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
22156 - MWP - 08 - 00 - DR - C - 5006	P01

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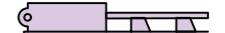
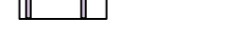

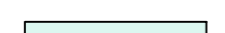
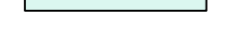








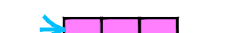


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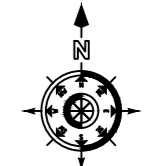
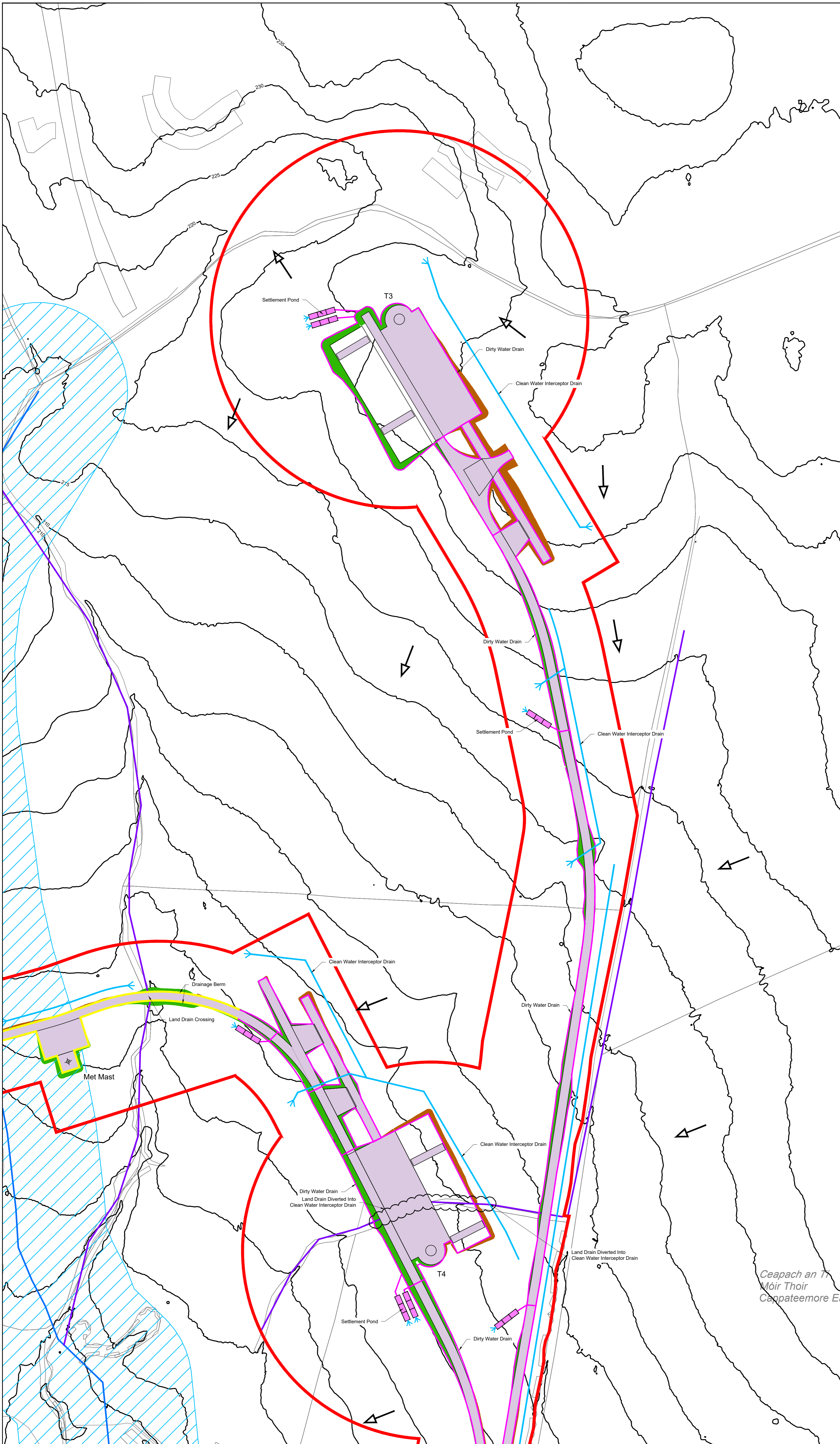
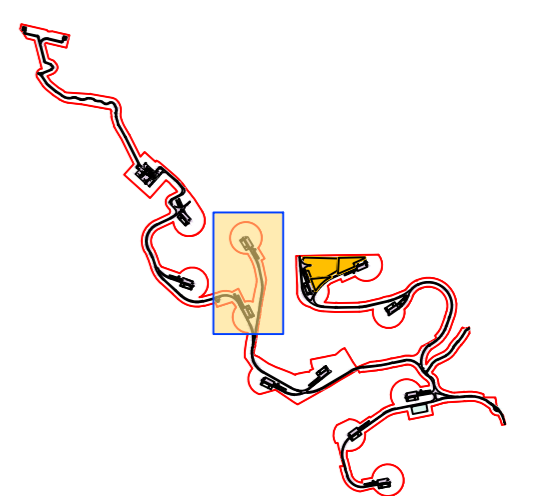
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

-  Planning Application Boundary
-  Turbine Hardstand
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  Existing Overhead 110kV line
-  Watercourse
-  Land Drain - Observed From Field Surveys
-  Watercourse 50m Buffer
-  Dirty Water Drain
-  Dirty Water Settlement Pond
-  Clean Water Interceptor Drain
-  Berm
-  Slope Direction
-  Existing Contour
-  Cut
-  Fill

KEY PLAN:



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

PD1	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Drainage Layout - Sheet 7



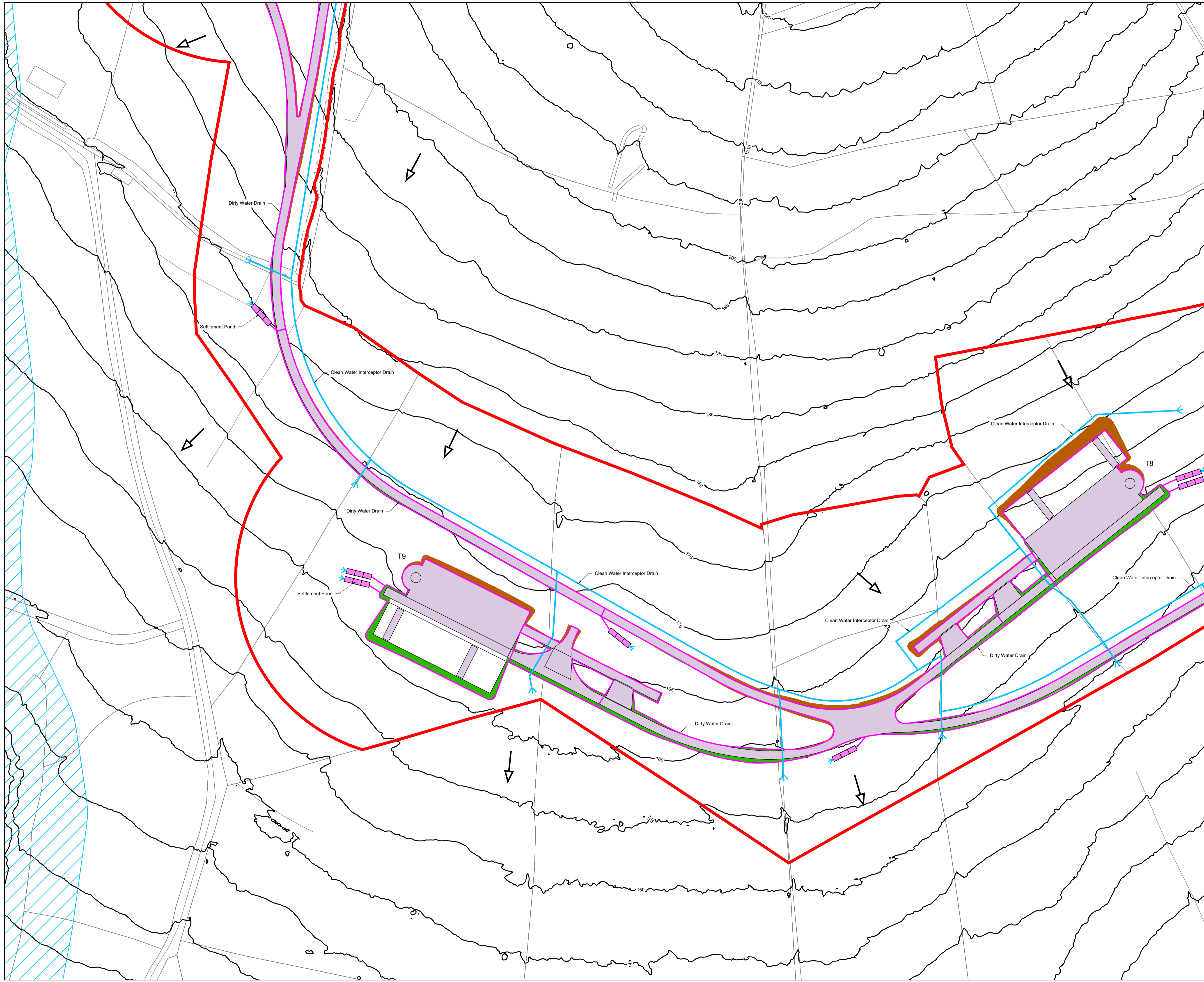
DRAWN:	CHECKED:	APPROVED:
JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 07 - 00 - DR - C - 5006	P01

*Ceapach an Trá
Móir Thoir
Cappateemore East*

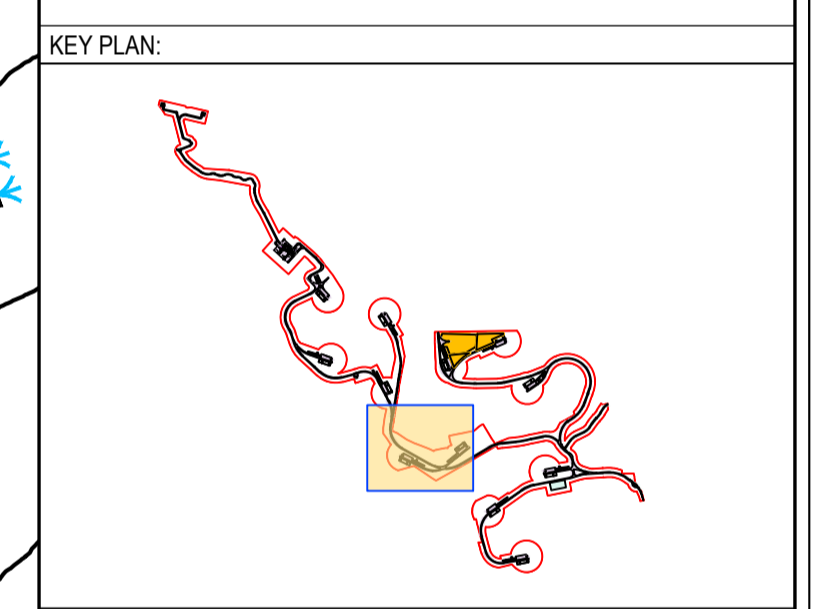


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110kV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dirty Water Drain
 - Dirty Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Slope Direction
 - Existing Contour
 - Cut
 - Fill

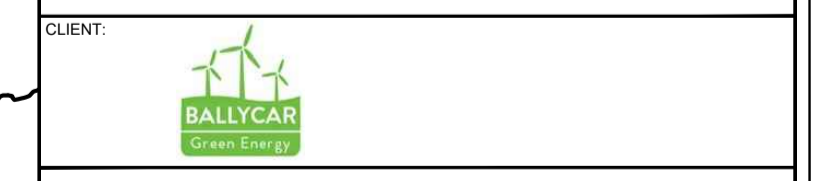


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 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Drainage Layout - Sheet 6



DRAWN:	CHECKED:	APPROVED:
JK	PC	OH
PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 1,000
STATUS DESCRIPTION:	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
22156 - MWP - 06 - 00 - DR - C - 5006	P01

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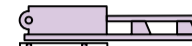

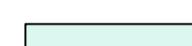









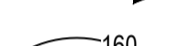


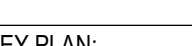
NOTES:

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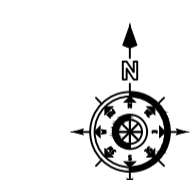
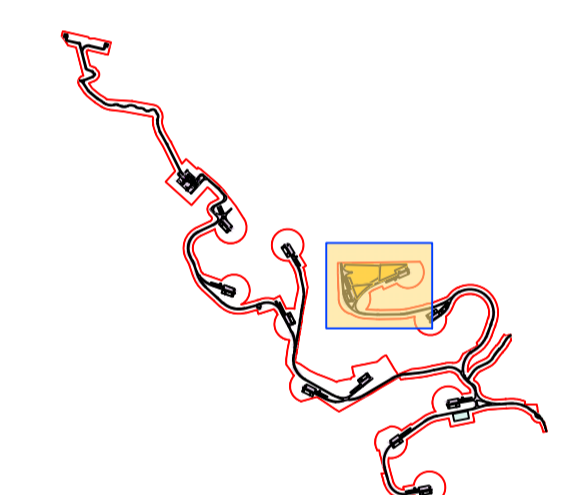
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

-  Planning Application Boundary
-  Turbine Hardstand
-  Access Track (5m Wide)
-  Temporary Access Track (5m Wide) / Temporary Site Compound
-  Borrow Pit / Deposition Area
-  Existing Overhead 110kV line
-  Watercourse
-  Land Drain - Observed From Field Surveys
-  Watercourse 50m Buffer
-  Dirty Water Drain
-  Dirty Water Settlement Pond
-  Clean Water Interceptor Drain
-  Berm
-  Slope Direction
-  Existing Contour
-  Cut
-  Fill

KEY PLAN:

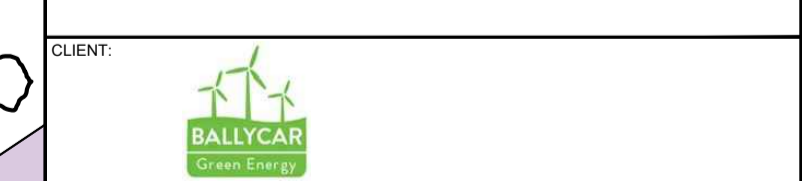


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CYAL50332198
OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

PO1	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

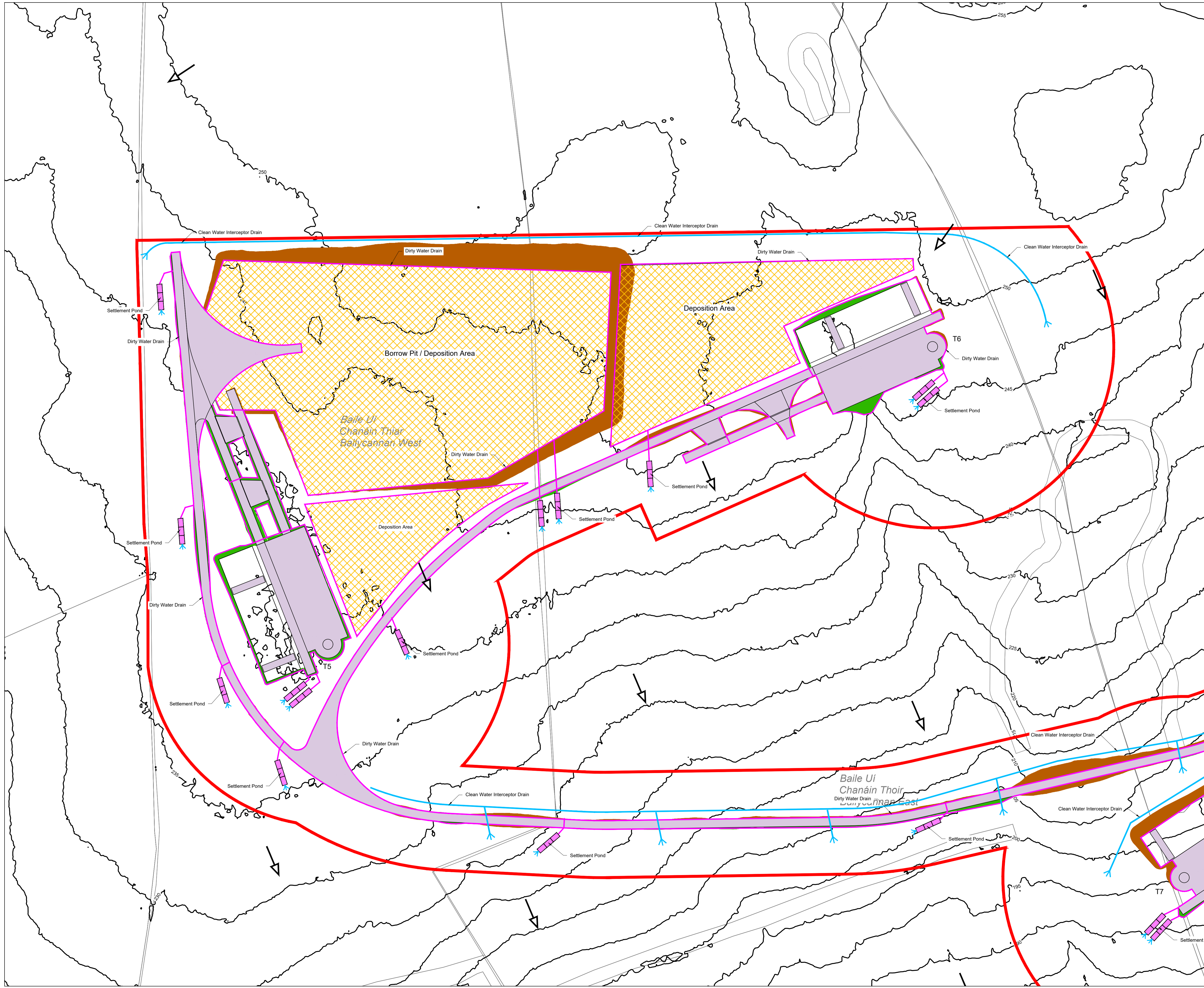
PROJECT: Ballycar Wind Farm

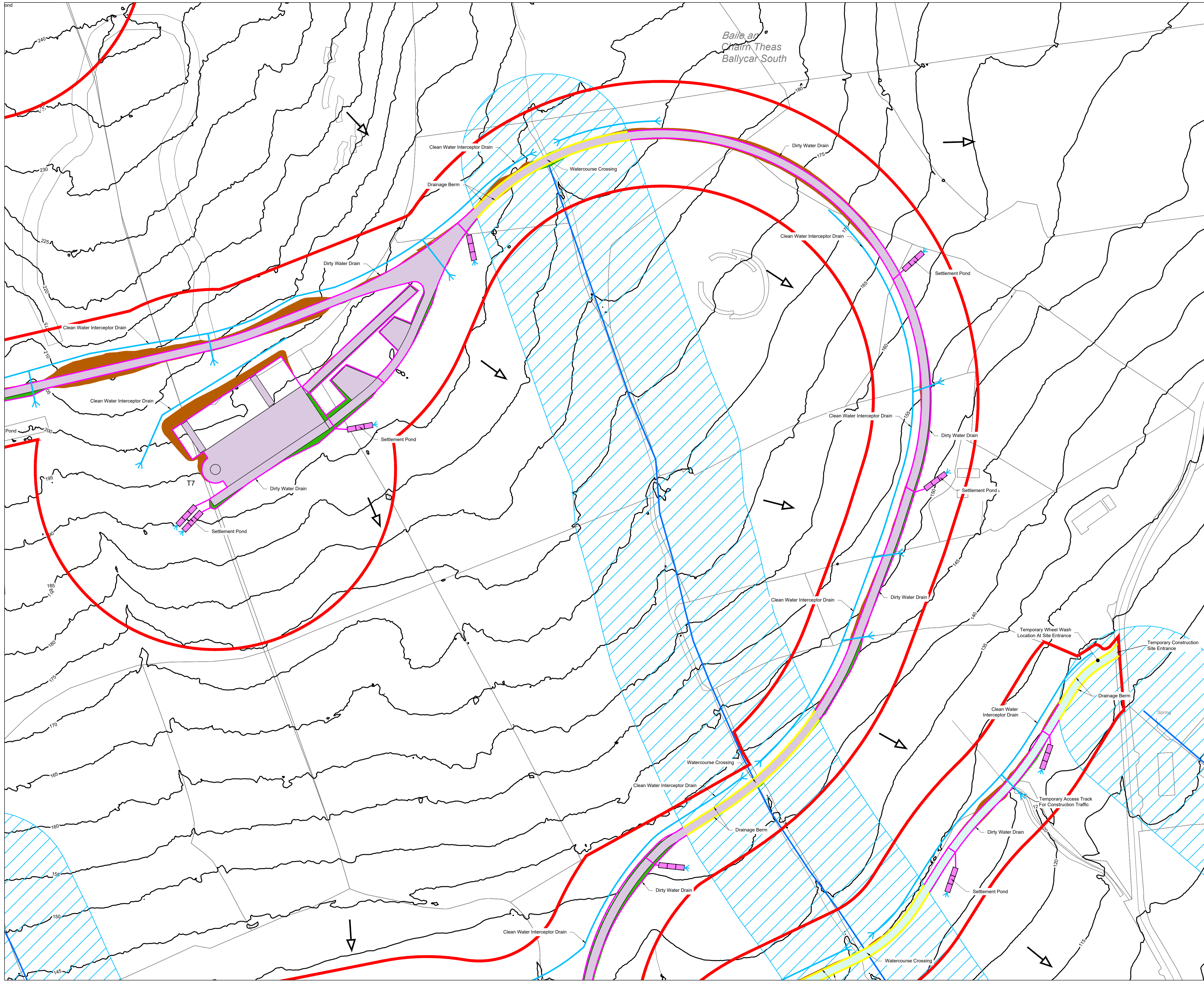
TITLE: Drainage Layout - Sheet 5



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 05 - 00 - DR - C - 5006	REV: P01
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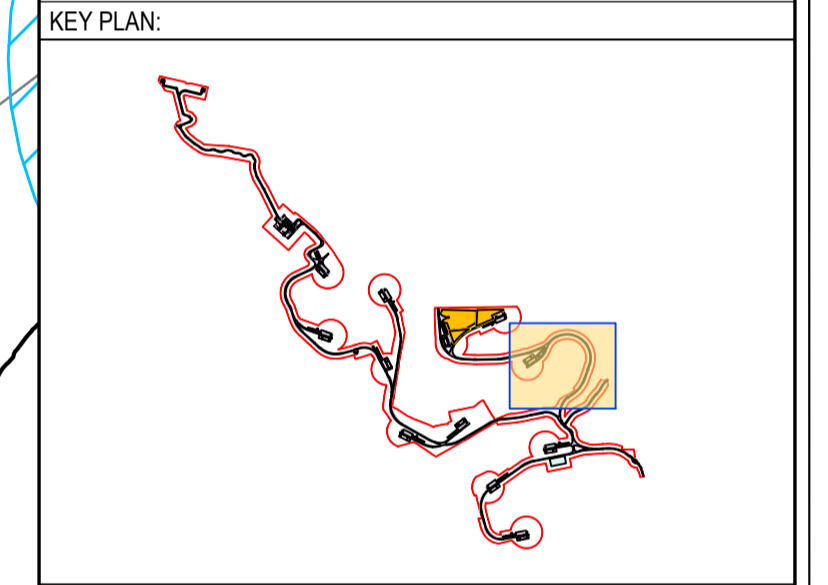


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110KV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dirty Water Drain
 - Dirty Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Slope Direction
 - Existing Contour
 - Cut
 - Fill



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Drainage Layout - Sheet 4				
CLIENT:				
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie				
DRAWN:	CHECKED:	APPROVED:		
JK	PC	PC		
PROJECT NUMBER:	DATE:	SCALE @ A1:		
22156	December 2023	1 : 1,000		
STATUS DESCRIPTION:	FOR INFORMATION		STATUS:	S2
DRAWING NUMBER:	22156 - MWP - 04 - 00 - DR - C - 5006	REV:	P01	

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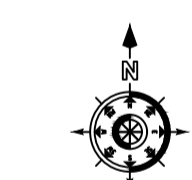
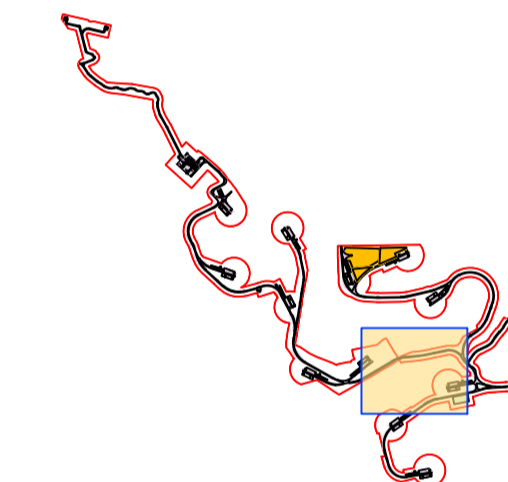
DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

LEGEND:

- Planning Application Boundary
- Turbine Hardstand
- Access Track (5m Wide)
- Temporary Access Track (5m Wide) / Temporary Site Compound
- Borrow Pit / Deposition Area
- Existing Overhead 110KV line
- Watercourse
- Land Drain - Observed From Field Surveys
- Watercourse 50m Buffer
- Dirty Water Drain
- Dirty Water Settlement Pond
- Clean Water Interceptor Drain
- Berm
- Slope Direction
- Existing Contour
- Cut
- Fill

KEY PLAN:



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C, 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Drainage Layout - Sheet 3

CLIENT: BALLYCAR Green Energy

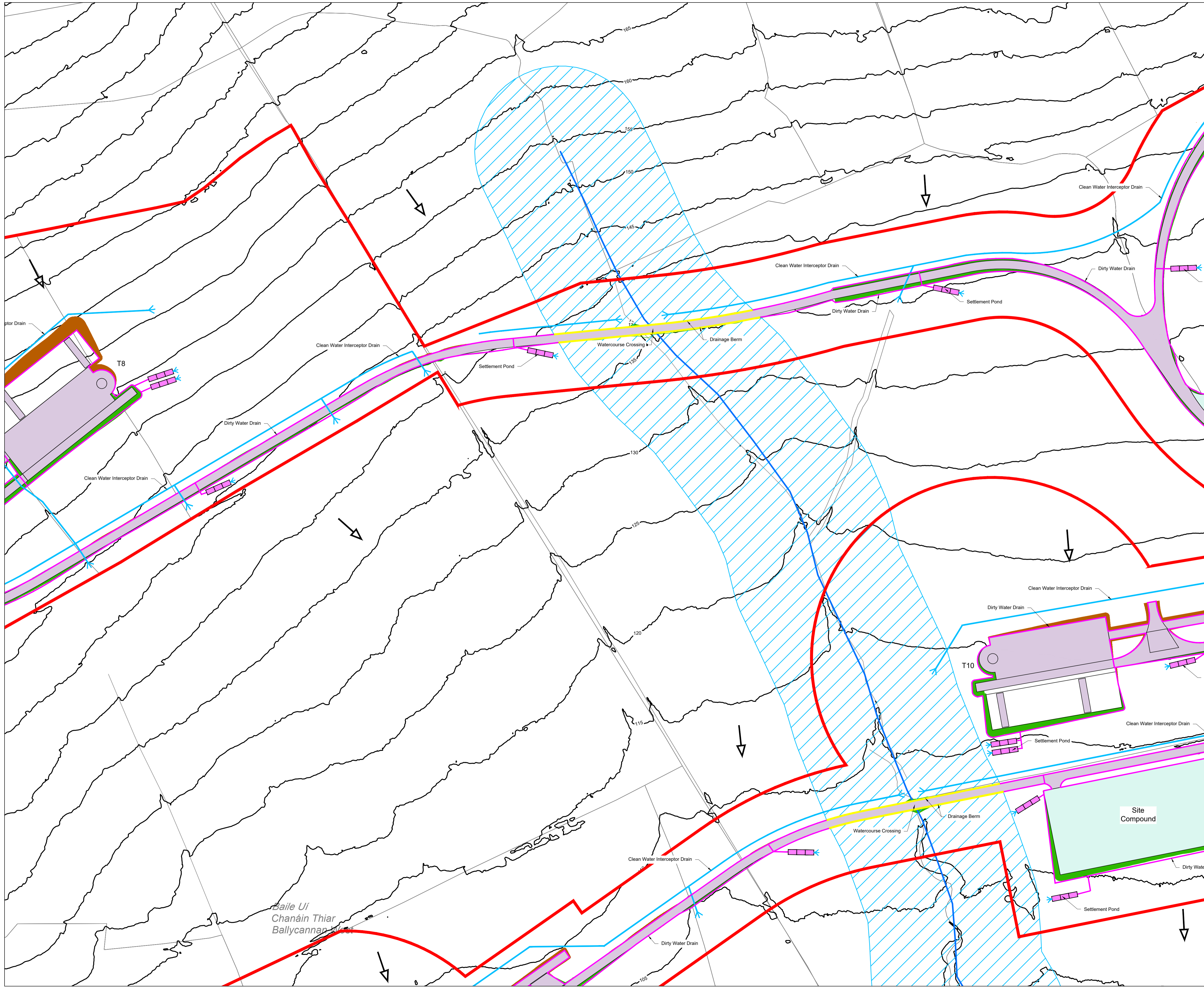


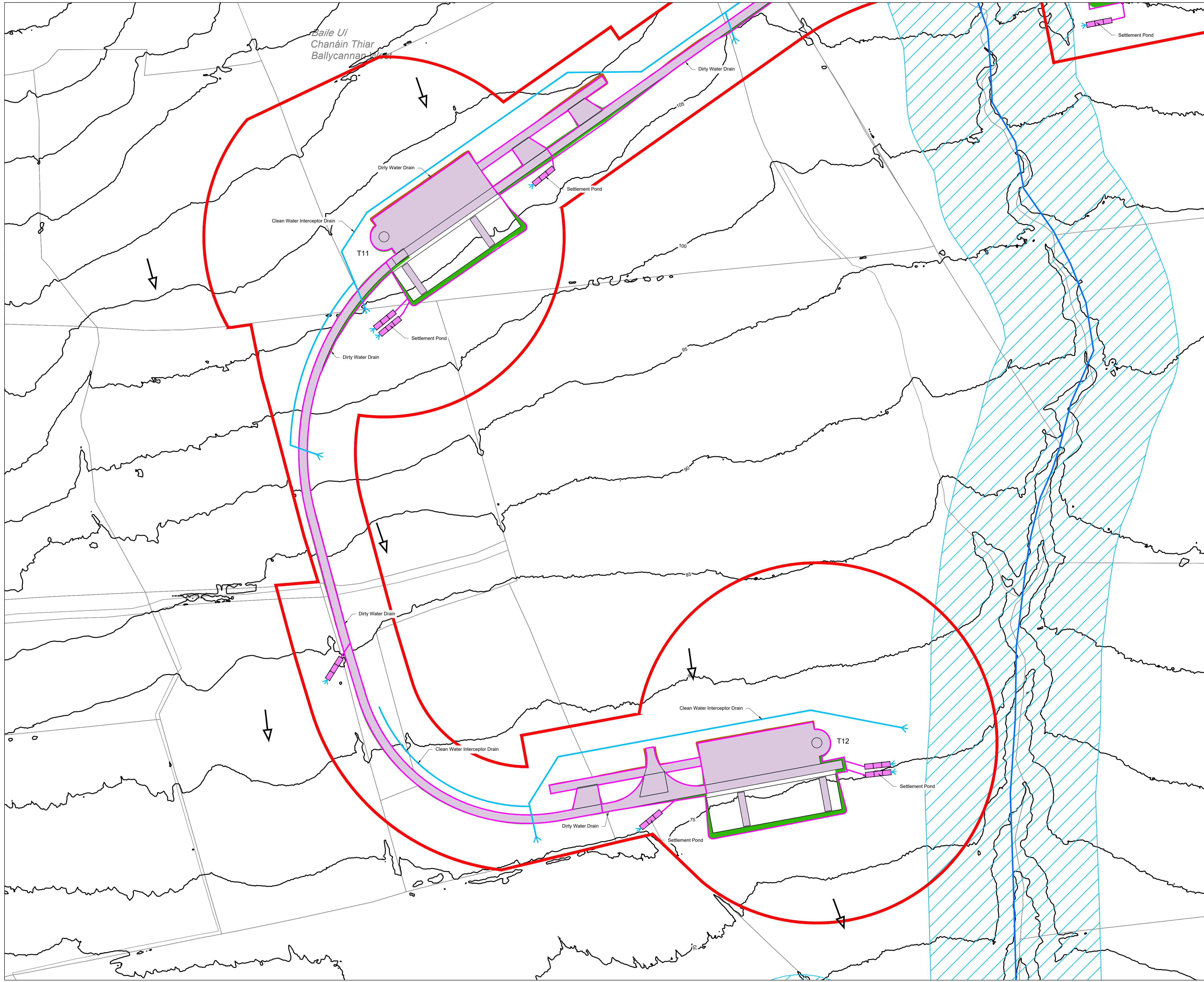
DRAWN: JK	CHECKED: PC	APPROVED: OH
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PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 1,000
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STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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DRAWING NUMBER: 22156 - MWP - 03 - 00 - DR - C - 5006	REV: P01
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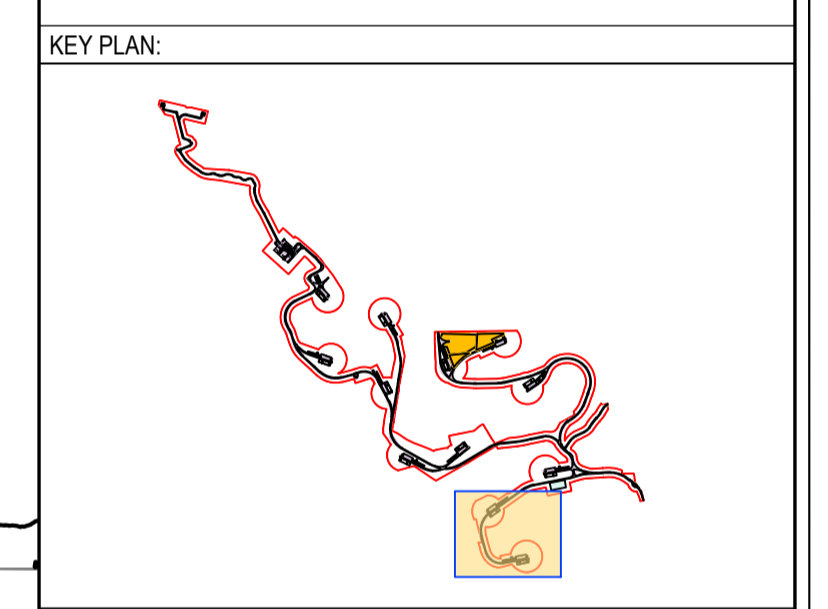


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

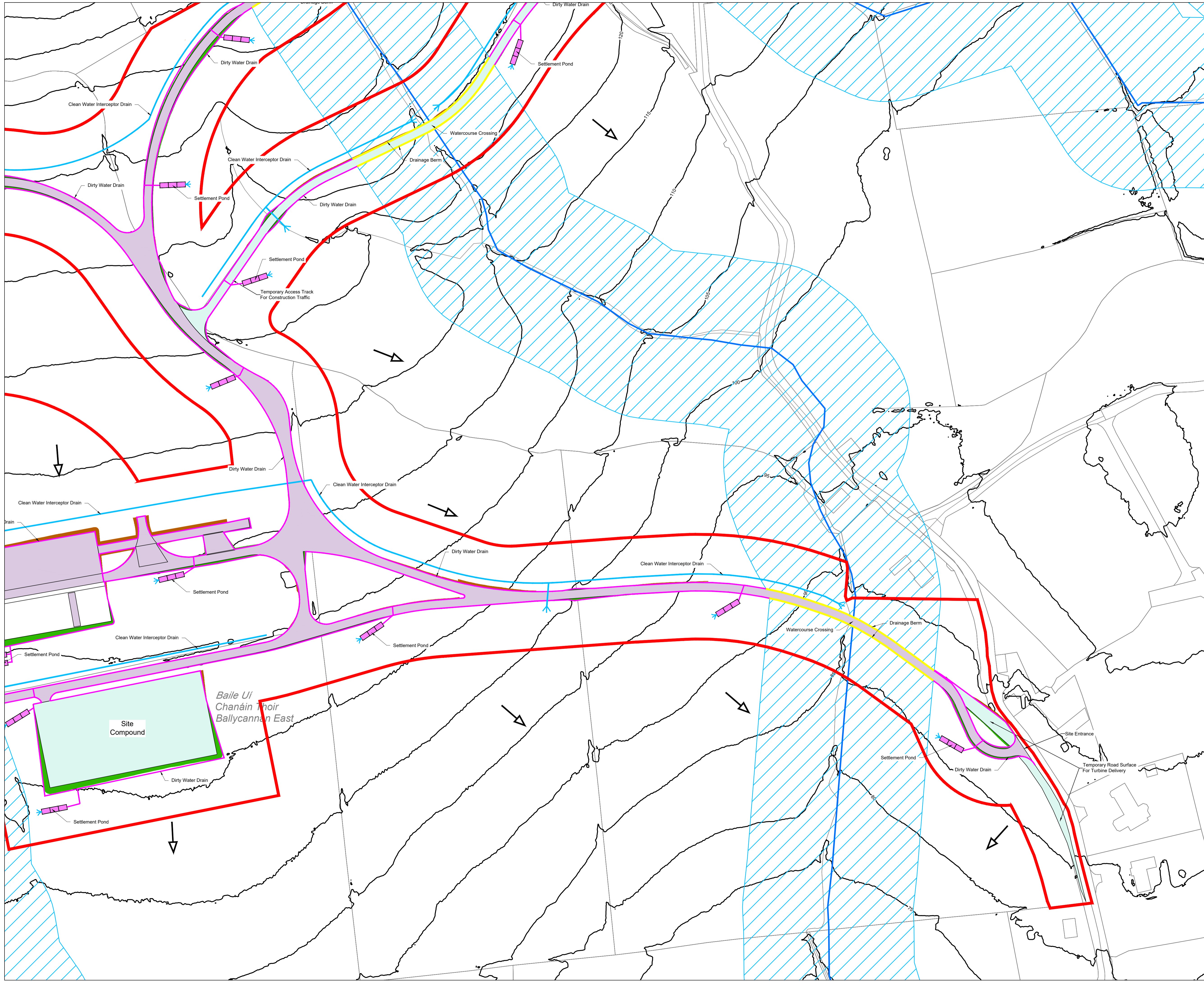
- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110kV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dirty Water Drain
 - Dirty Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Slope Direction
 - Existing Contour
 - Cut
 - Fill



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Drainage Layout - Sheet 2				
CLIENT: BALLYCAR Green Energy				
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK <small>mwp.ie</small>				
DRAWN:	CHECKED:	APPROVED:		
JK	PC	OH		
PROJECT NUMBER:	DATE:	SCALE @ A1:		
22156	December 2023	1 : 1,000		
STATUS DESCRIPTION:	FOR INFORMATION		STATUS:	S2
DRAWING NUMBER:	22156 - MWP - 02 - 00 - DR - C - 5006			REV: P01

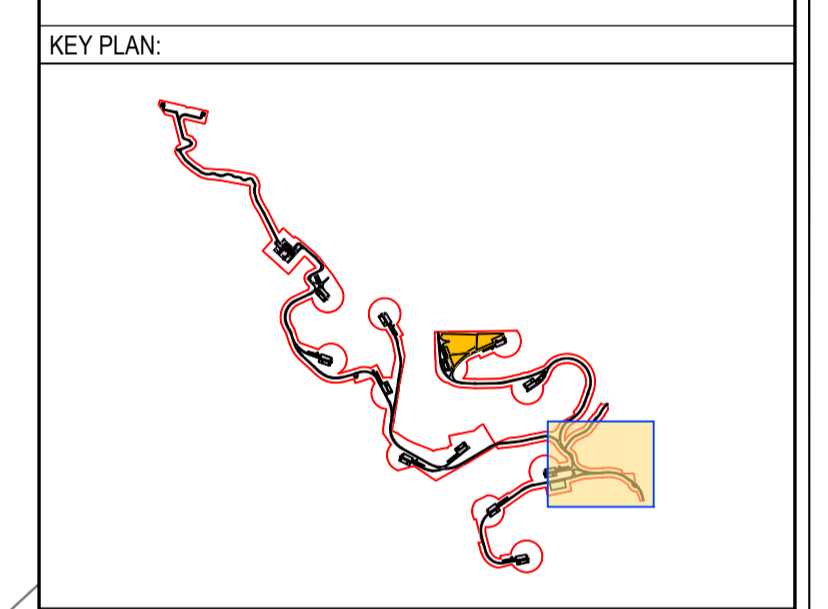


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DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

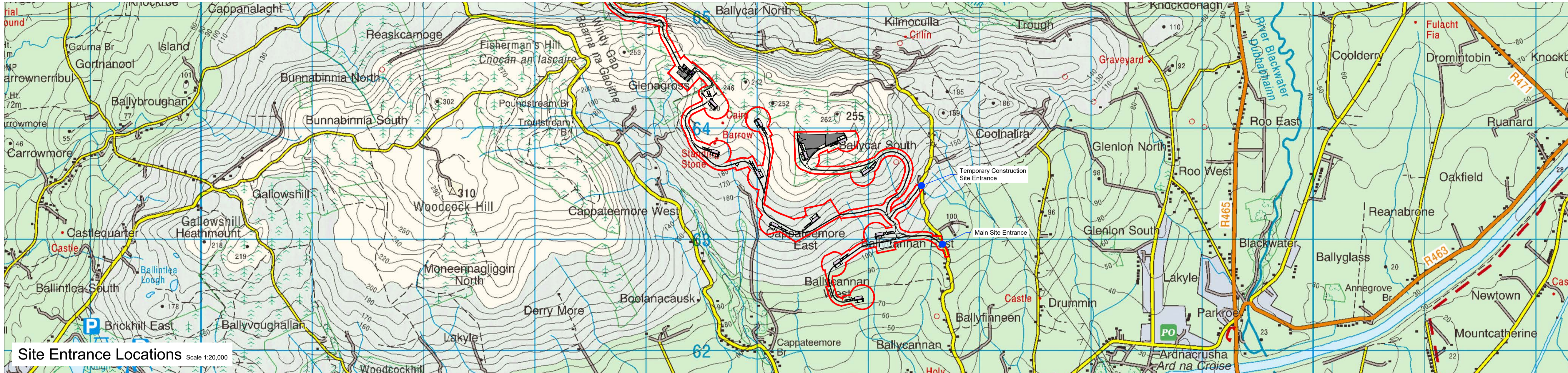
- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Temporary Access Track (5m Wide) / Temporary Site Compound
 - Borrow Pit / Deposition Area
 - Existing Overhead 110kV line
 - Watercourse
 - Land Drain - Observed From Field Surveys
 - Watercourse 50m Buffer
 - Dirty Water Drain
 - Dirty Water Settlement Pond
 - Clean Water Interceptor Drain
 - Berm
 - Slope Direction
 - Existing Contour
 - Cut
 - Fill



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 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Drainage Layout - Sheet 1				
CLIENT:				
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie				
DRAWN:	CHECKED:	APPROVED:		
JK	PC	OH		
PROJECT NUMBER:	DATE:	SCALE @ A1:		
22156	December 2023	1 : 1,000		
STATUS DESCRIPTION:	FOR INFORMATION		STATUS:	S2
DRAWING NUMBER:	22156 - MWP - 01 - 00 - DR - C - 5006			REV: P01



Site Entrance Locations Scale 1:20,000

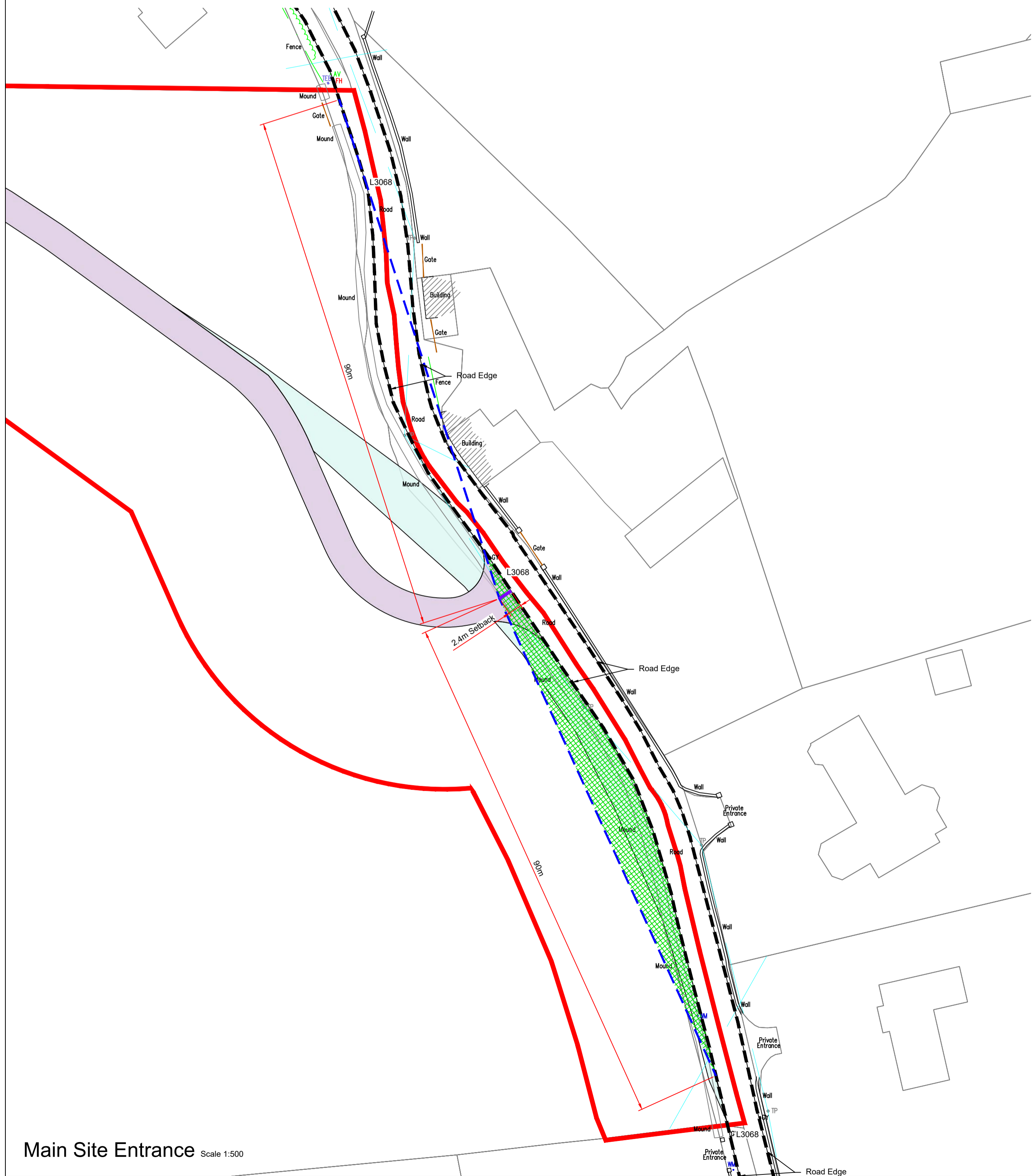
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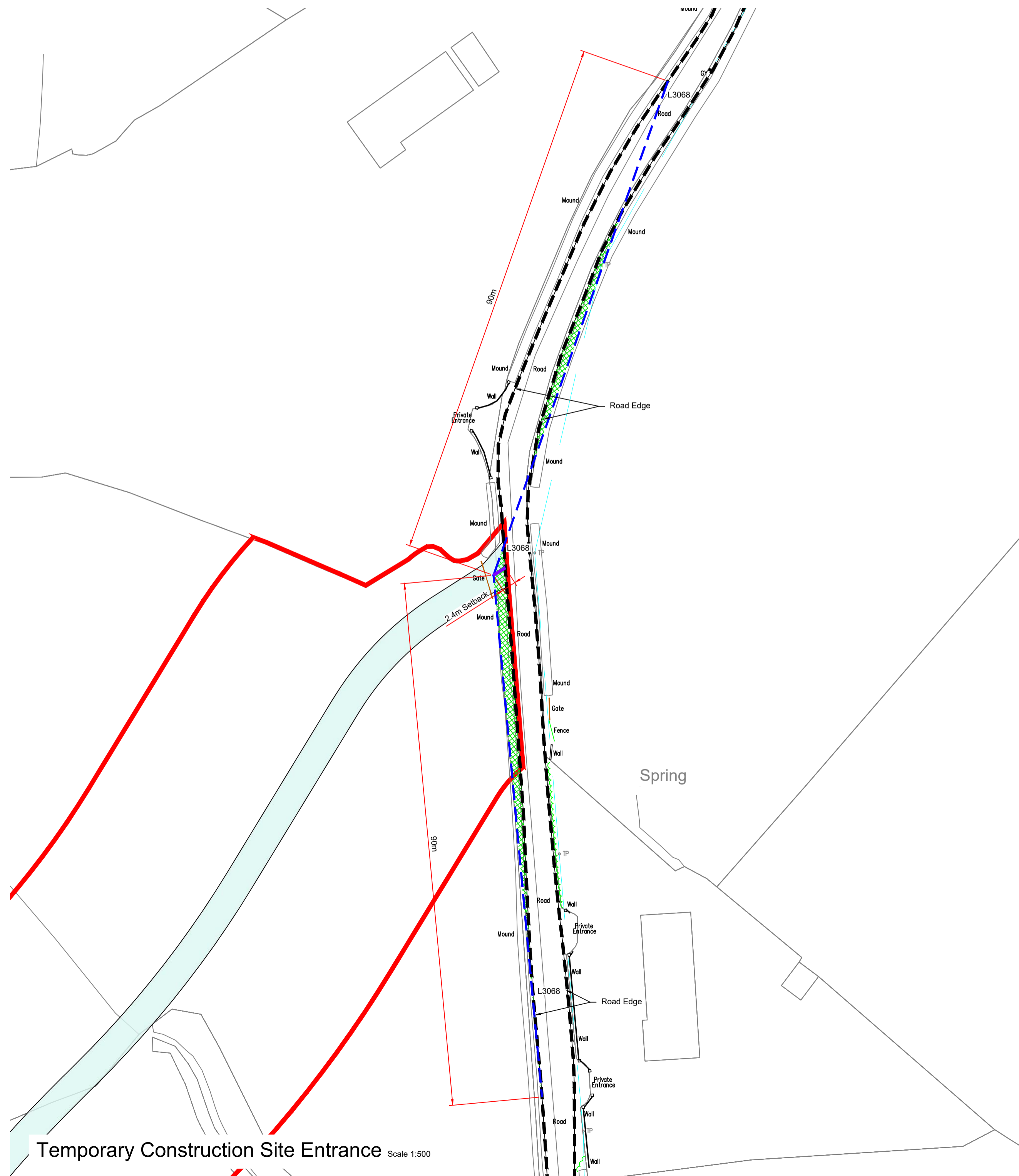
LEGEND:

	Planning Application Boundary
	Existing Road Edge
	"Set Back" Distance = 2.4m
	Sight Line
	Visibility Clearance Required - Clear Sight Visibility To Be Maintained
	Access Track (5m Wide)

DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet



Main Site Entrance Scale 1:500



Temporary Construction Site Entrance Scale 1:500



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OSI SHEET NO: 4622-A, 4622-C, 4622-B, 4563-C,
4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Site Access Layout and Sight Distances Sheet 1



DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2

DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5007	REV: P01
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LEGEND:

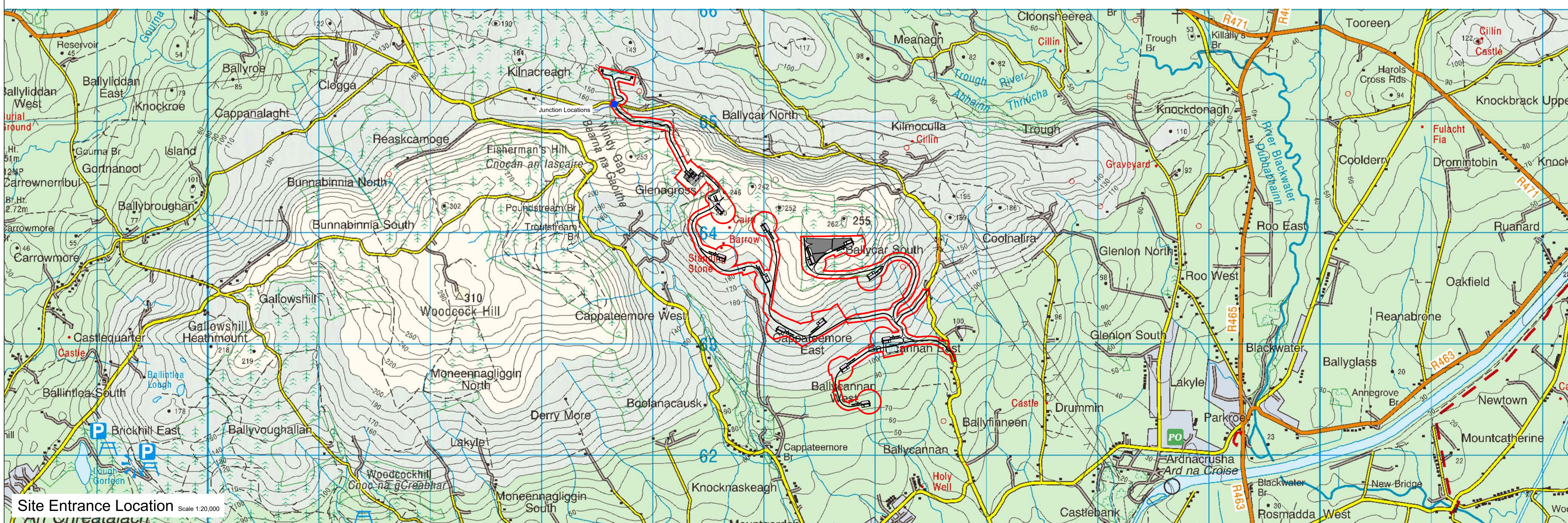
- Planning Application Boundary
- - - Existing Road Edge
- "Set Back" Distance = 2.4m
- - - Sight Line
- ▨ Visibility Clearance Required - Clear Sight Visibility To Be Maintained
- Access Track (5m Wide)

DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet



Sight Line Distances Scale 1:250

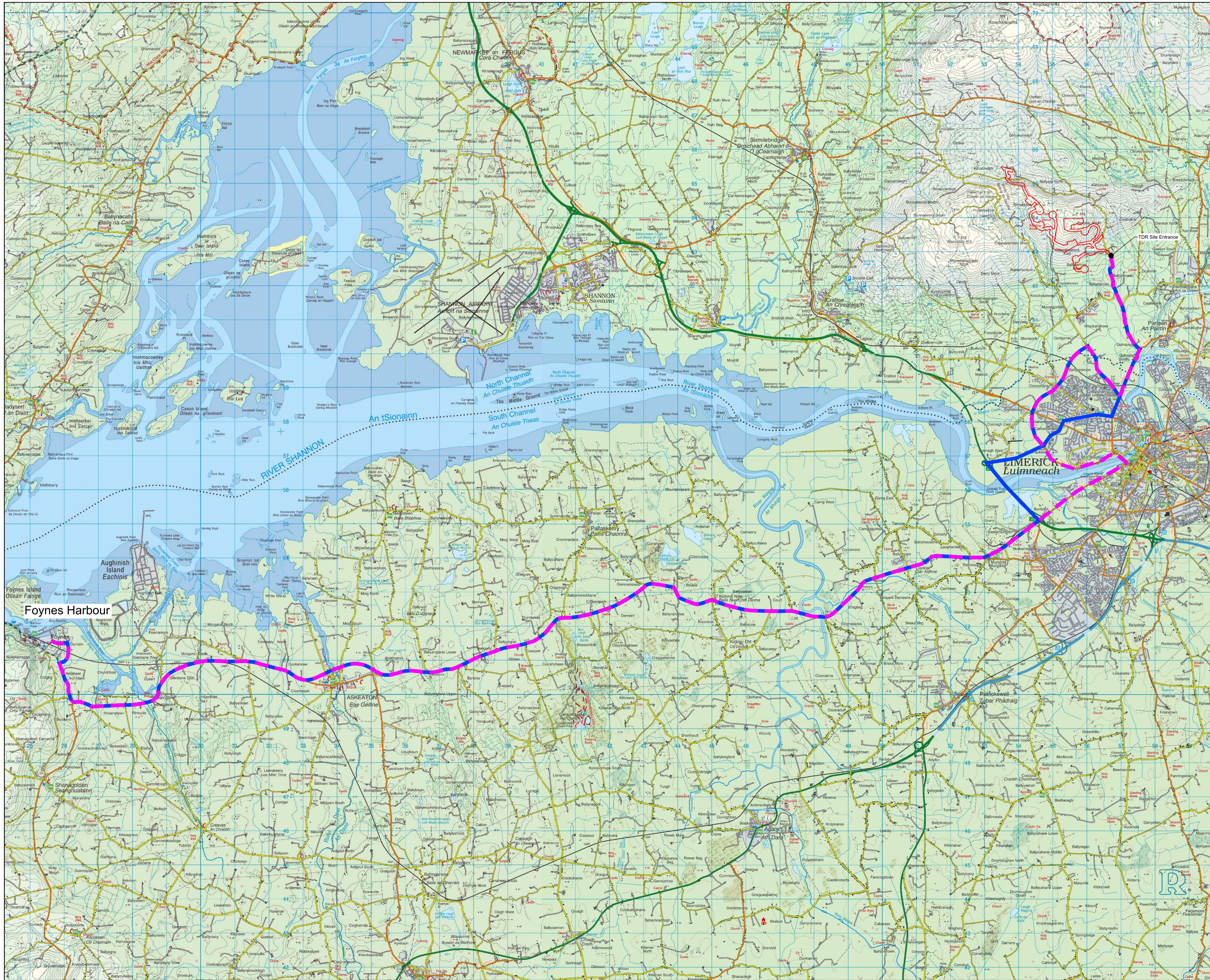


Site Entrance Location Scale 1:20,000



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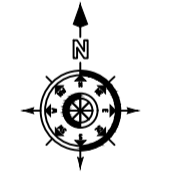
PO1 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY
PROJECT: Ballycar Wind Farm			
TITLE: Site Access Layout and Sight Distances Sheet 2			
CLIENT:			
DRAWN: JK			
CHECKED: PC			
APPROVED: OH			
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown	
STATUS DESCRIPTION: FOR INFORMATION			STATUS: S2
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5008			REV: P01



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- LEGEND:
- Planning Application Boundary
 - Turbine Blade Delivery Route
 - - - Tower Section and Oversize Component Delivery Route

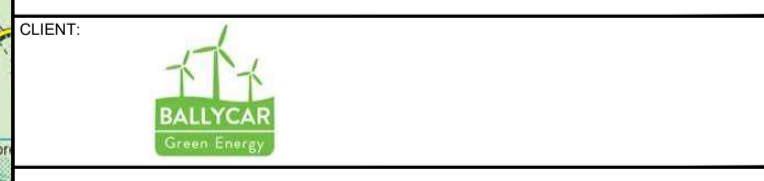


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 OSI DISCOVERY TILE NO: 1214, 1216, 1414 & 1416

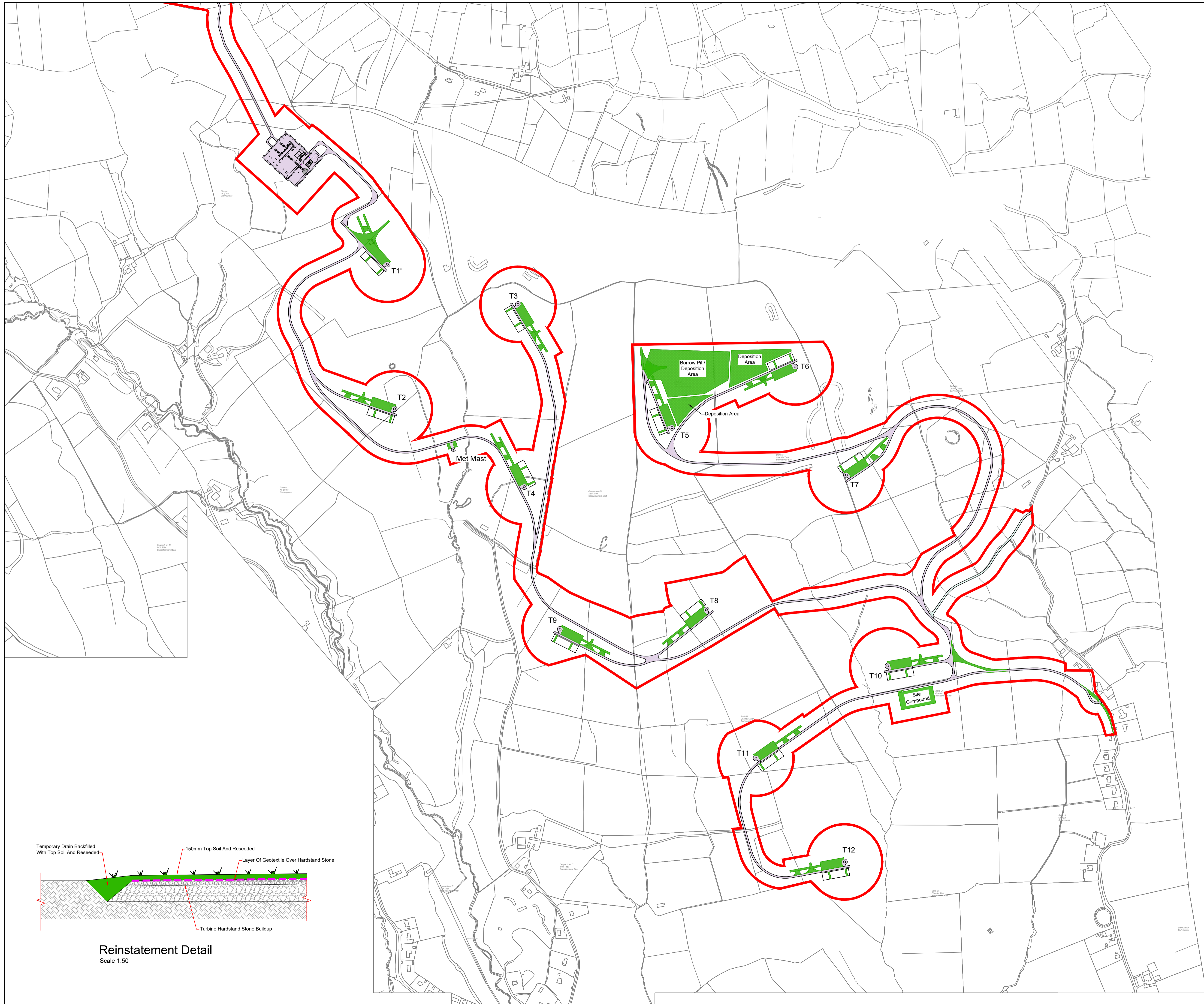
P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Turbine Delivery Route



DRAWN:	JK	CHECKED:	PC	APPROVED:	OH
PROJECT NUMBER:	22156	DATE:	December 2023	SCALE @:	1 : 50,000
STATUS DESCRIPTION:	FOR INFORMATION			STATUS:	S2
DRAWING NUMBER:	22156 - MWP - 00 - 00 - DR - C - 5009			REV:	P01

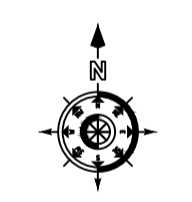


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 4. DRAWINGS ARE NOT TO BE SCALED.
 5. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.
 6. STONE SURFACE TO REMAIN FOR THE DURATION OF THE DEVELOPMENT
 7. AREA TO BE REINSTATED WITH EXCESS SPOIL MATERIAL, COVERED WITH TOPSOIL AND RESEEDED.

- LEGEND:
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track
 - Temporary Access Track
 - Area To Be Revegetated

DRAWING REFERENCE:
 22569-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

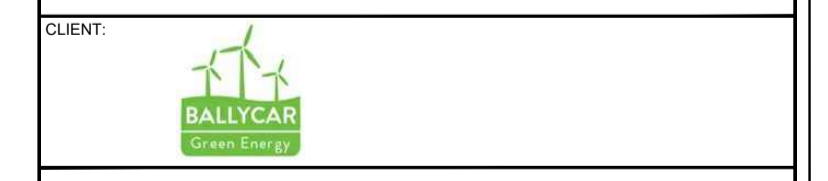


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 4562-D, 4621-B, 4562-C, 4562-A & 4562

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

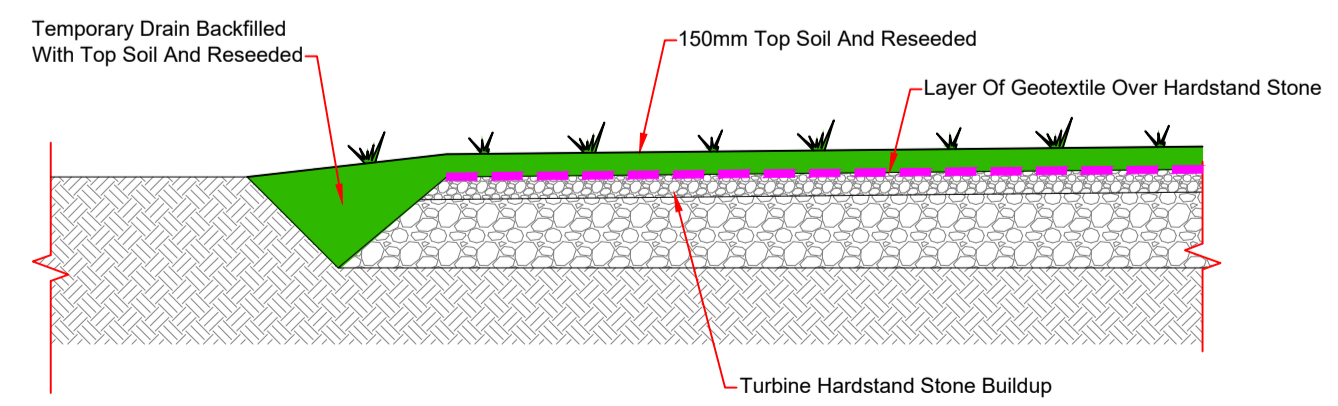
PROJECT: Ballycar Wind Farm

TITLE: Revegetation of Temporary Works Areas



DRAWN:	CHECKED:	APPROVED:
JK	PC	OH
PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	1 : 5,000
STATUS DESCRIPTION:	STATUS:	
FOR INFORMATION	S2	

DRAWING NUMBER:	REV:
22156 - MWP - 00 - 00 - DR - C - 5010	P01

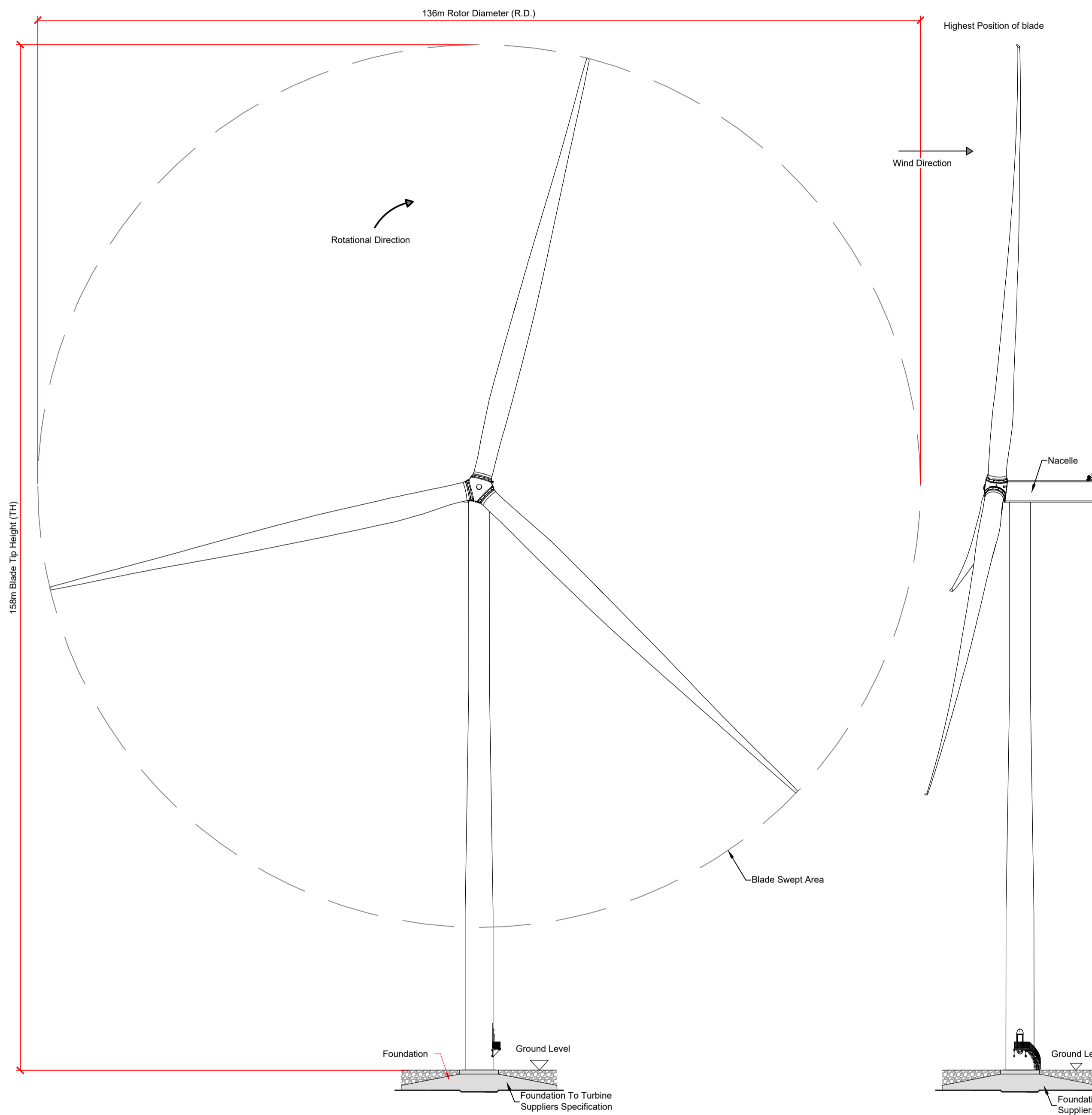


Reinstatement Detail
 Scale 1:50

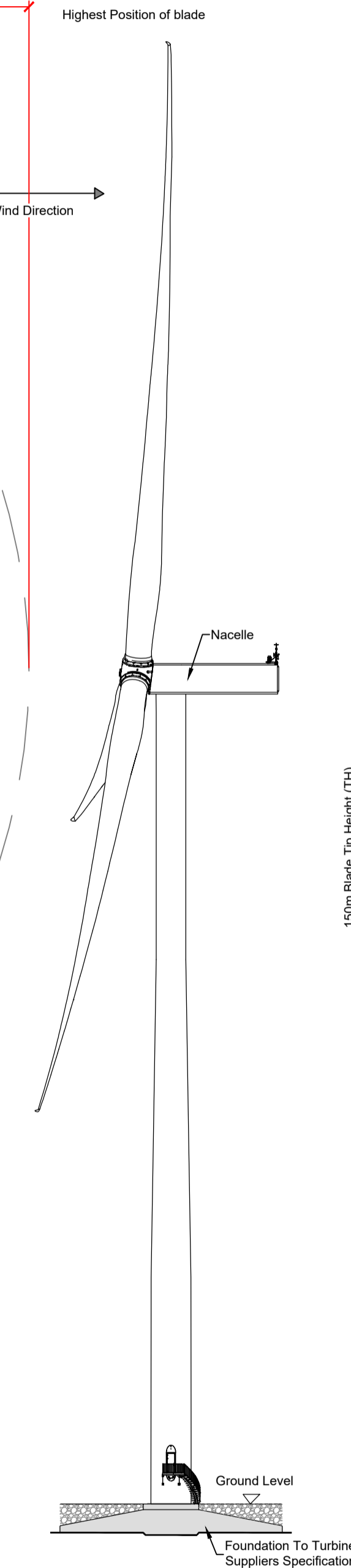
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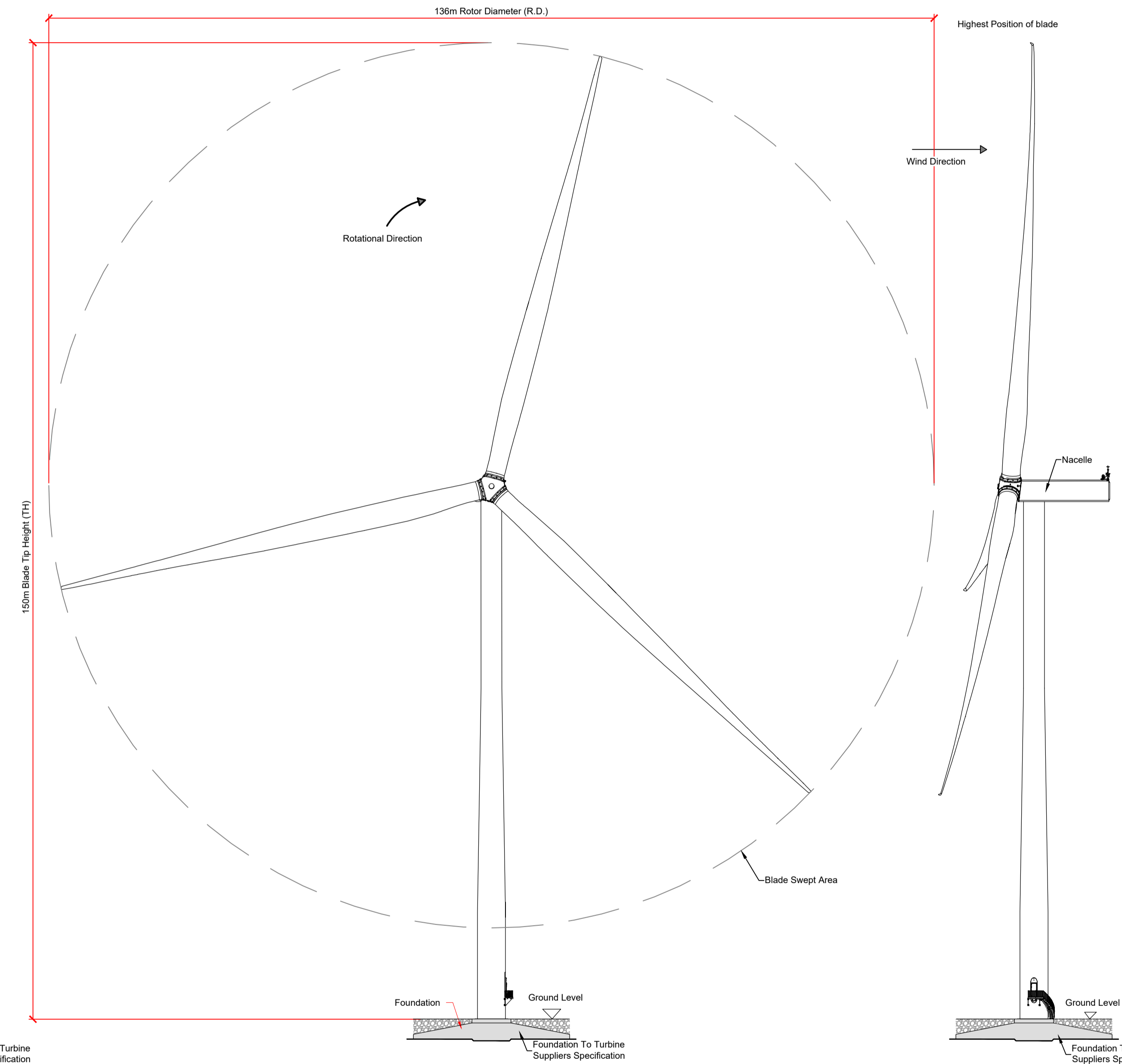
DRAWING REFERENCE:
 22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet



T1 to T9, T11 and T12
 Turbine Front Elevation
 Scale 1:500



T1 to T9, T11 and T12 Side
 Elevation
 Scale 1:500



T10
 Front Elevation
 Scale 1:500

T10
 Side Elevation
 Scale 1:500

PO1 08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY APP

PROJECT: Ballycar Wind Farm

TITLE: Turbine Elevations Details

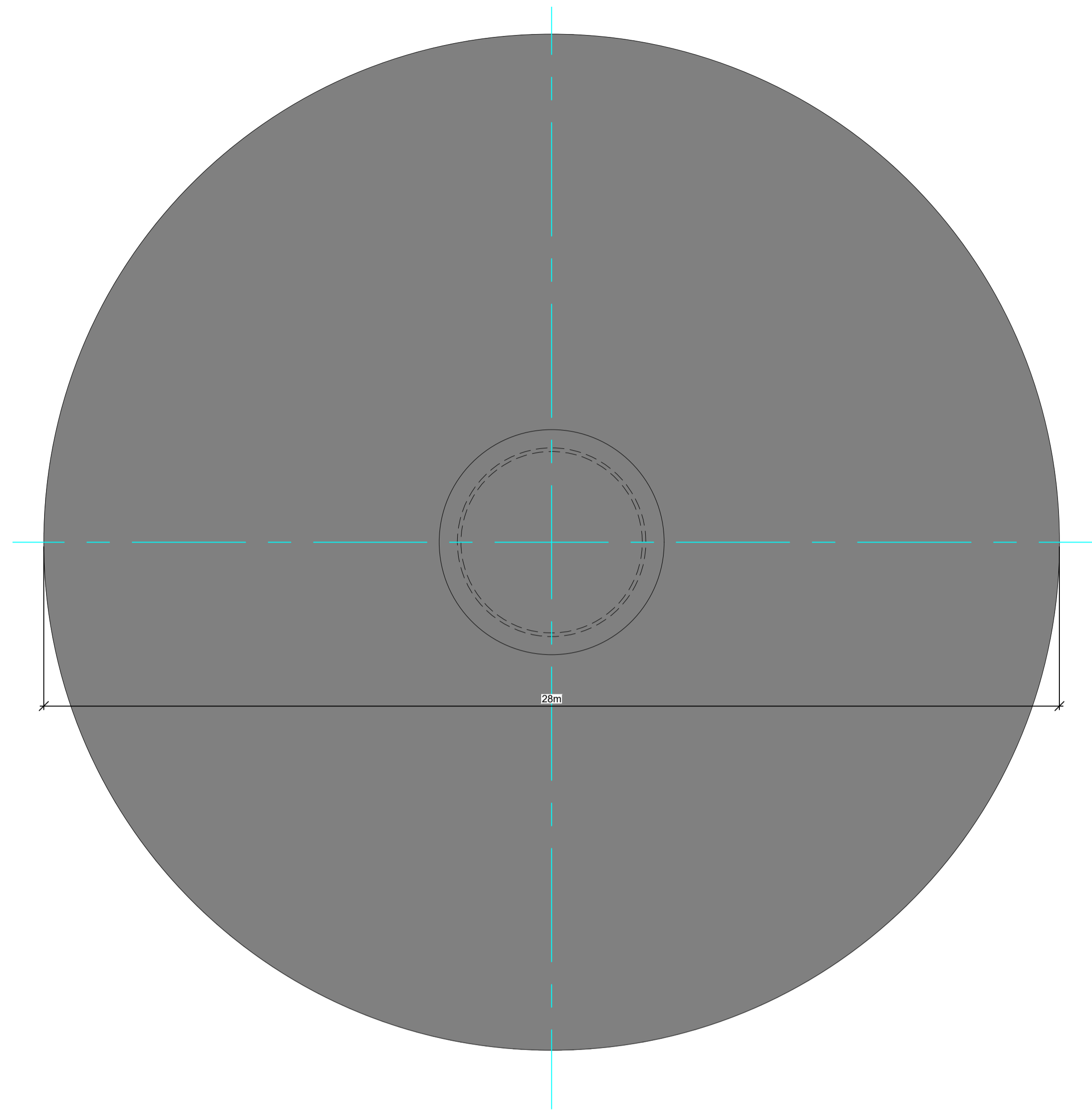


DRAWN: JK	CHECKED: PC	APPROVED: OH
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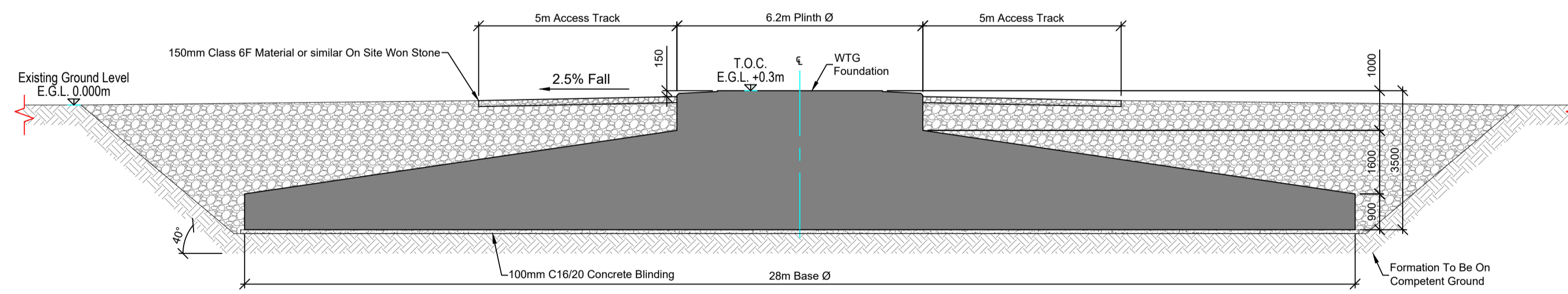
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown
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STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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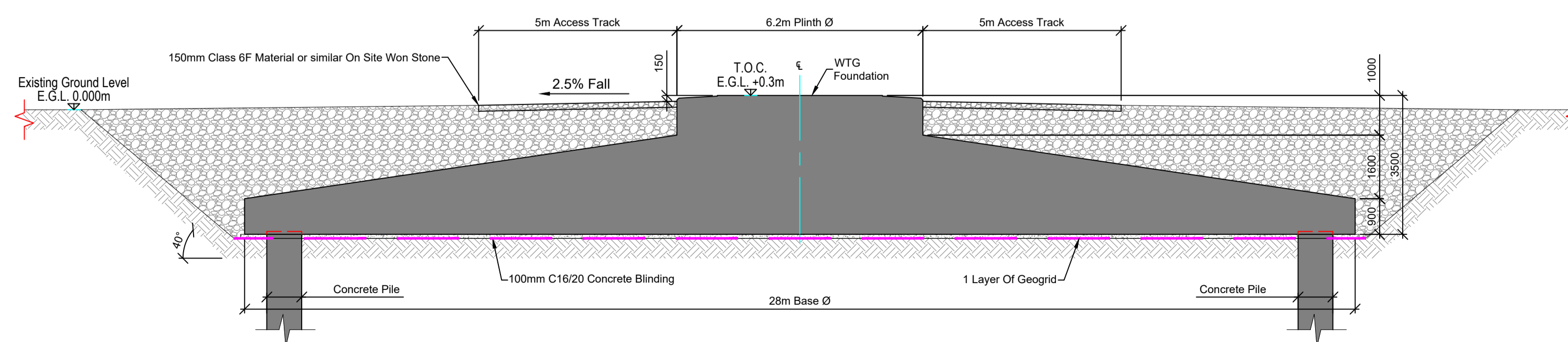
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5401	REV: P01
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Plan View Of Turbine Foundation Scale 1:100



Turbine Foundation Detail Scale 1:100



Piled Turbine Foundation Detail Scale 1:100

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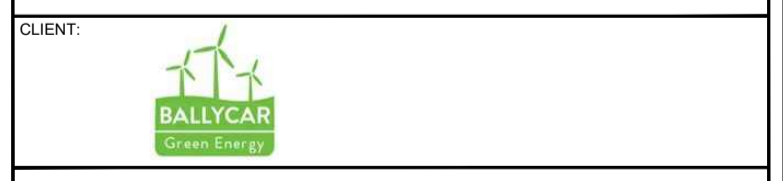
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 - ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.
 - SITE LAYOUT BASED ON VESTAS V136 TURBINE SPECIFICATION. BLADE TIP HEIGHT = 158M (T10 IS 150M), HUB HEIGHT = 90M AND BLADE LENGTH = 68M.

DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
Ballycar Wind Farm

TITLE:
Turbine Foundation Details



DRAWN:	JK	CHECKED:	PC	APPROVED:	OH
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PROJECT NUMBER:	22156	DATE:	December 2023	SCALE @ A1:	As Shown
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STATUS DESCRIPTION:	FOR INFORMATION	STATUS:	S2
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DRAWING NUMBER:	22156 - MWP - 00 - 00 - DR - C - 5402	REV:	P01
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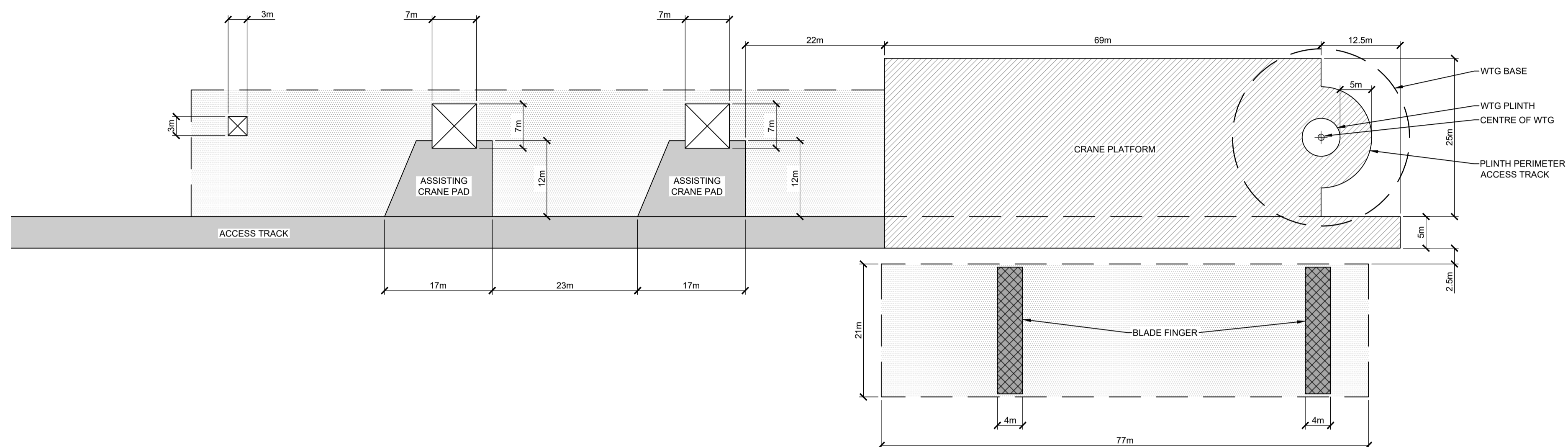
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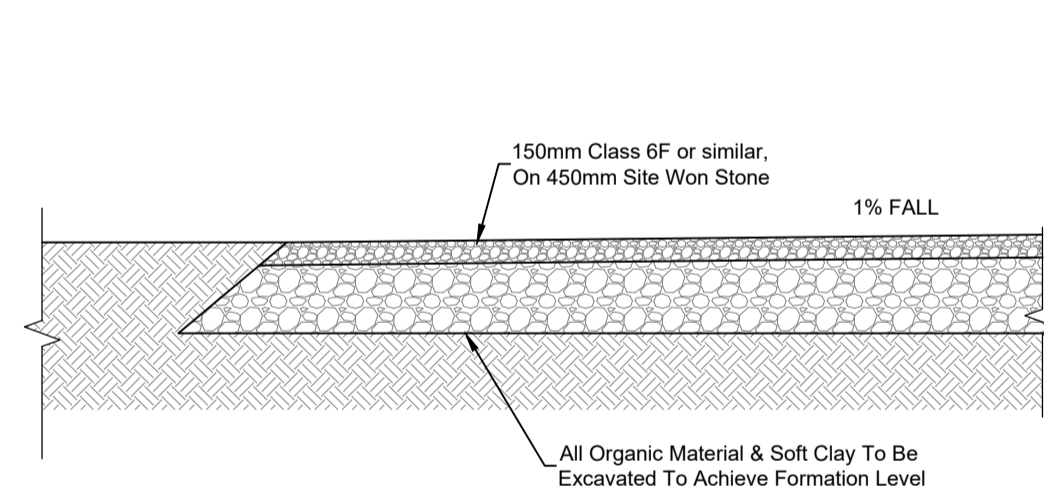
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DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet



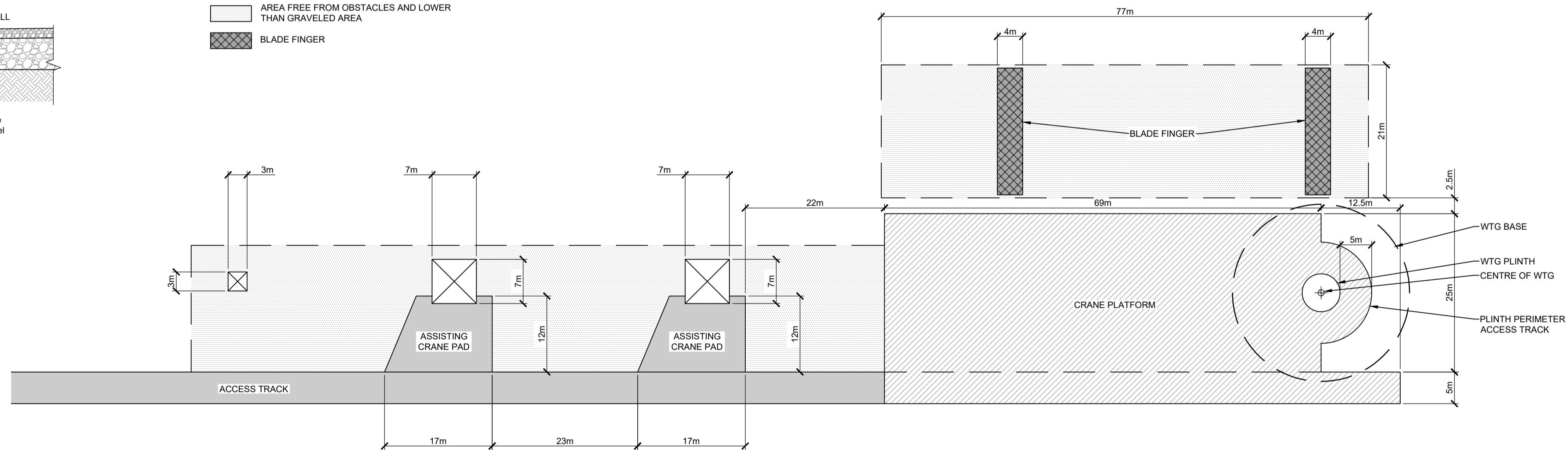
Hardstand Layout (Type 1) All Turbine Except T4, T7 & T8 Scale 1:500



Hardstand Detail Scale 1:50

HARDSTAND AREA LEGEND:

[Pattern]	ACCESS TRACK/ASSISTING CRANE PAD
[Pattern]	CRANE PLATFORM
[Pattern]	AREA FREE FROM OBSTACLES AND LOWER THAN GRAVELED AREA
[Pattern]	BLADE FINGER

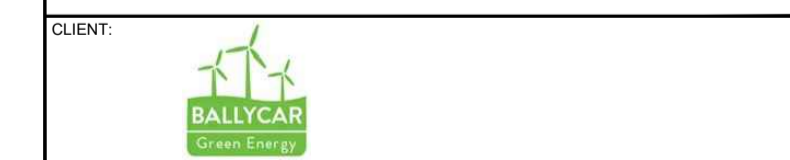


Hardstand Layout (Type 2) T4, T7 & T8 Scale 1:500

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Turbine Hardstand Details



DRAWN: JK	CHECKED: PC	APPROVED: OH
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PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: 1 : 500
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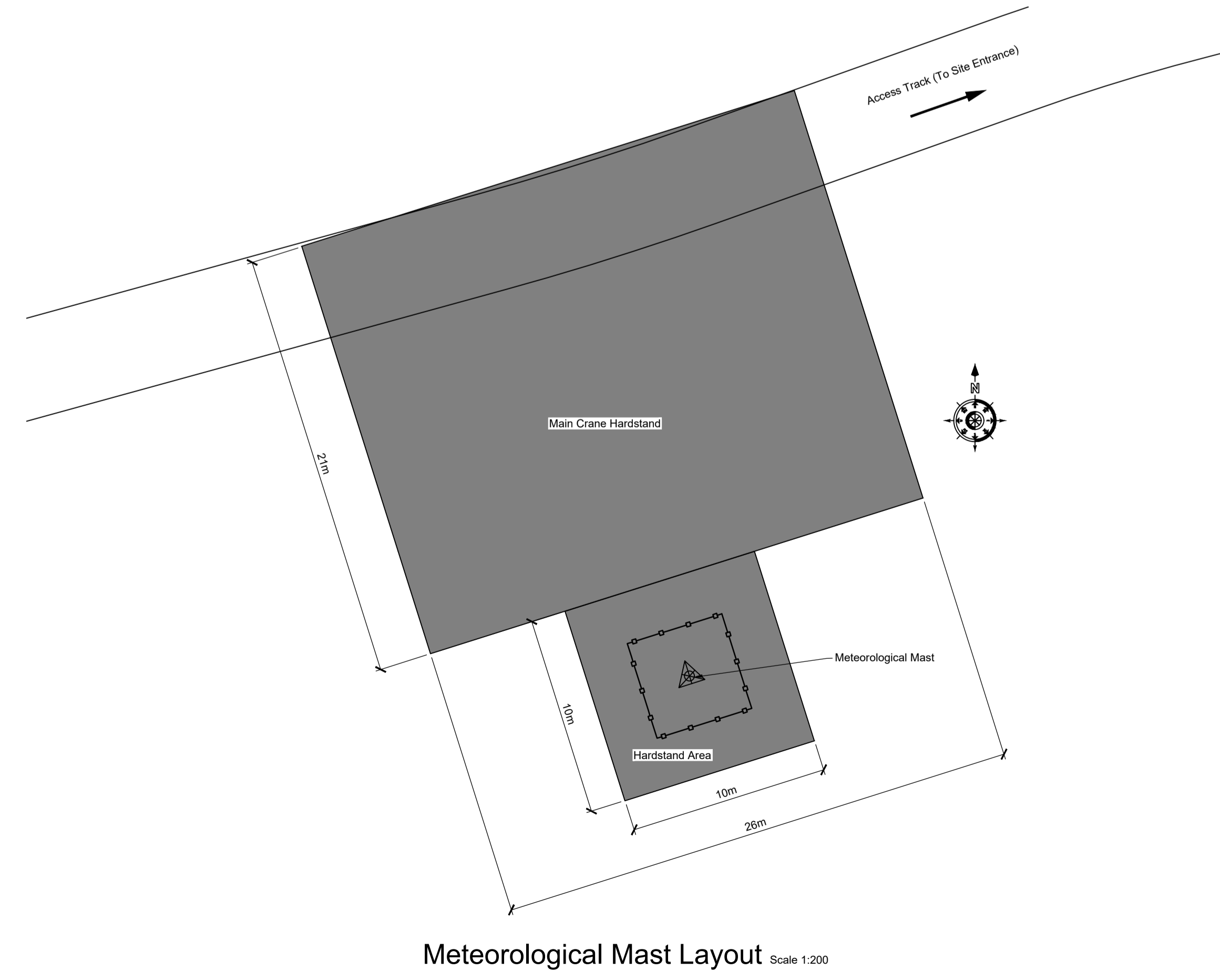
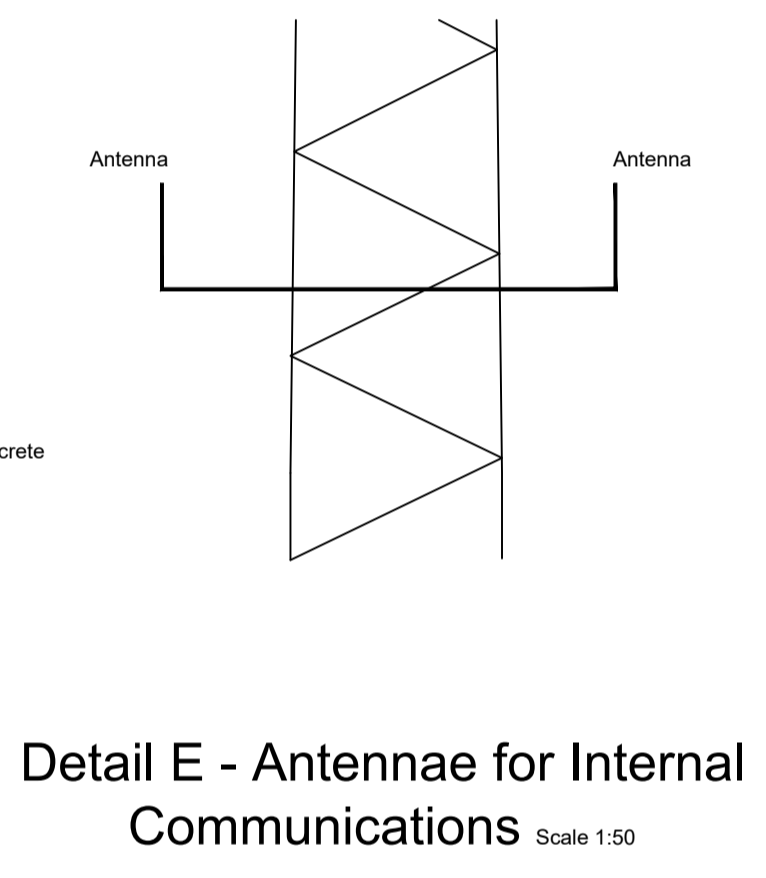
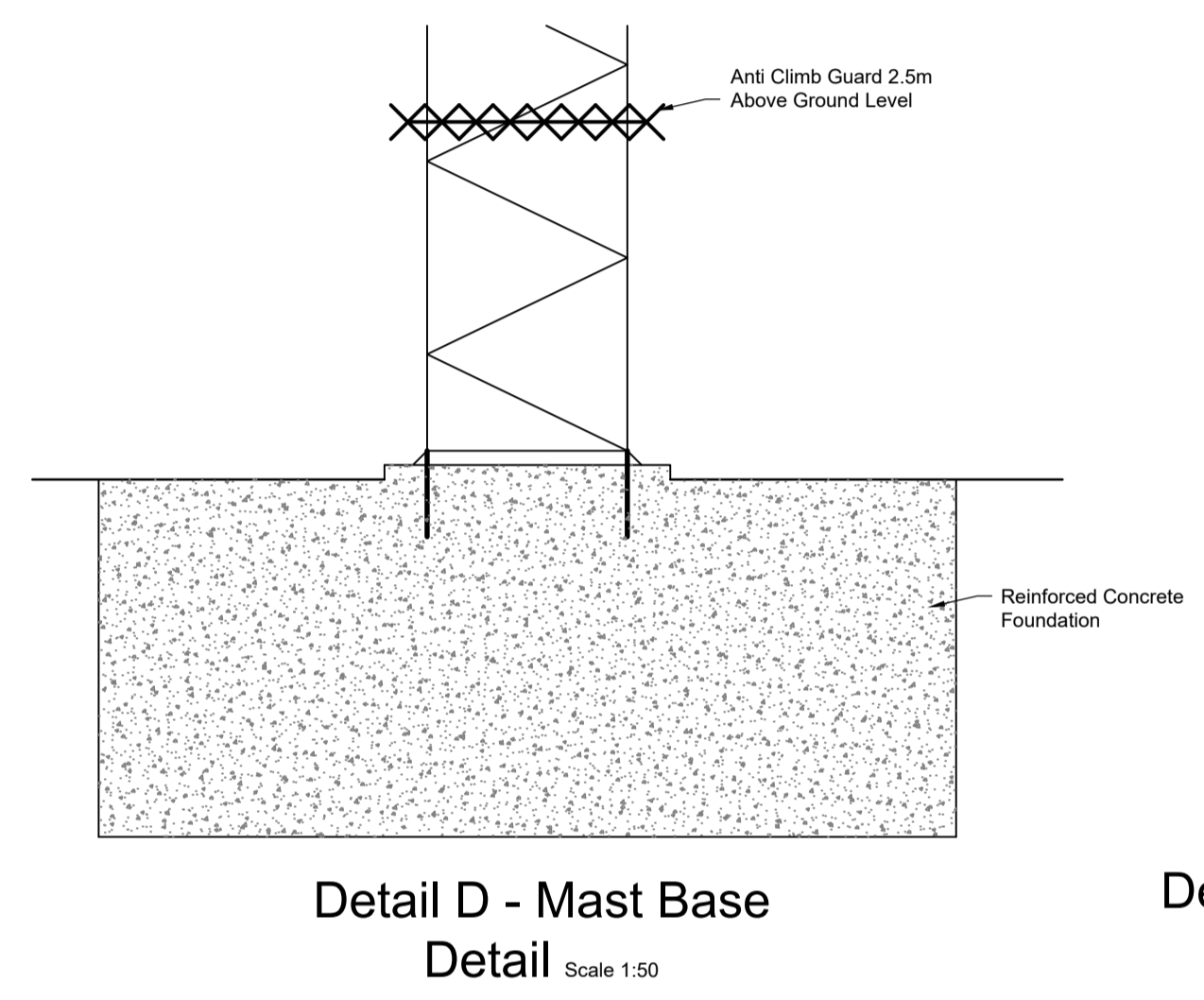
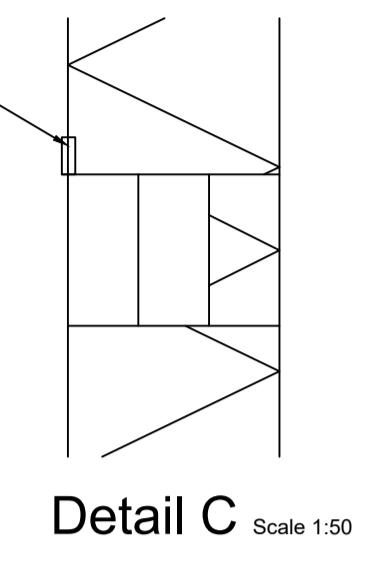
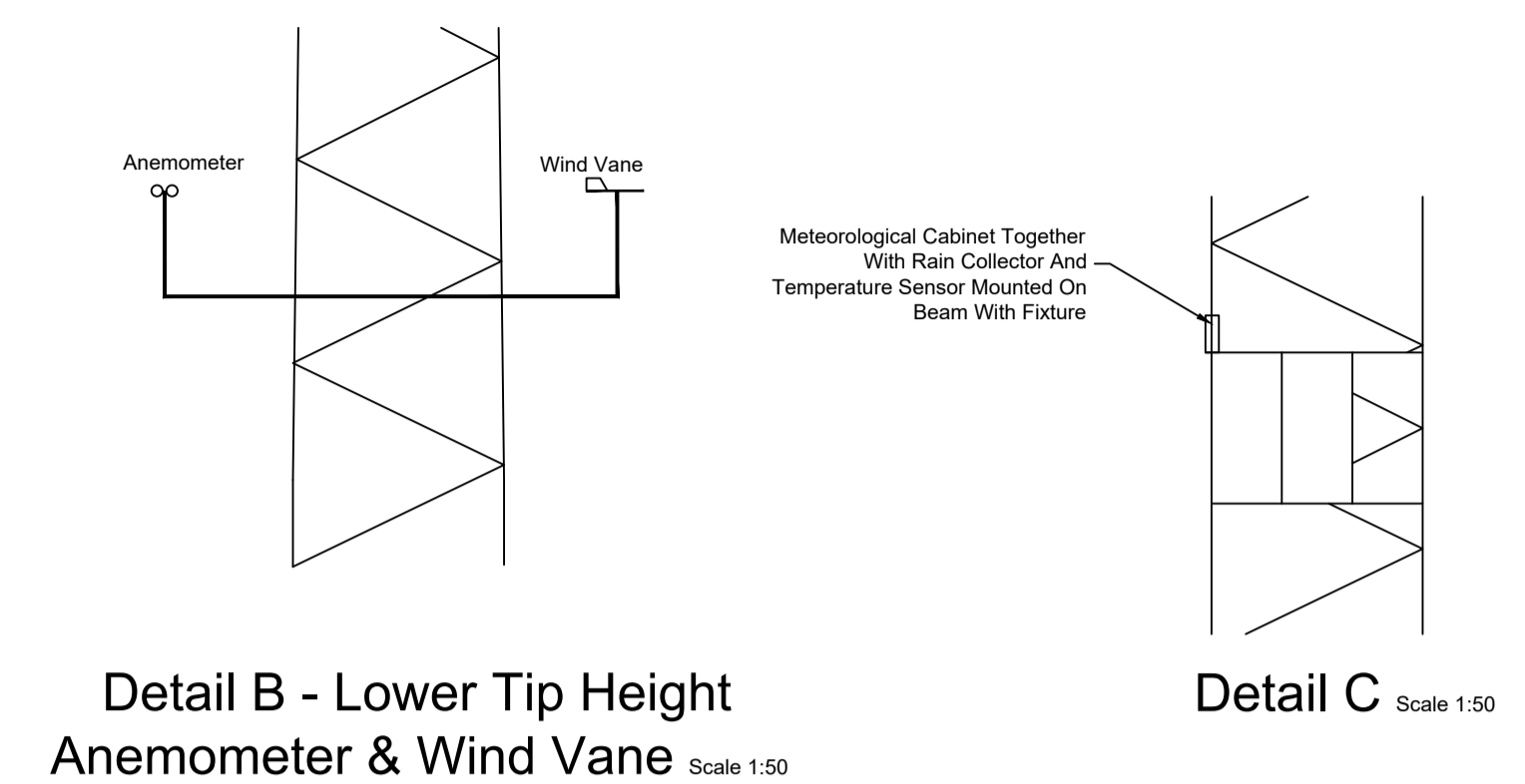
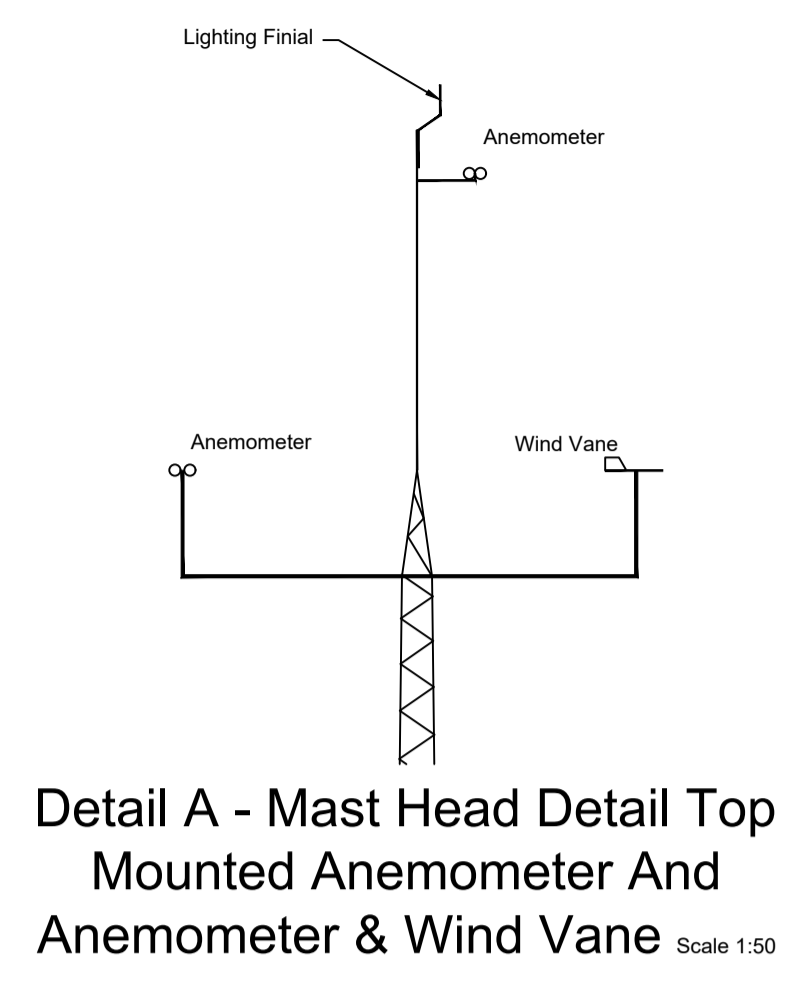
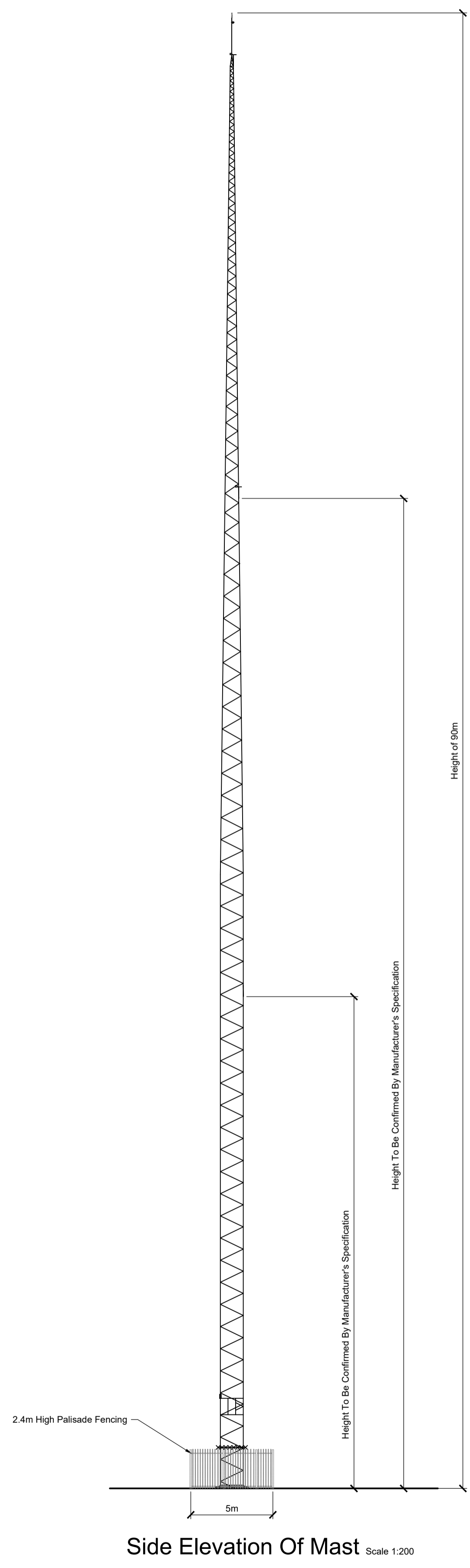
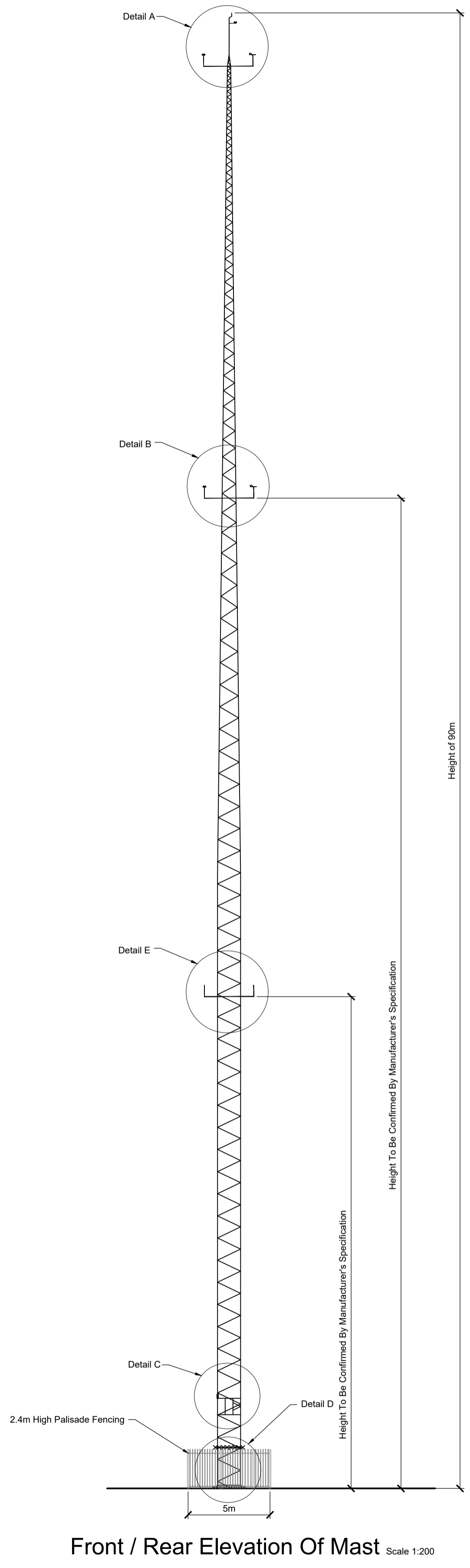
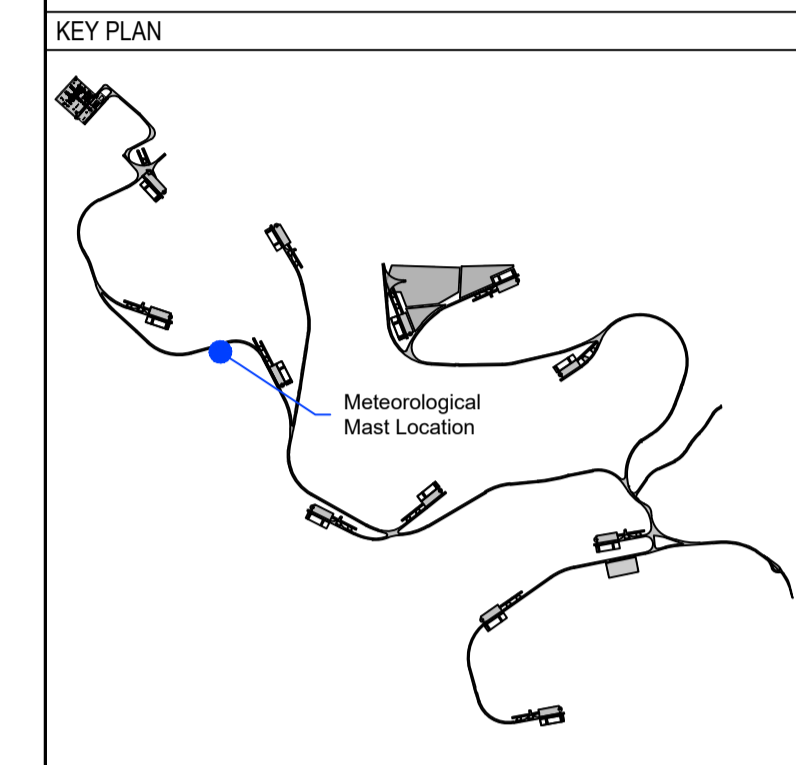
STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5403	REV: P01
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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet



P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Met Mast Details

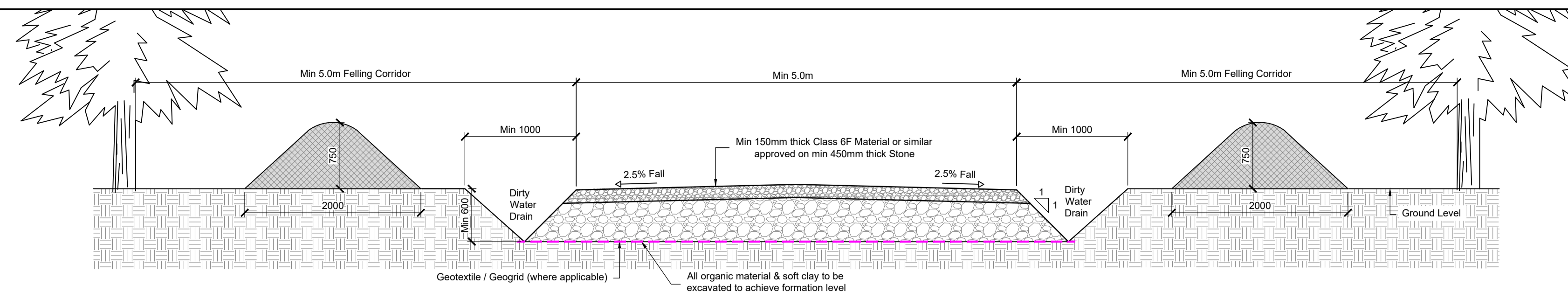


DRAWN: JK	CHECKED: PC	APPROVED: OH
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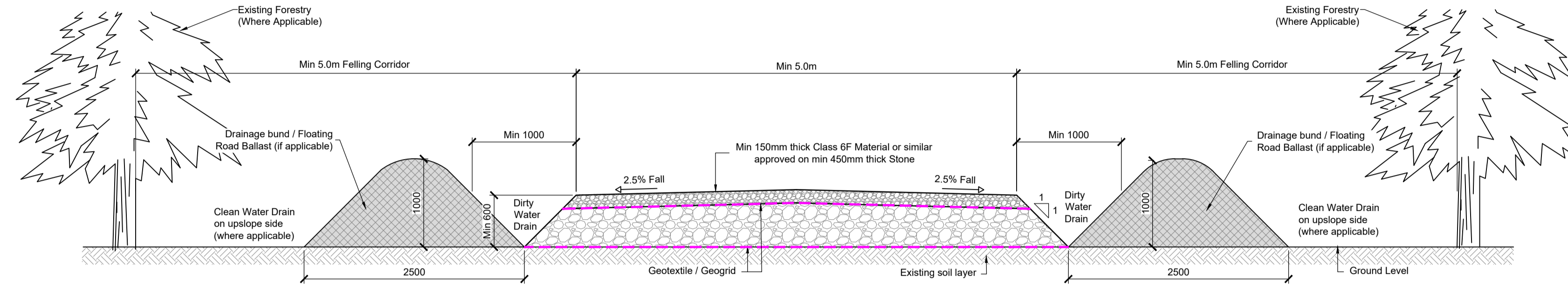
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown
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STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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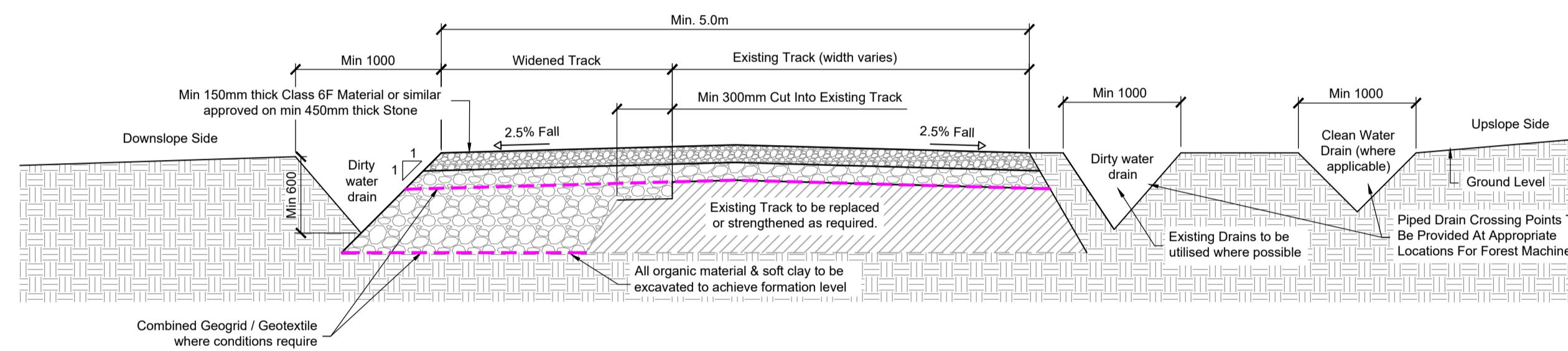
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5404	REV: P01
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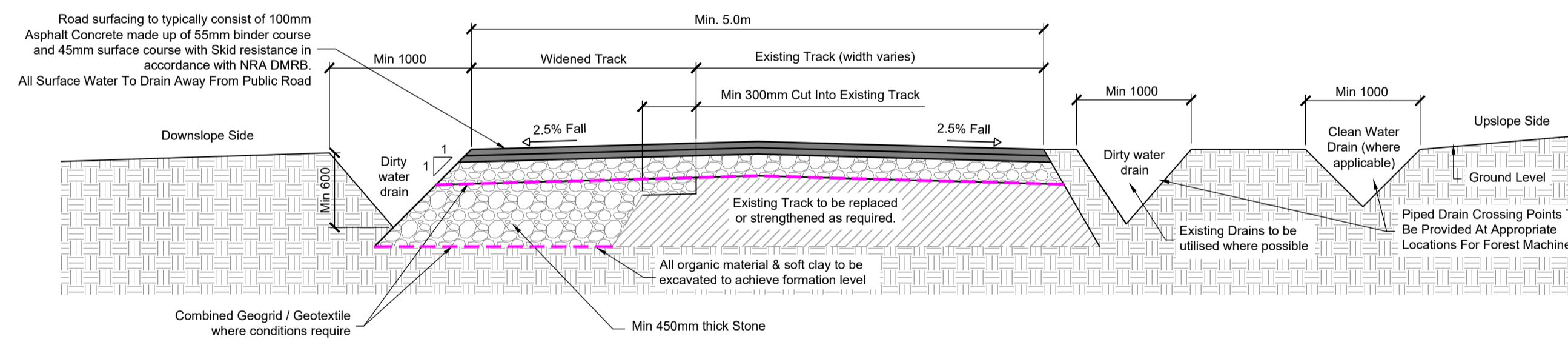
Access Track Type 1 - Excavated Access Track Detail Scale 1:40



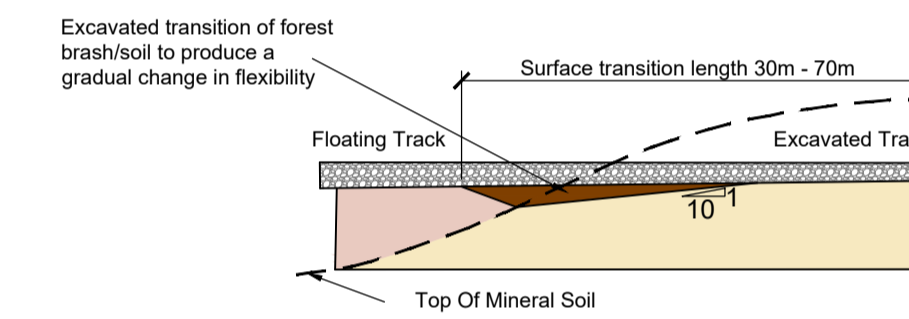
Access Track Type 2 - Floating Access Track Detail Scale 1:40



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

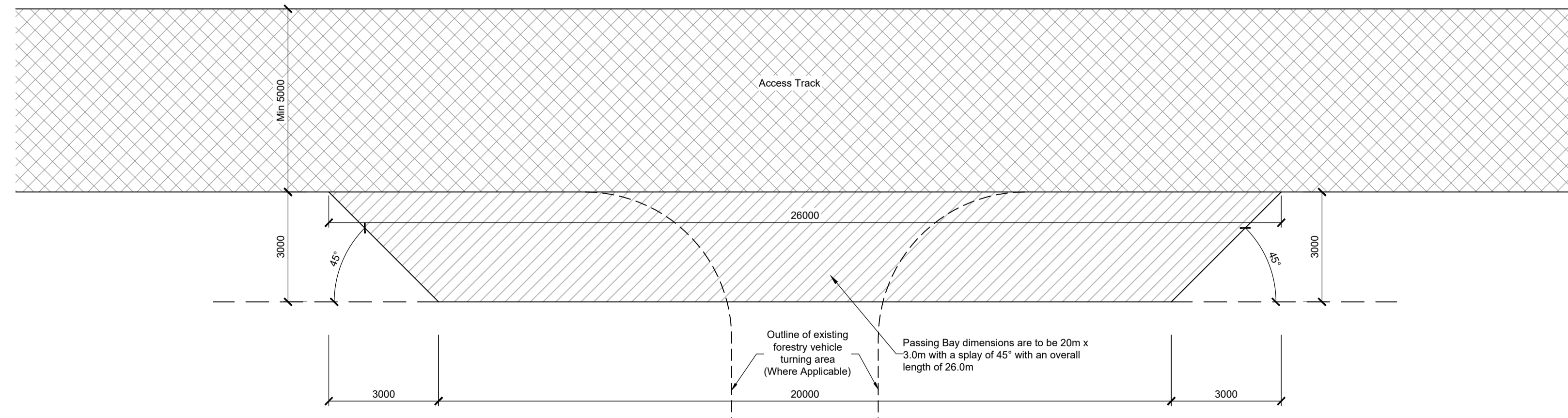


Access Track Type 4 - Detail for Upgrading / Widening Existing Track (Bitumen Surface) Scale 1:40



Transition From Floating To Solid Access Track Not To Scale

NOTE: Passing Bays will be Constructed as Required.
Existing Entrances / Junctions / Turning Heads will be Utilised as Much as Possible



Passing Bay Plan Detail Scale 1:100

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DRAWING REFERENCE:

22156-MWP-00-00-DR-C-5905	Site Layout - Master Sheet
22156-MWP-00-00-DR-C-5906	Drainage Layout - Master Sheet

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Access Track Details

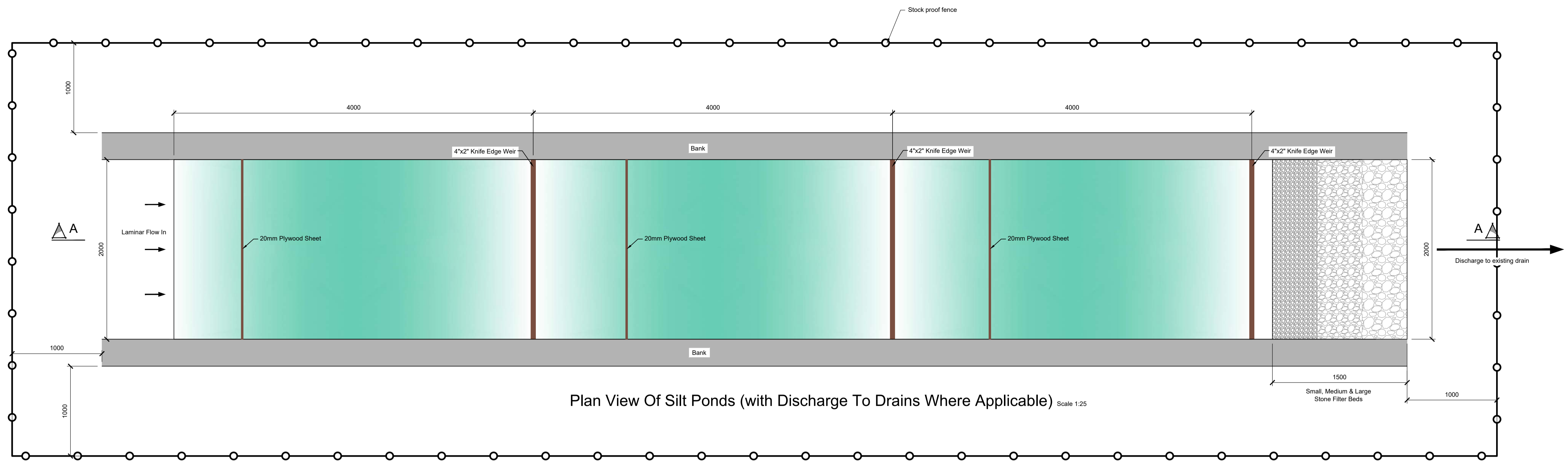


DRAWN: JK	CHECKED: PC	APPROVED: OH
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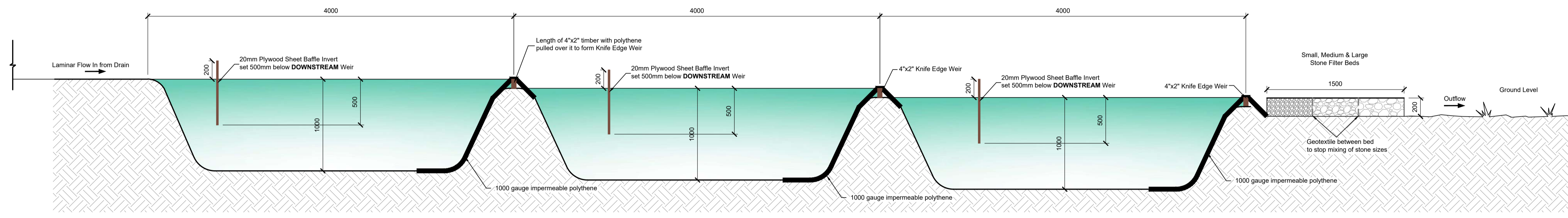
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown
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STATUS DESCRIPTION: FOR INFORMATION	STATUS: S2
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DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5405	REV: P01
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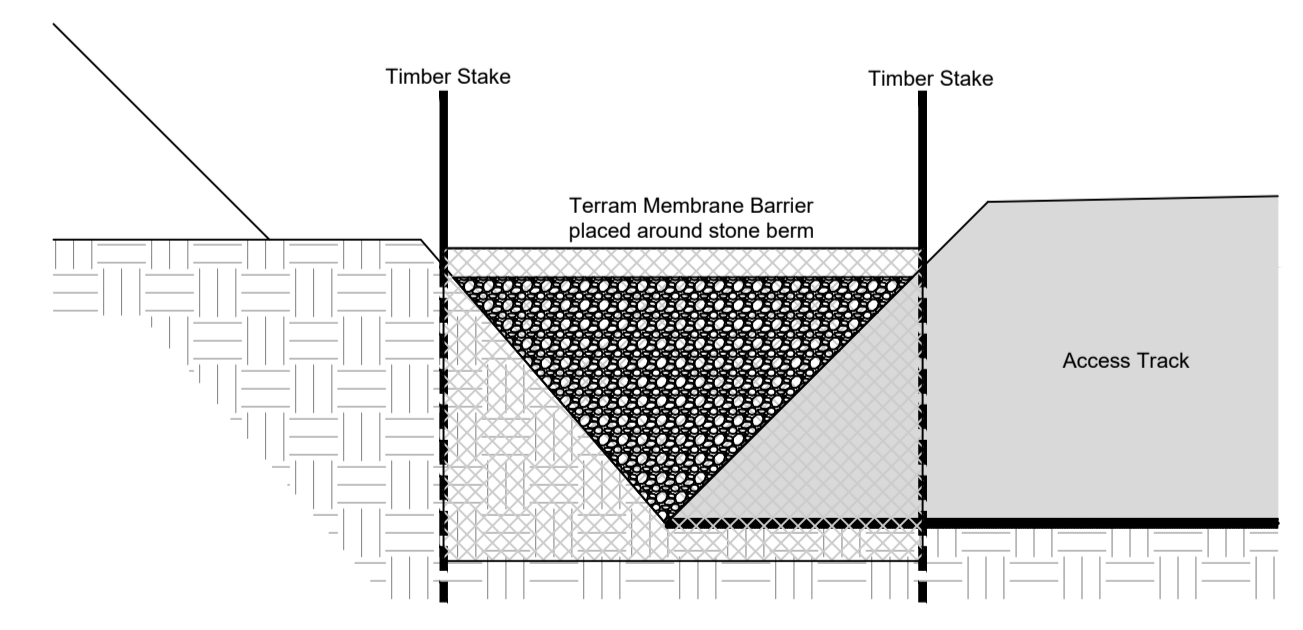
Plan View Of Silt Ponds (with Discharge To Drains Where Applicable) Scale 1:25



Section A-A Scale 1:25



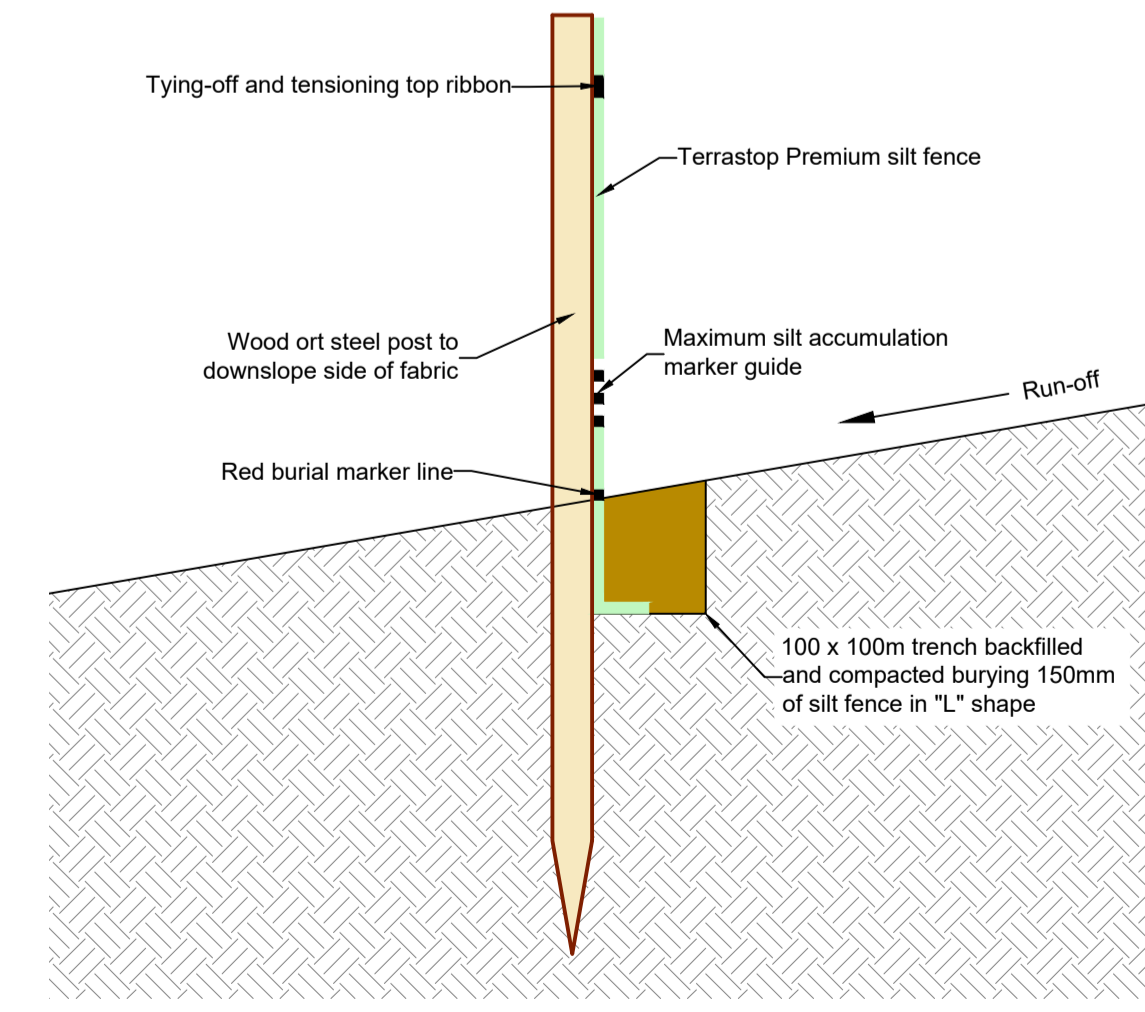
Baffle/Weir Detail



Sediment Fence Detail Scale 1:20



Completed Settling Pond System



Silt Fence Detail

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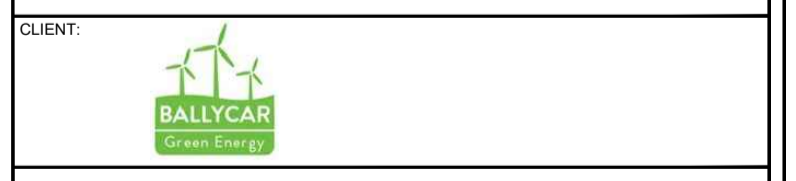
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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Ballycar Wind Farm

TITLE: Drainage Details

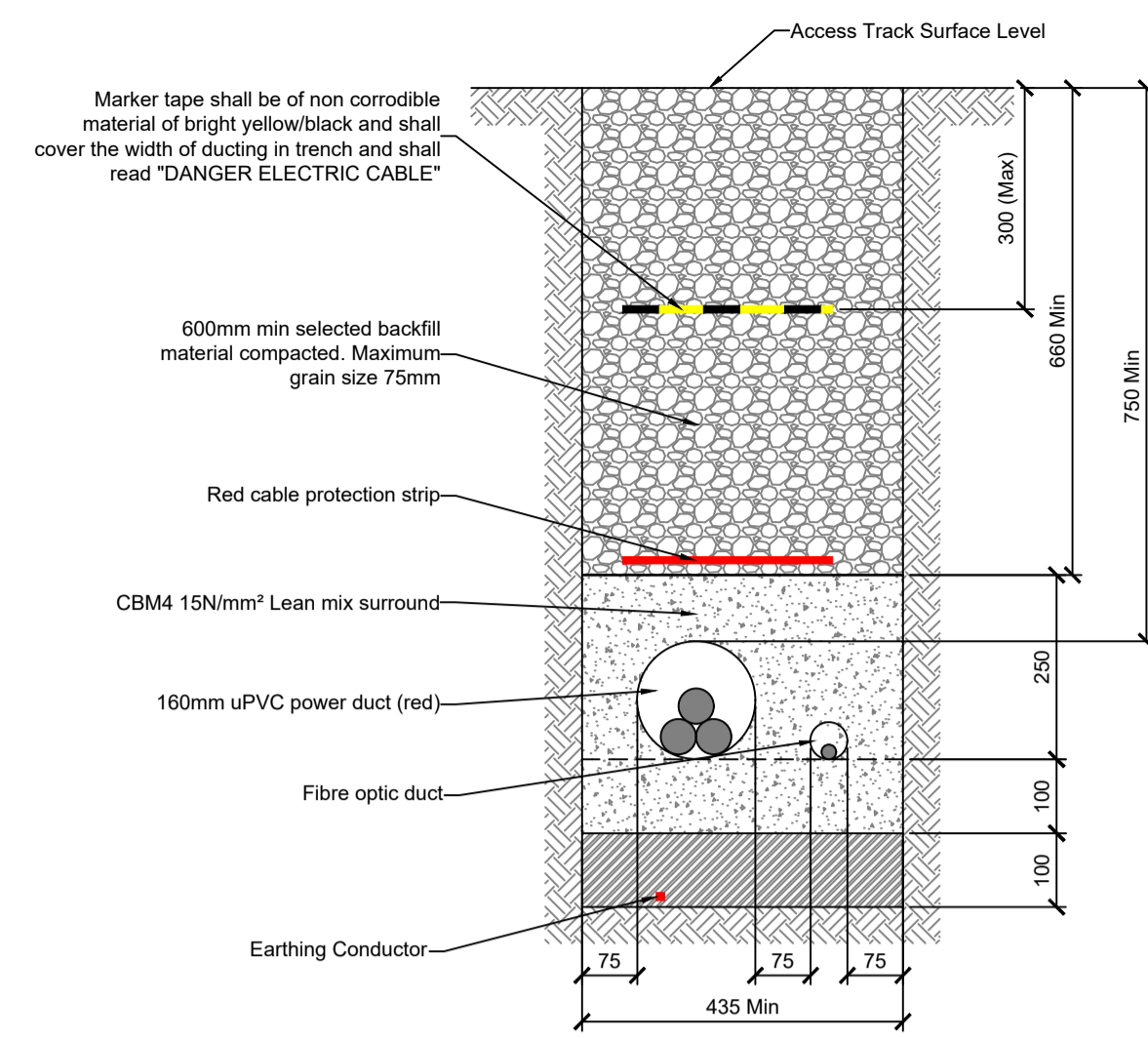


DRAWN:	CHECKED:	APPROVED:
JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	As Shown

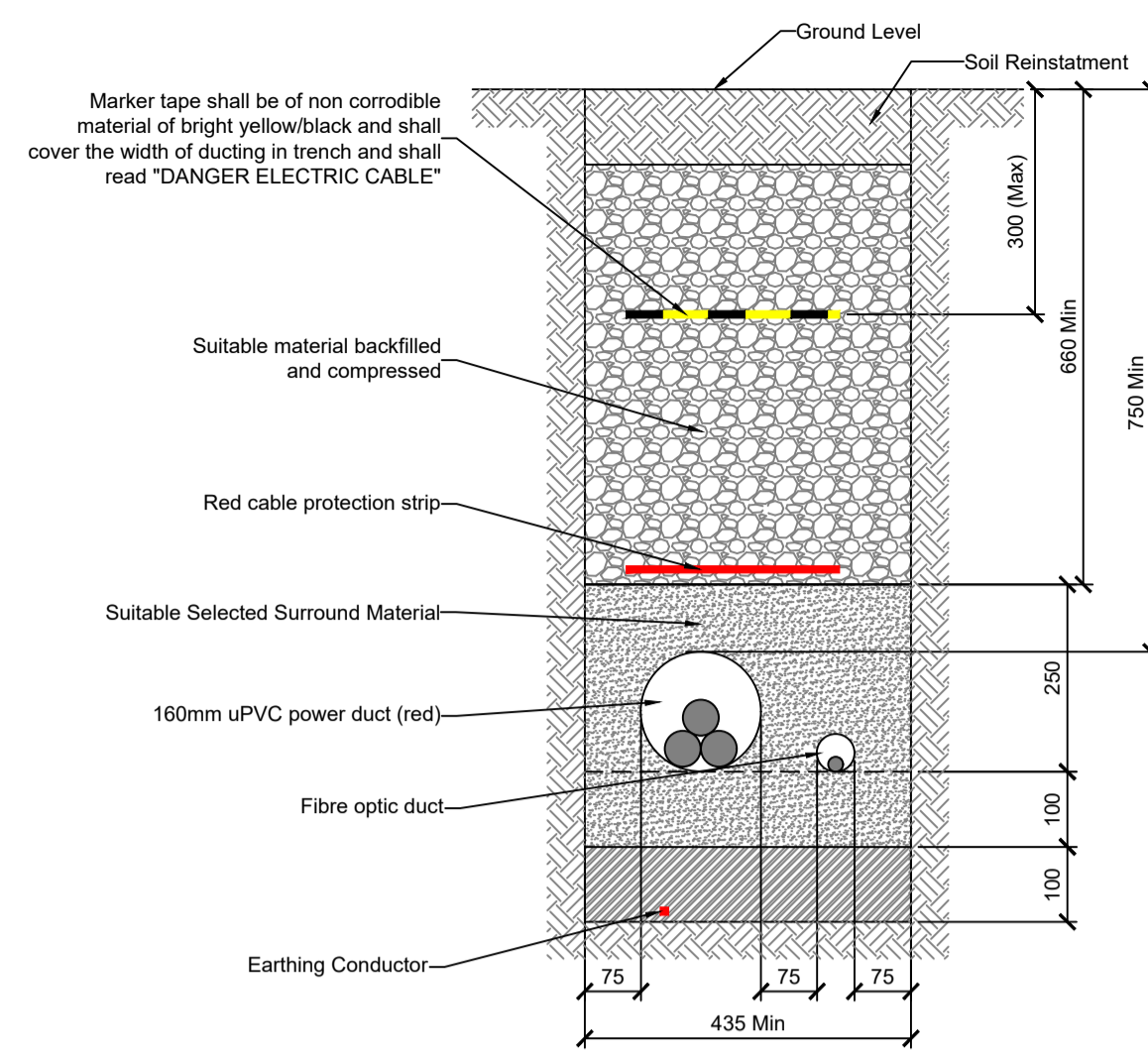
STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 00 - 00 - DR - C - 5406	P01



Cable Trench - Wind Farm Access Track
Single Circuit (Internal Cable)

Scale 1:10

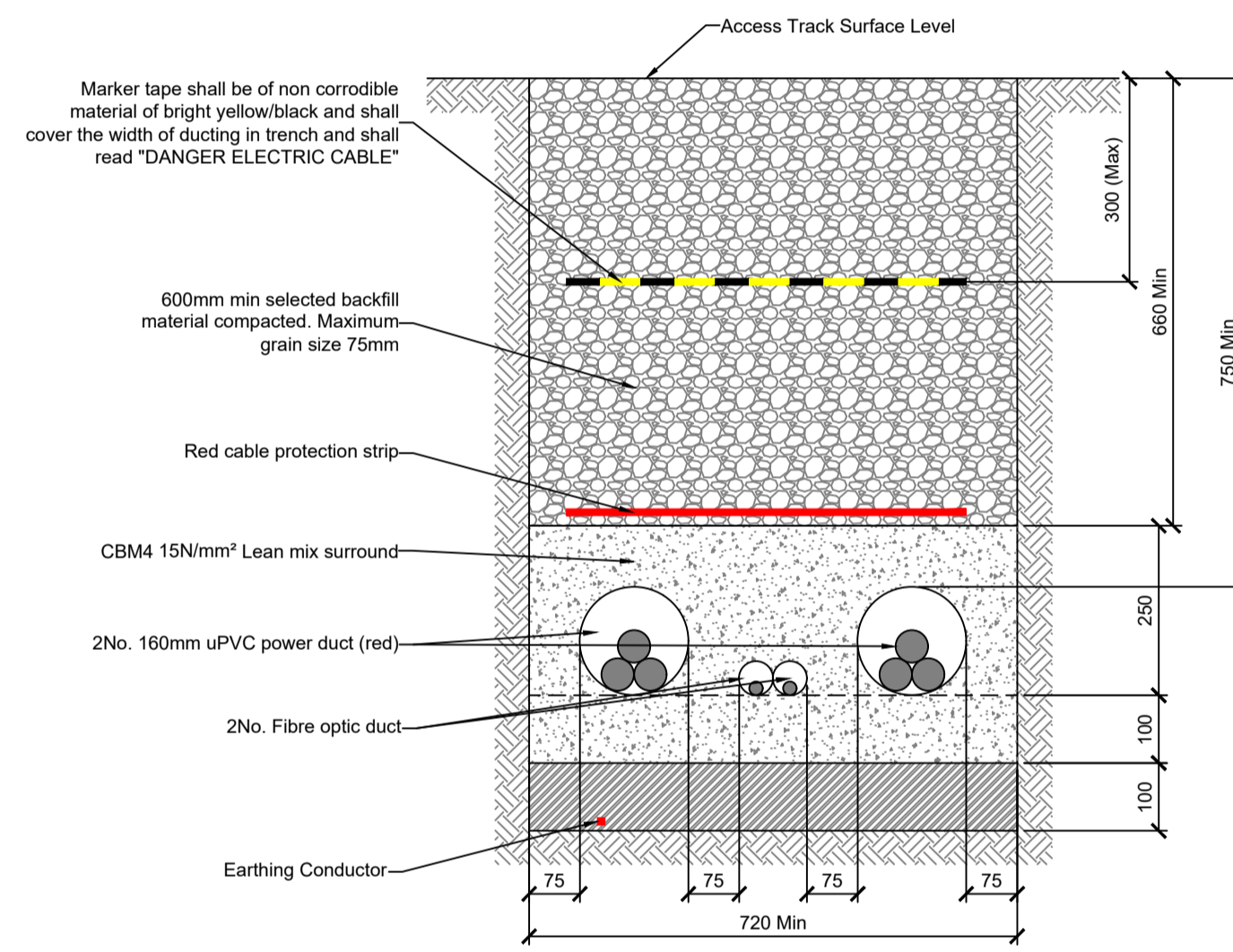


Cable Trench - Open Ground
Single Circuit (Internal Cable)

Scale 1:10

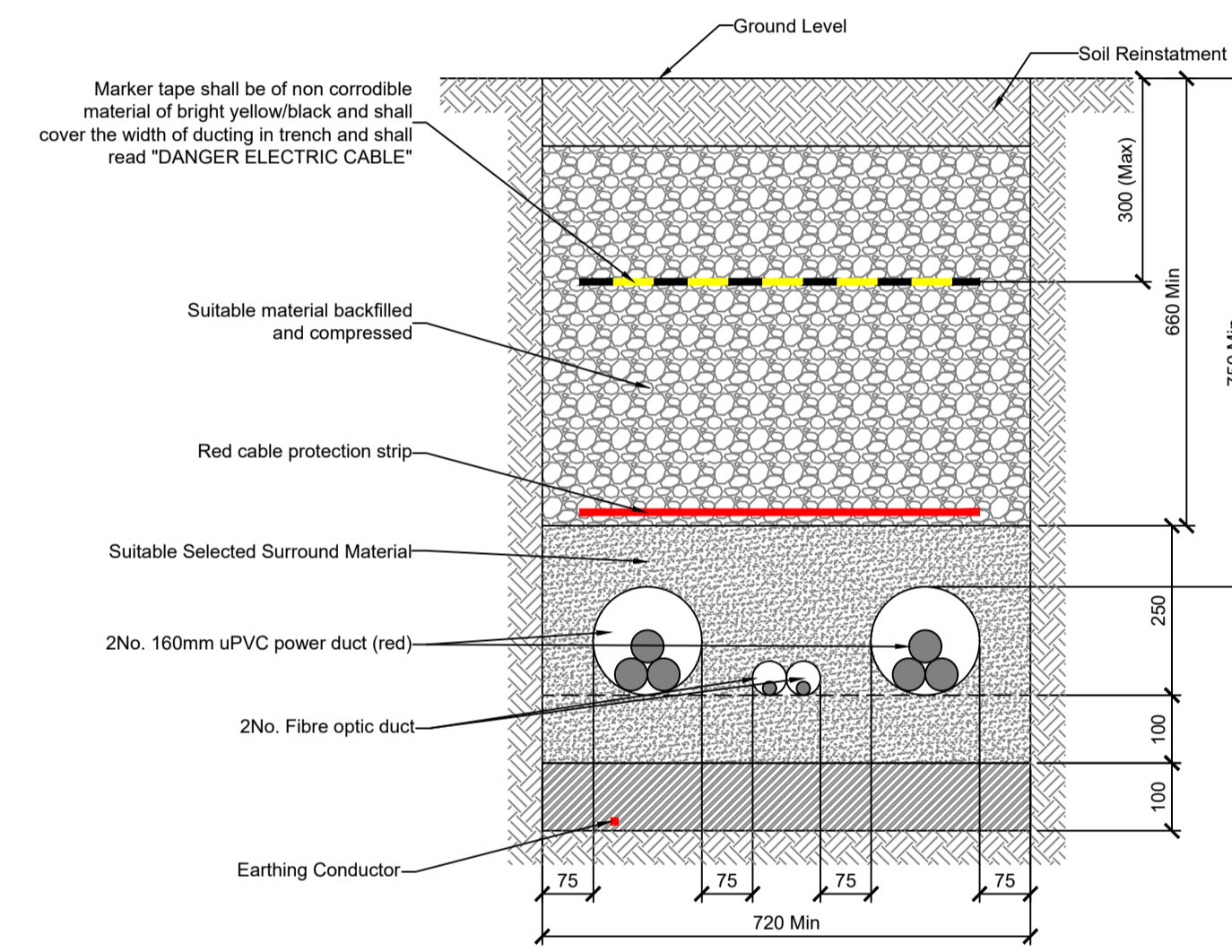


Cable Marker Post



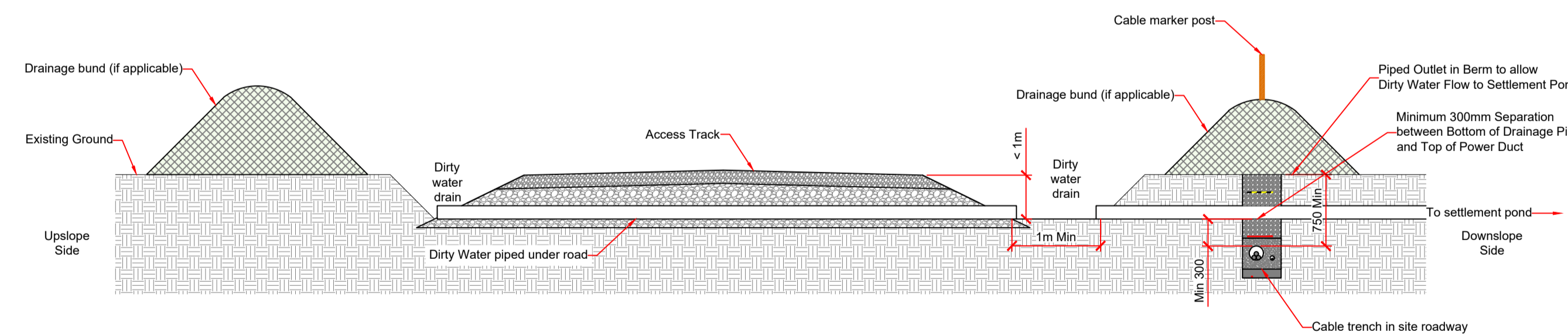
Cable Trench - Wind Farm Access Track
Twin Circuit (Internal Cable)

Scale 1:10

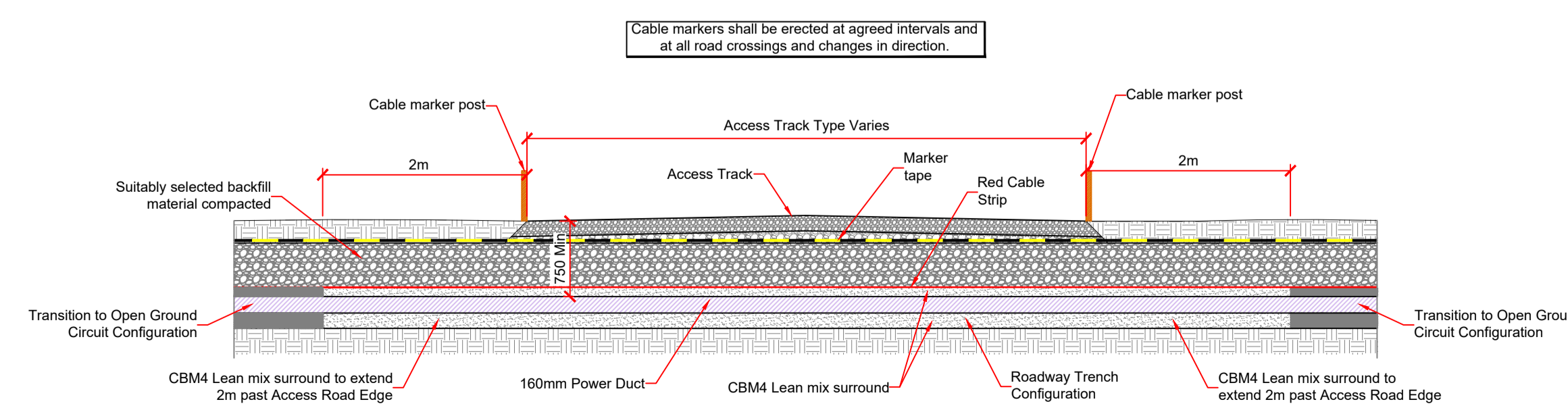


Cable Trench - Open Ground
Twin Circuit (Internal Cable)

Scale 1:10



Dirty Drain Crossing Detail for Excavated Access Track Scale 1:50



Cable Trench Crossing Detail under Access Track Scale 1:50

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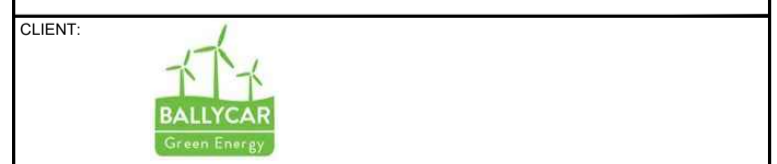
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DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

PO1	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
Ballycar Wind Farm

TITLE:
Cable Trench Details



DRAWN:	JK	CHECKED:	PC	APPROVED:	OH
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PROJECT NUMBER:	22156	DATE:	December 2023	SCALE @ A1:	As Shown
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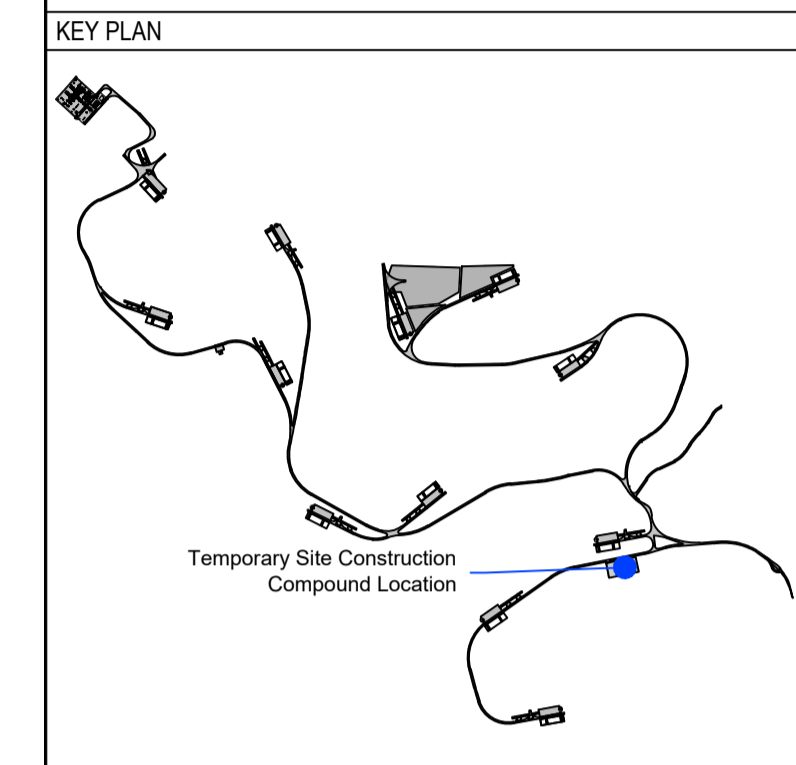
STATUS DESCRIPTION:	FOR INFORMATION	STATUS:	S2
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DRAWING NUMBER:	22156 - MWP - 00 - 00 - DR - C - 5407	REV:	P01
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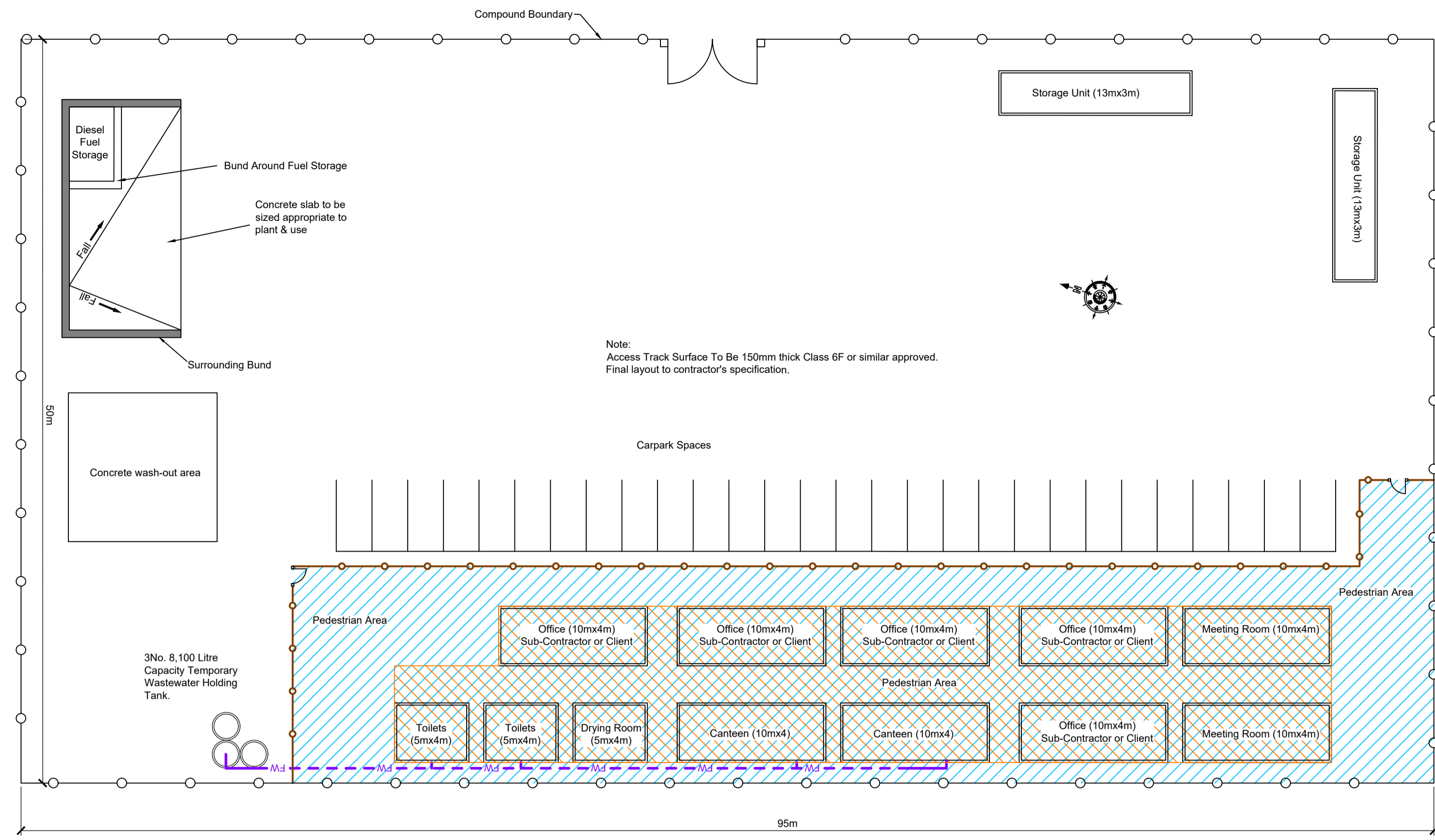
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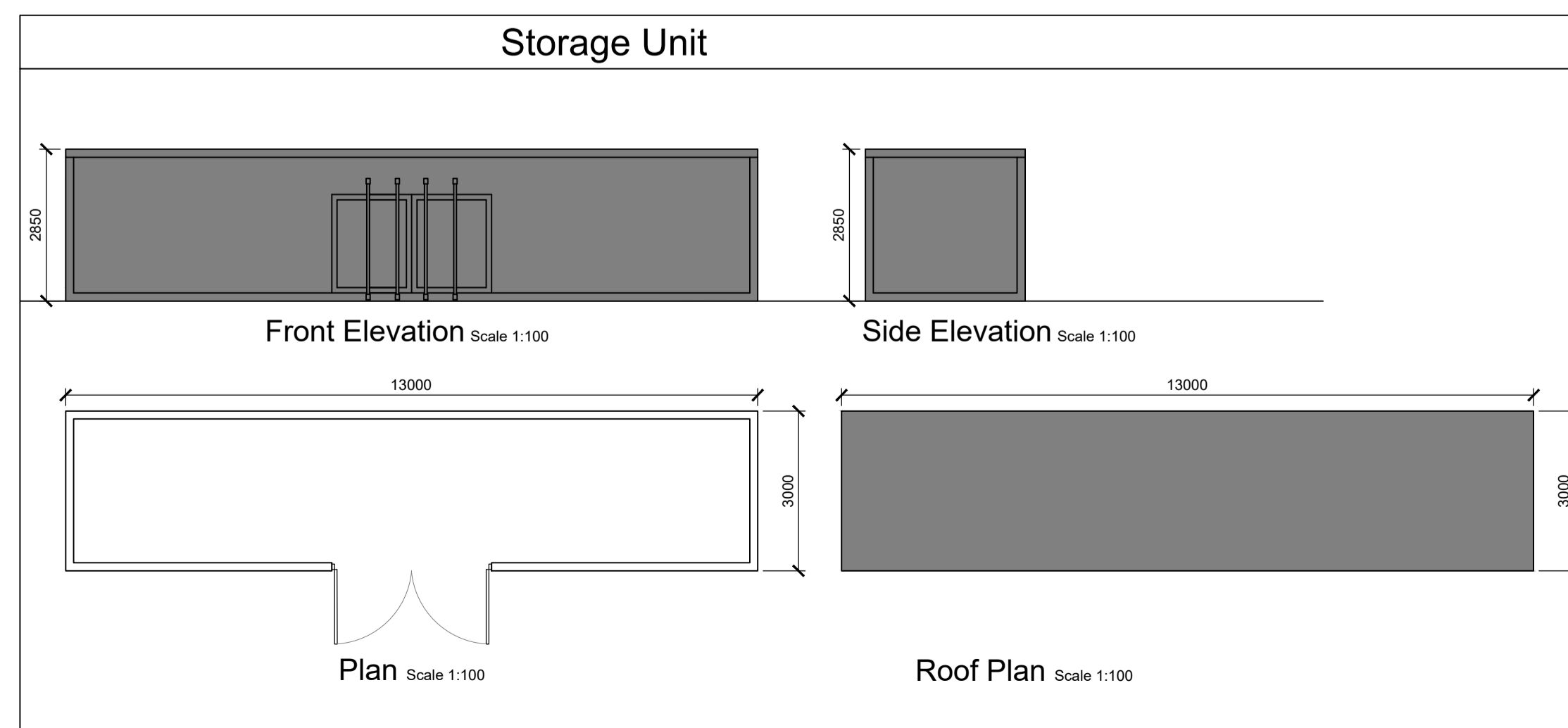
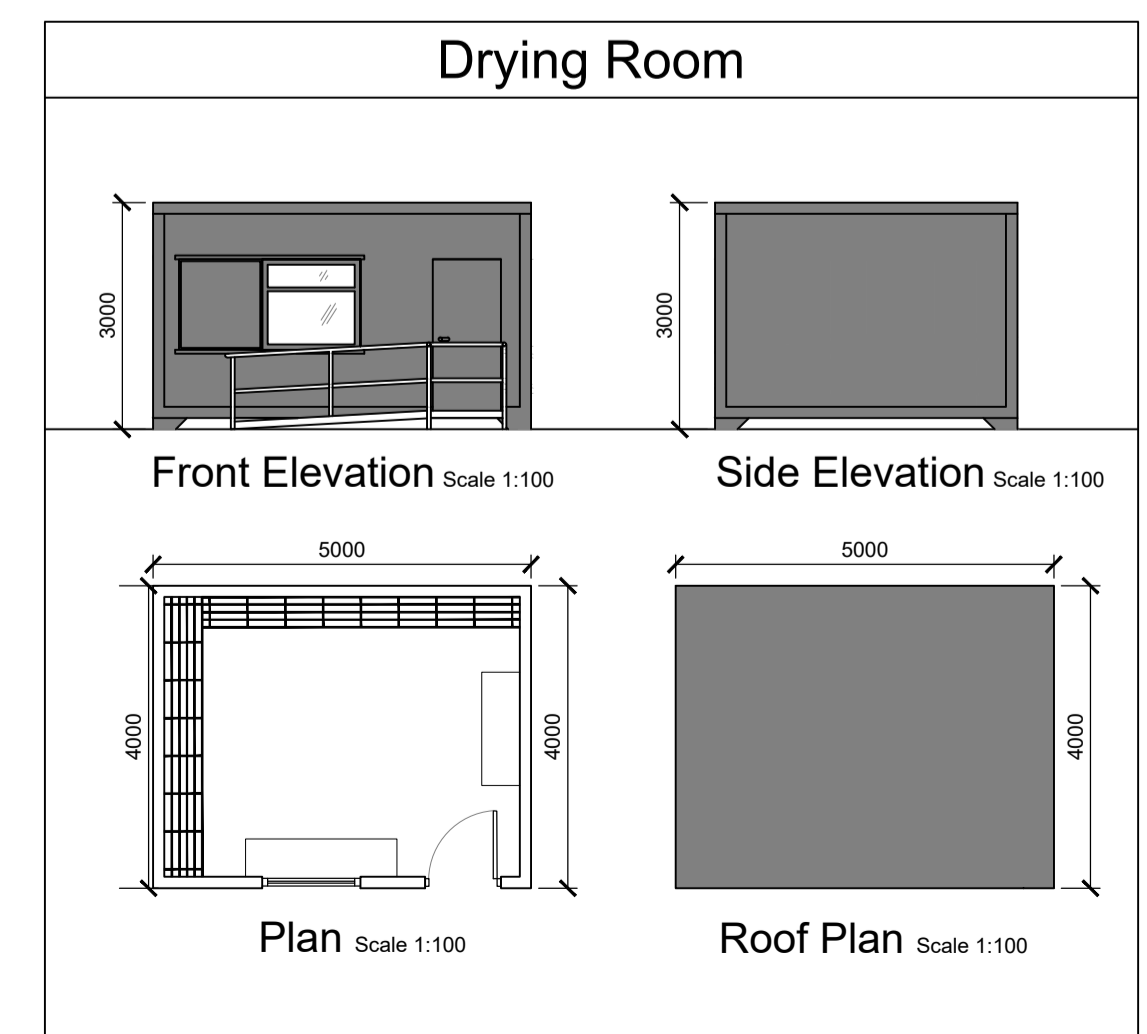
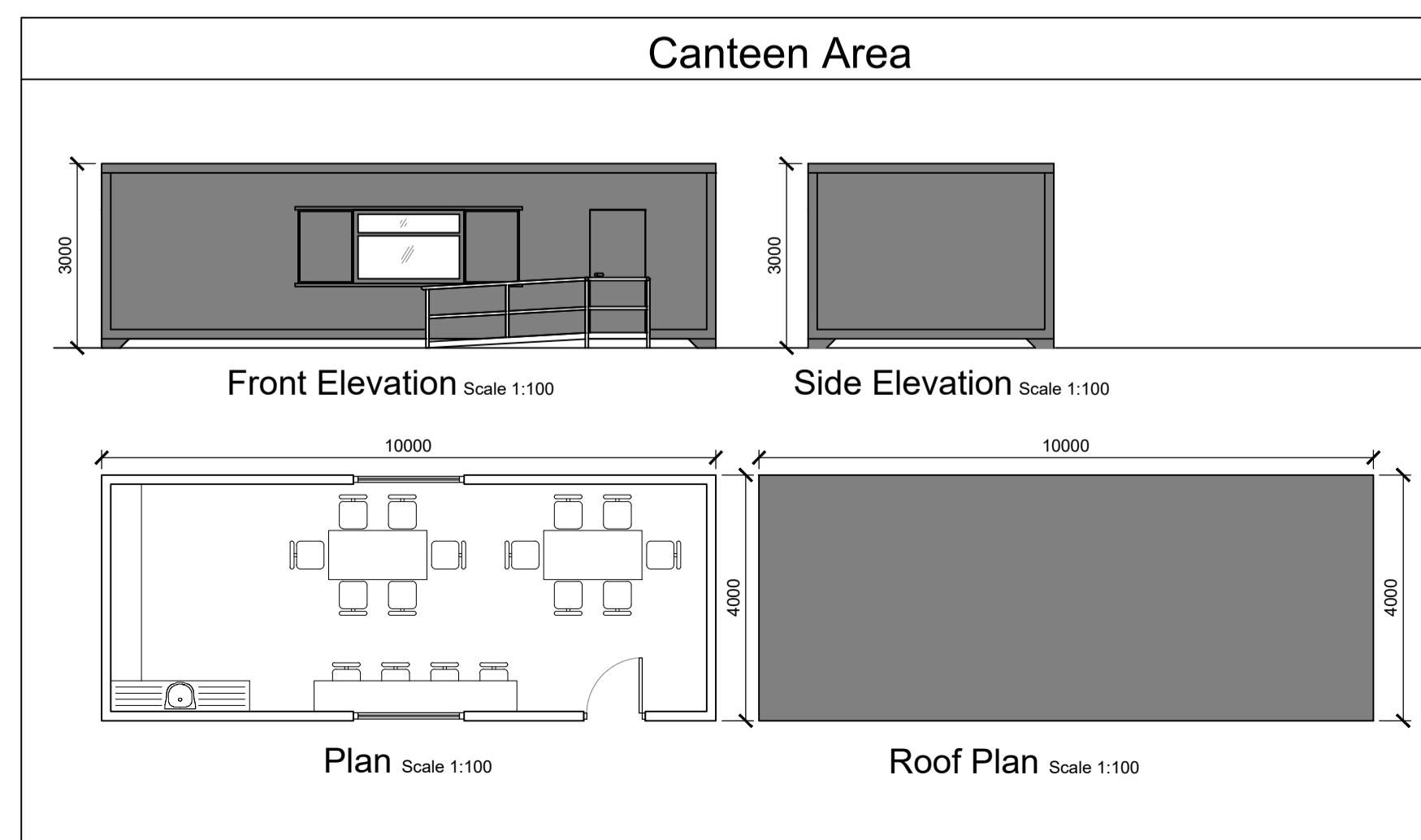
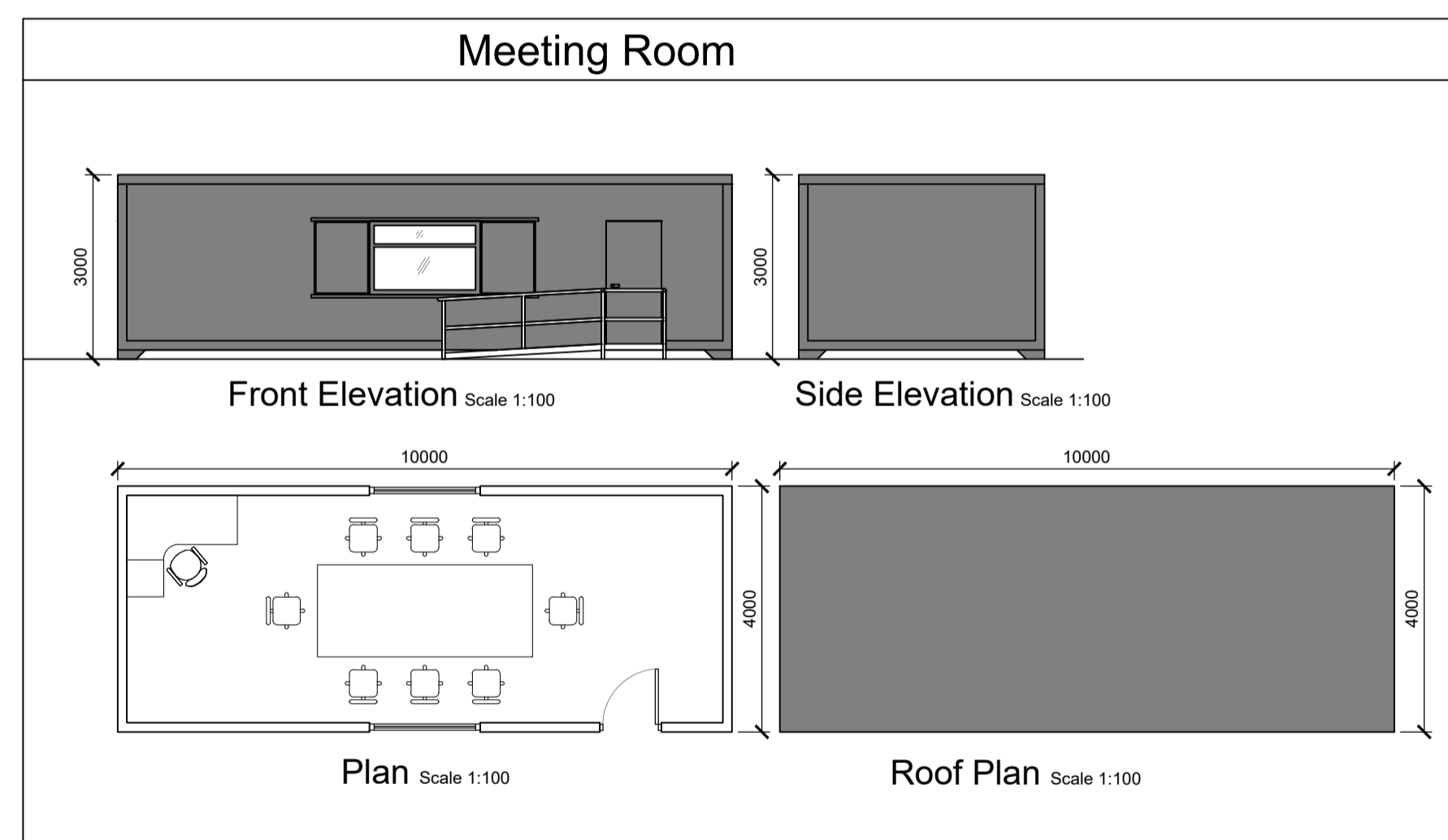
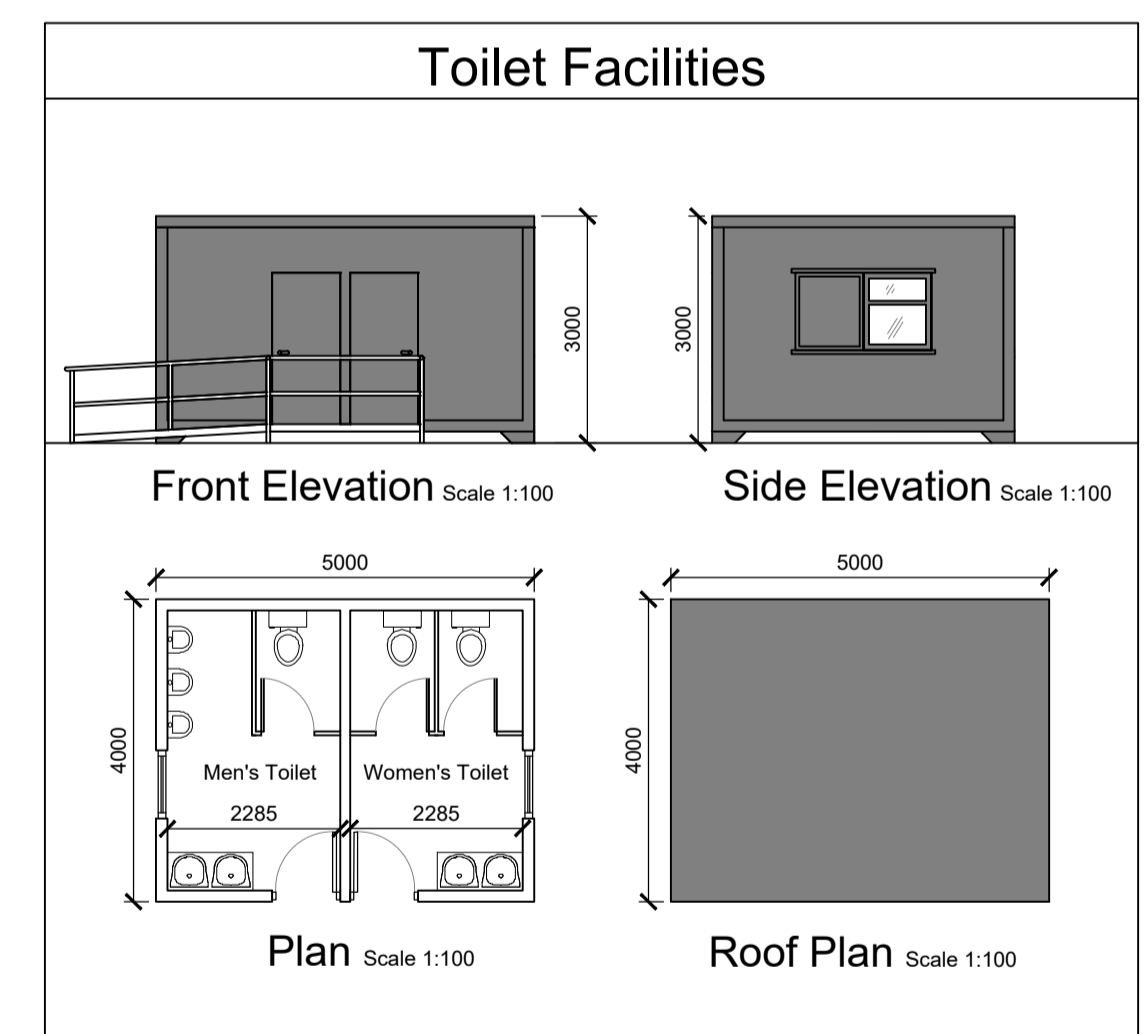
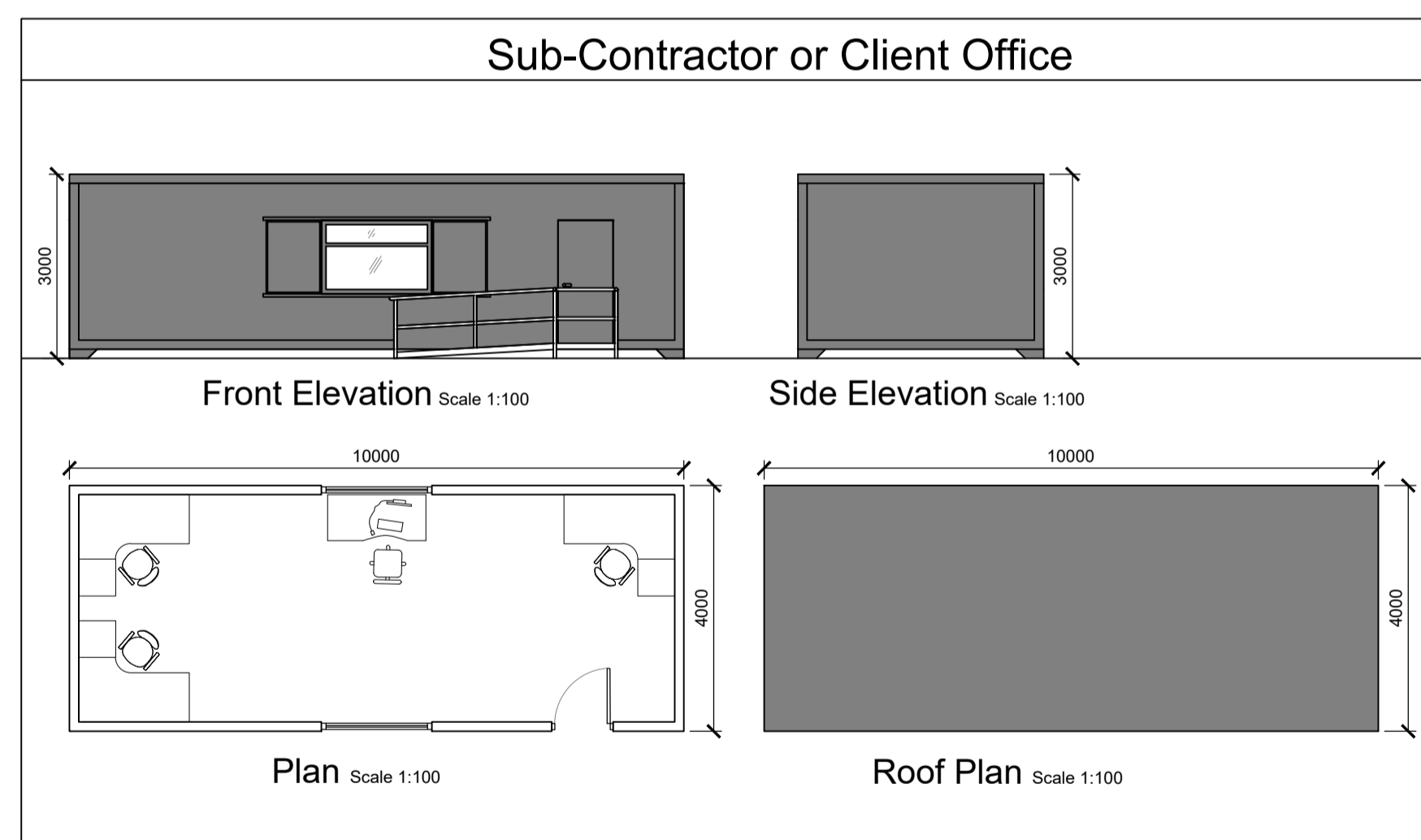


Storage Unit To Be Used On Site

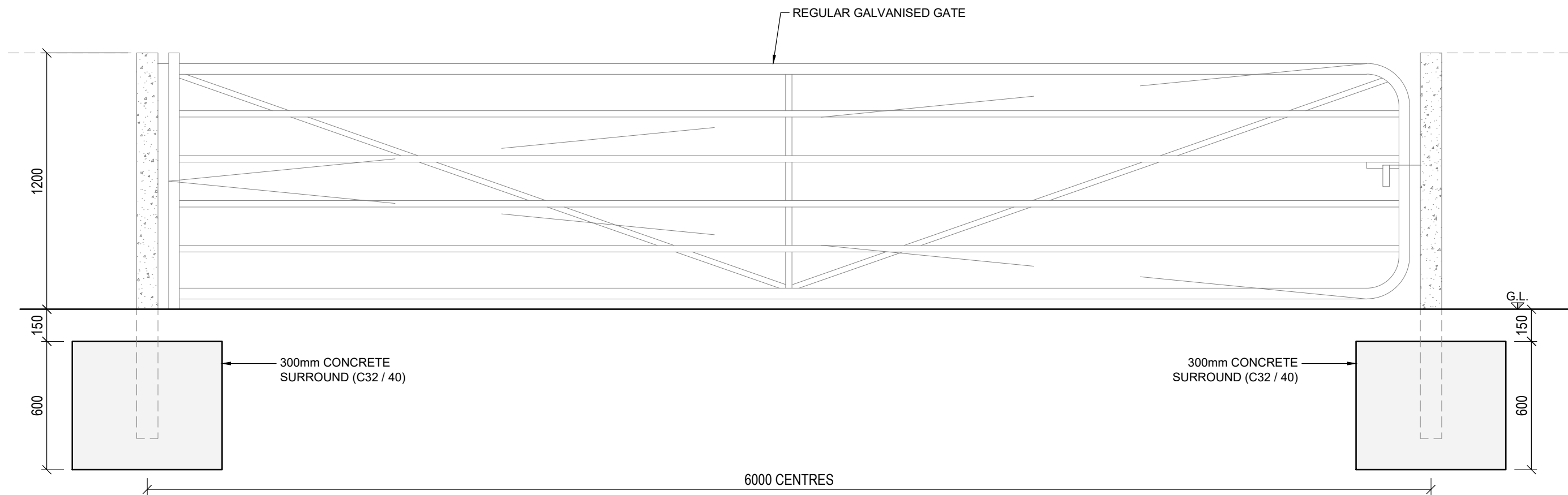


Temporary Site Construction Compound Layout Scale 1:250

Pedestrian Area
 Roofed Area Over Containers



P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Temporary Site Construction Compound Layout and Building Details				
CLIENT:				
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie				
DRAWN: JK	CHECKED: PC	APPROVED: OH		
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown		
STATUS DESCRIPTION: FOR INFORMATION			STATUS: S2	
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5408				REV: P01




AGRICULTURAL GATE DETAIL (SITE ENTRANCE AT PUBLIC ROAD)

SCALE: 1:20

REV	DATE	DESCRIPTION	BY	APP
P01	08.12.23	Issued For Planning	JK	PC

CLIENT




MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

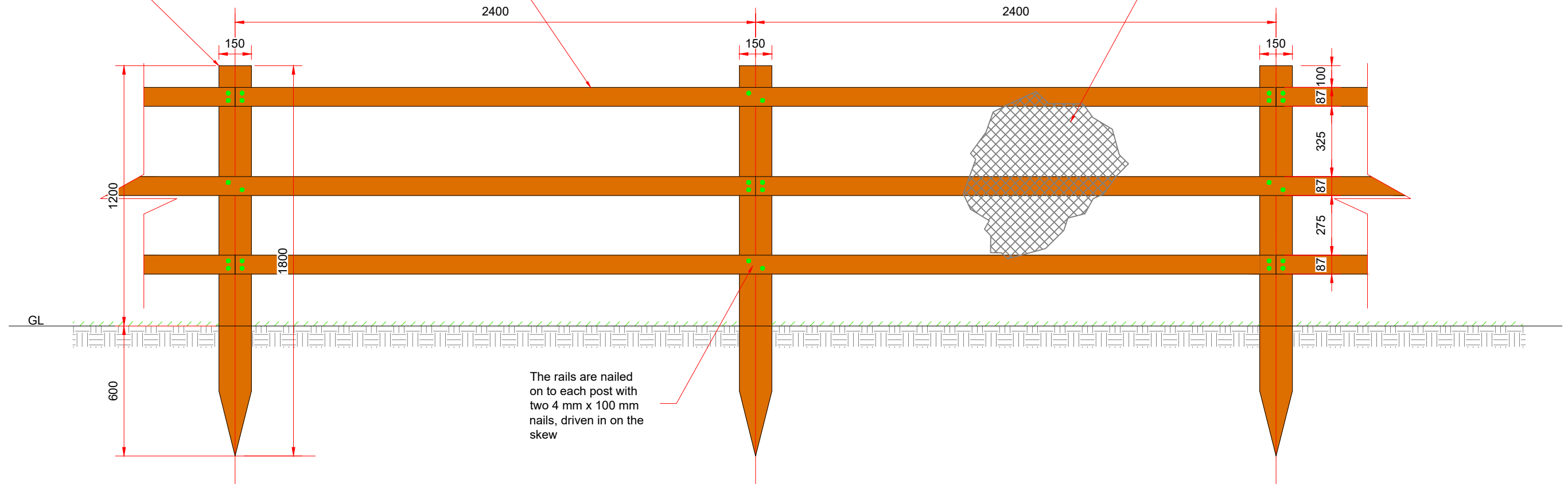
PROJECT:	Ballycar Wind Farm
TITLE:	Entrance Gate Details

DRAWN:	JK	CHECKED:	PC	APPROVED:	OH
PROJECT NUMBER:	22156	DATE:	December 2023	SCALE @ A3:	As Shown
STATUS DESCRIPTION				STATUS:	
FOR INFORMATION				S2	
DRAWING NUMBER:				REV:	
22156 - MWP - 00 - 00 - DR - C - 5409				P01	

75mm x 150mm sawn pressure treated posts @ 1800mm centers to a depth of 600mm.

87mm x 38mm sawn pressure treated rails, The joints are staggered so that alternate joints occur on one post.

PVC Mesh (If required in livestock areas) fixed to strained PVC coated galvanised steel wire



The rails are nailed on to each post with two 4 mm x 100 mm nails, driven in on the skew


Elevation of Timber Post & Rail Fence Scale 1:20



Timber Post & Rail Fence Detail

Notes:

1. The length of main posts are 1.8m. Main posts have a cross-section of 75 mm x 150 mm, which is the same throughout their length. They are either cut square across at their base or pointed for a length not exceeding 225 mm. Main posts are set vertically in the ground to a depth of 0.6 m. Holes for main posts set in concrete shall be not less than 0.3 m x 0.3 m in plan. All holes have vertical sides. Posts are surrounded in leanmix concrete at the base and fill at least half the depth of the hole. The remainder of the hole is filled with backfill.
2. The length of the rails is 4.8m. Rails have a cross-section of 87 mm x 38 mm.
3. Rails are butt-jointed within the middle third of the 150 mm face of a main post. The joints are staggered so that alternate joints occur on one post. The rails are nailed on to each post with two 4 mm x 100 mm nails, driven in on the skew. Nails are round, plain-head nails conforming to BS 1202-1 and hot-dip galvanized in accordance with IS EN ISO 1461
4. All works are carried out in accordance with IS EN 1722-7:2006.

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
CLIENT				
				

MWP

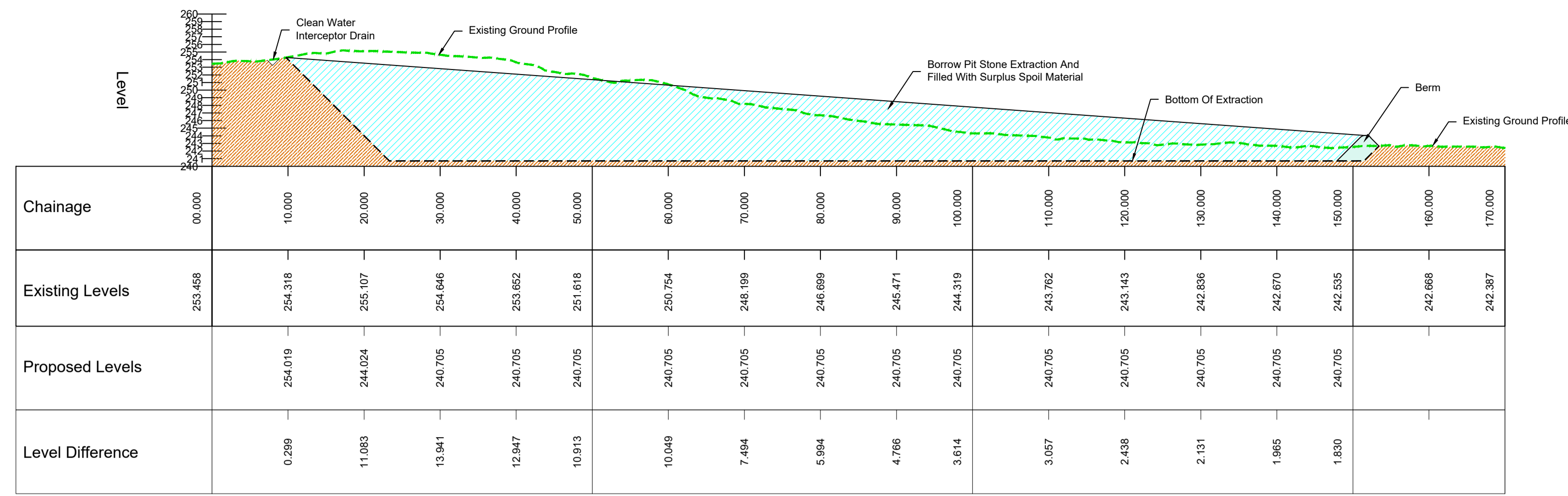
ENGINEERING AND ENVIRONMENTAL CONSULTANTS

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mwp.ie

PROJECT:	Ballycar Wind Farm
TITLE:	Timber Post and Rail Details

DRAWN: JK	CHECKED: PC	APPROVED: OH
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A3: 1 : 20
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5410		REV: P01



LONGSECTION A-A
SCALE: H 1:500, V 1:500, DATUM: 240.000



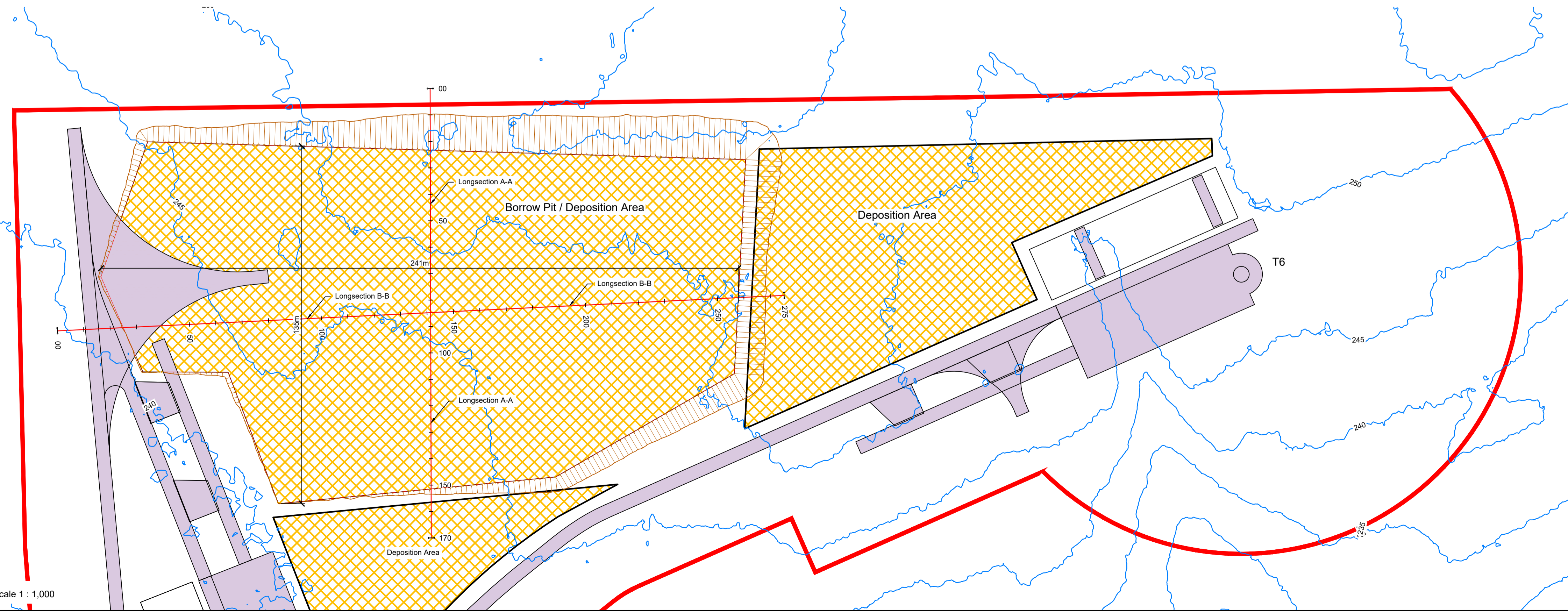
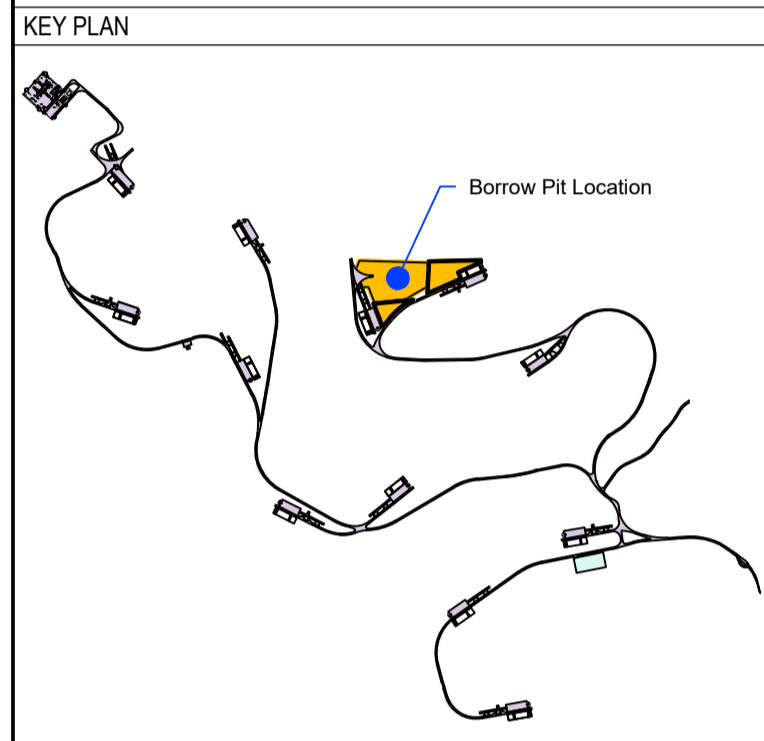
LONGSECTION B-B
SCALE: H 1:500, V 1:500, DATUM: 235.000

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION. © THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

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 - ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD.
 - ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - DRAWINGS ARE NOT TO BE SCALED.
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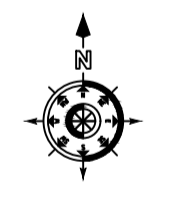
DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5005 Site Layout - Master Sheet

- LEGEND:**
- Planning Application Boundary
 - Turbine Hardstand
 - Access Track (5m Wide)
 - Borrow Pit / Deposition Area
 - Existing Contour



Borrow Pit / Deposition Area Plan Scale 1 : 1,000

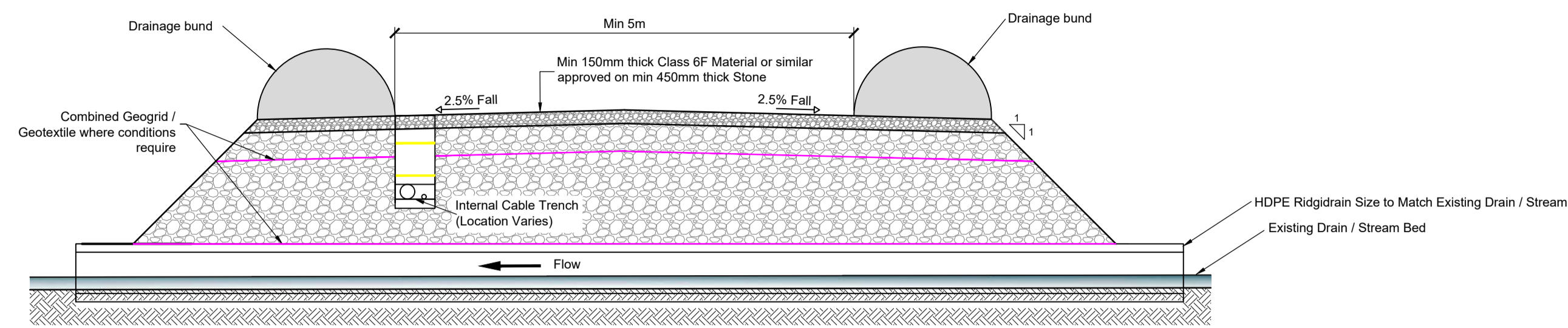
P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Ballycar Wind Farm				
TITLE: Borrow Pit / Material Storage Area Plan and Sections				
CLIENT:				
ENGINEERING AND ENVIRONMENTAL CONSULTANTS CORK TRALEE LONDON LIMERICK mwp.ie				
DRAWN: JK	CHECKED: PC	APPROVED: OH		
PROJECT NUMBER: 22156	DATE: December 2023	SCALE @ A1: As Shown		
STATUS DESCRIPTION: FOR INFORMATION			STATUS: S2	
DRAWING NUMBER: 22156 - MWP - 00 - 00 - DR - C - 5411				REV: P01



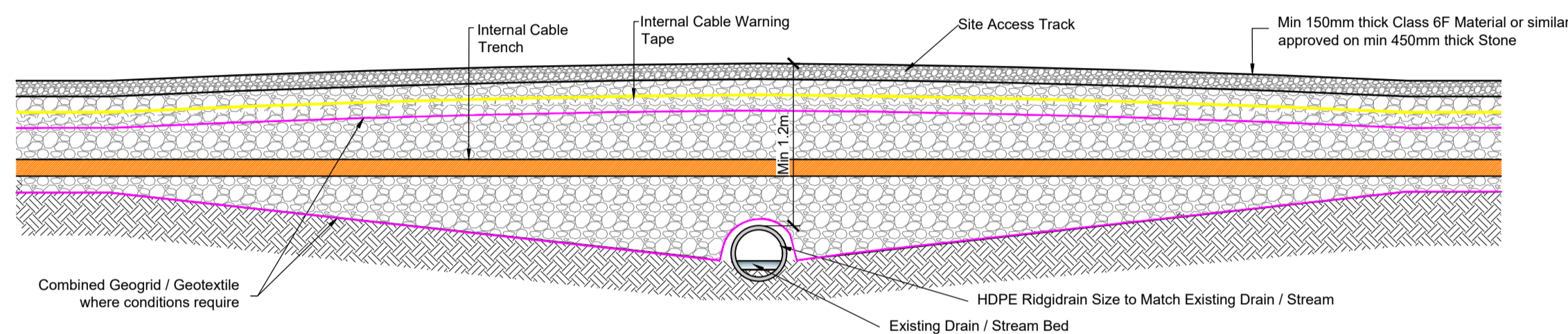
DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY. THIS DRAWING IS COPYRIGHT AND MAY ONLY BE REPRODUCED WITH THE DESIGNERS PERMISSION.

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 - ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD.
 - ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - DRAWINGS ARE NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

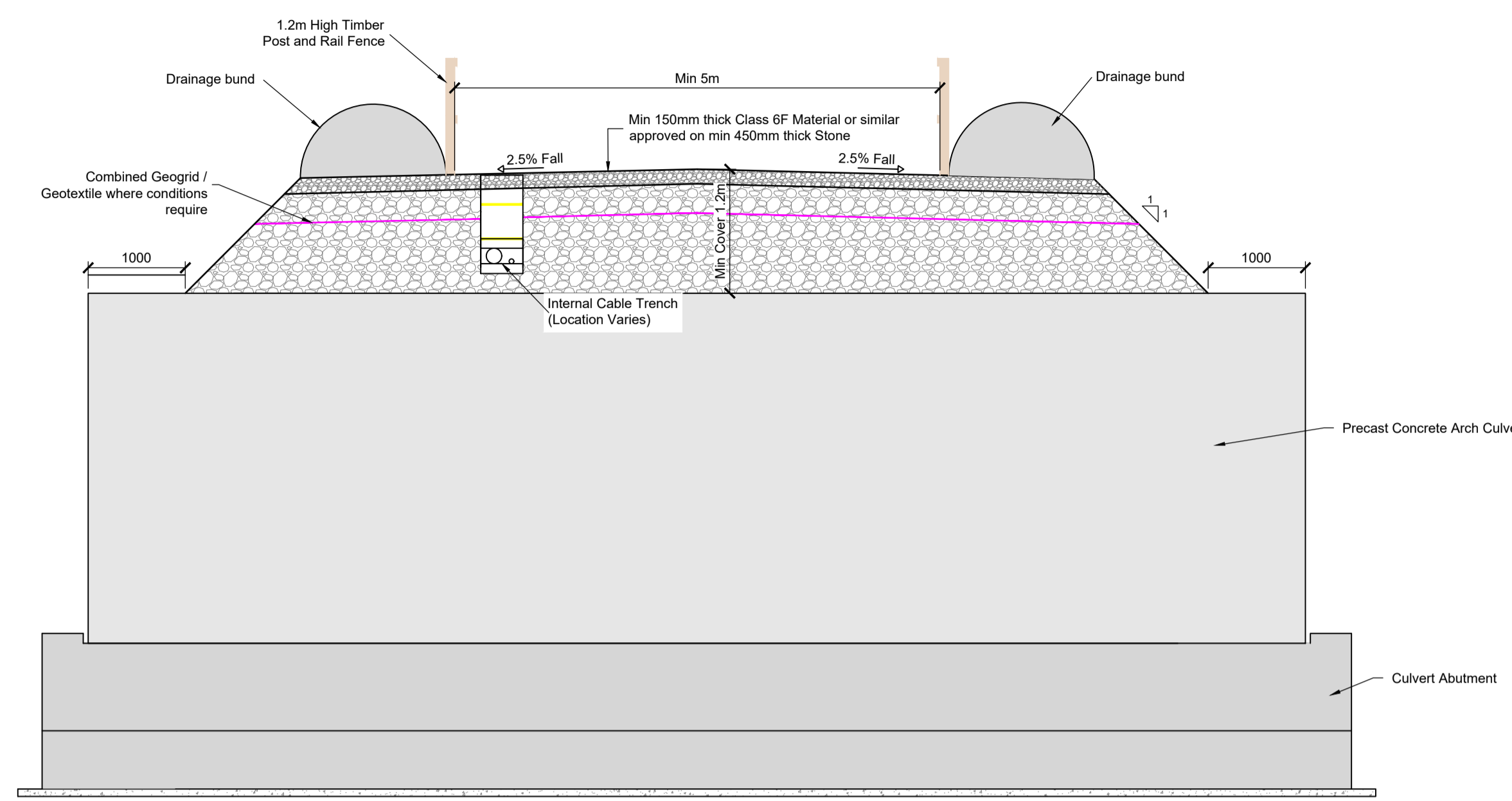
DRAWING REFERENCE:
22156-MWP-00-00-DR-C-5006 Drainage Layout - Master Sheet



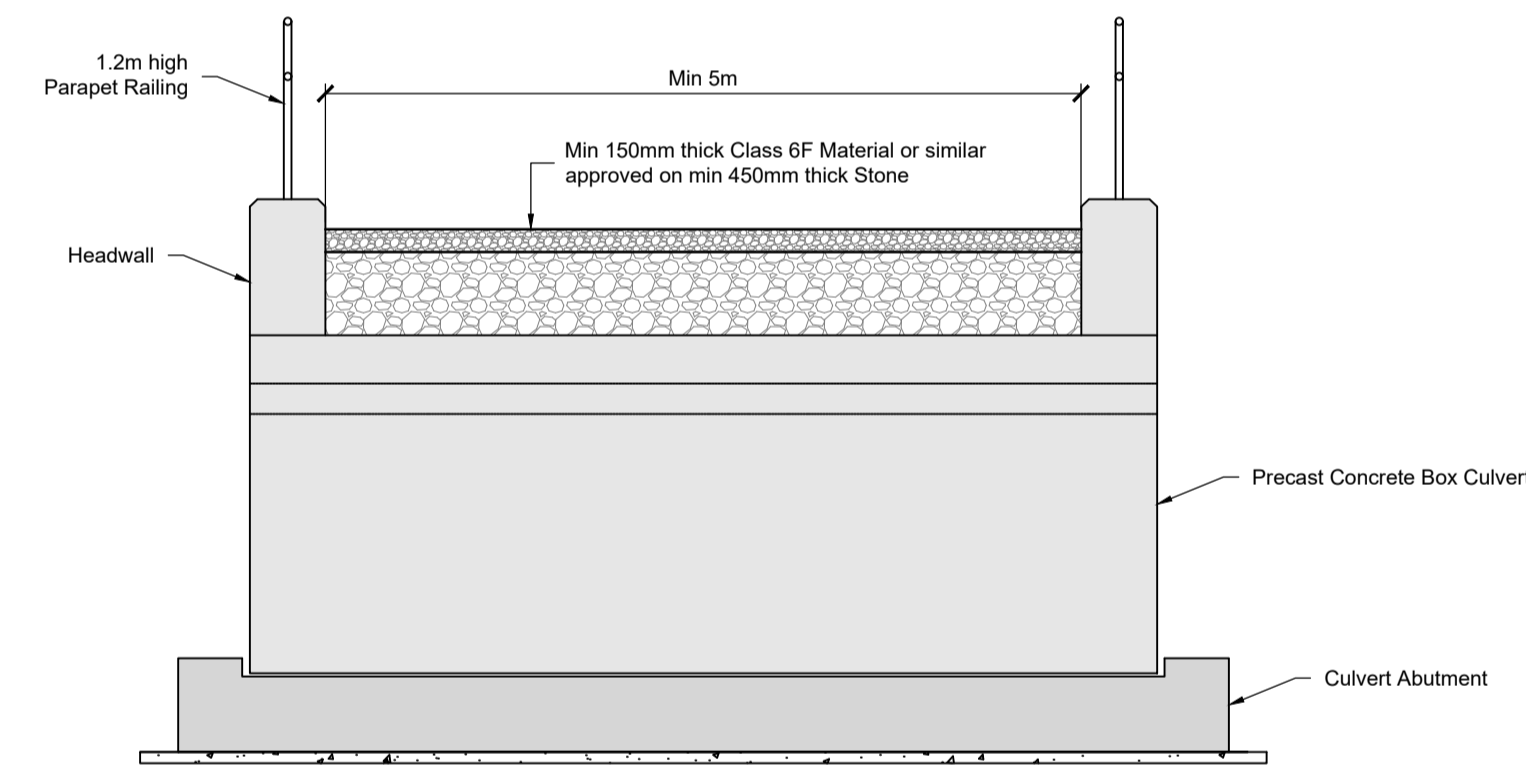
New Land Drain / Stream Crossing Detail - Longitudinal Section Scale 1:50



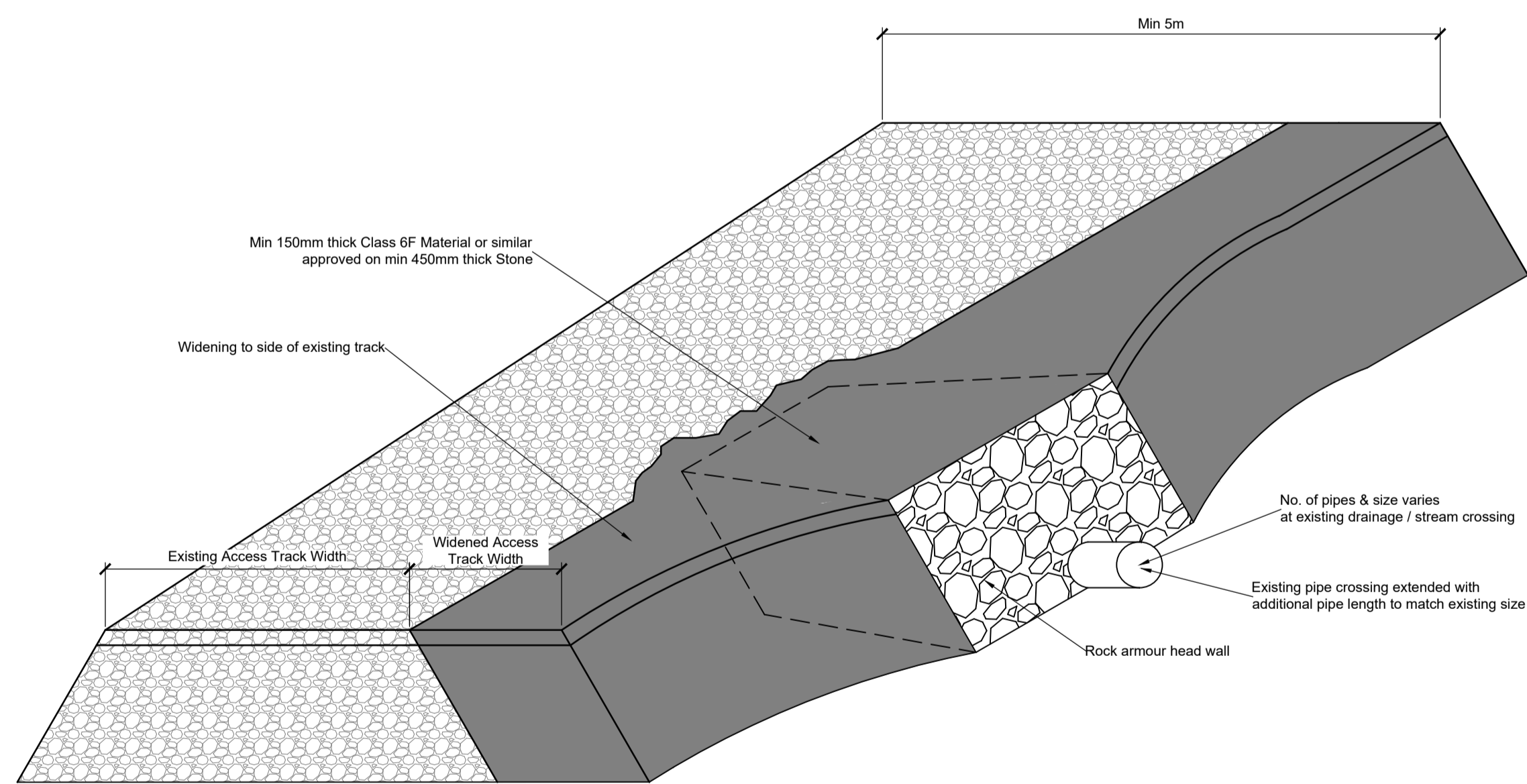
New Land Drain / Stream Crossing Detail - Cross Section Scale 1:50



Section of a Bottomless Arch Culvert Crossing Scale 1:50



Section of a Bottomless Box Culvert Crossing Scale 1:50



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



Bottomless Arch Culvert Crossing

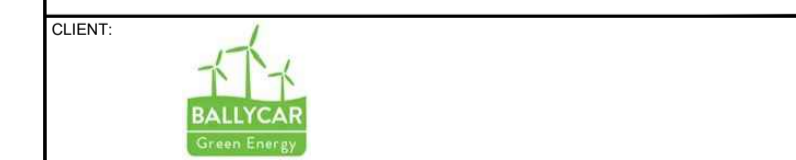


Bottomless Box Culvert Crossing

P01	08.12.23	Issued For Planning	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT:
Ballycar Wind Farm

TITLE:
Watercourse Crossing Details

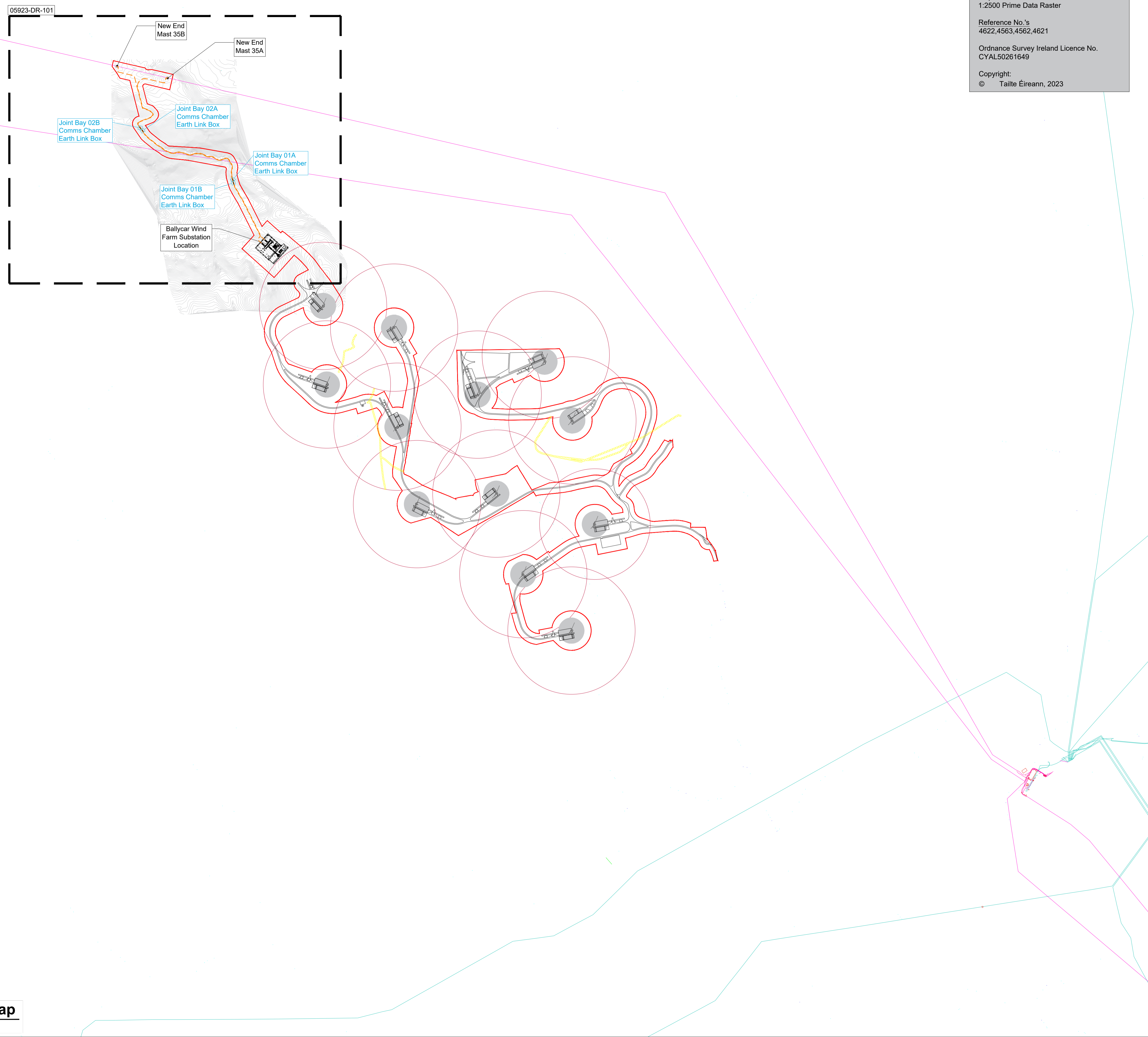
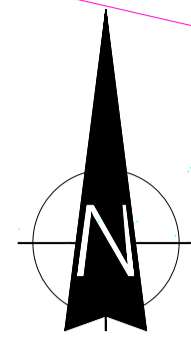


DRAWN:	CHECKED:	APPROVED:
JK	PC	OH

PROJECT NUMBER:	DATE:	SCALE @ A1:
22156	December 2023	As Shown

STATUS DESCRIPTION:	STATUS:
FOR INFORMATION	S2

DRAWING NUMBER:	REV:
22156 - MWP - 00 - 00 - DR - C - 5412	P01



Map Series:
1:2500 Prime Data Raster

Reference No.'s
4622,4563,4562,4621

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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.
 - Drawings are not to be scaled use figured dimensions only.

LEGEND: -

Planning Application Boundary shown thus	
UG Cable Route shown thus (1.5 km)	
Overhead Line & End Mast	
Ballycar WF Turbine Location	
Turbine Falling Distance shown thus (2 x Rotor Diameter)	
Joint Bay Locations shown thus	
Existing ESB OHL & UGC HV Network	
Contours	
Wayleave	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P8	19.01.24	Issued for Planning
P7	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

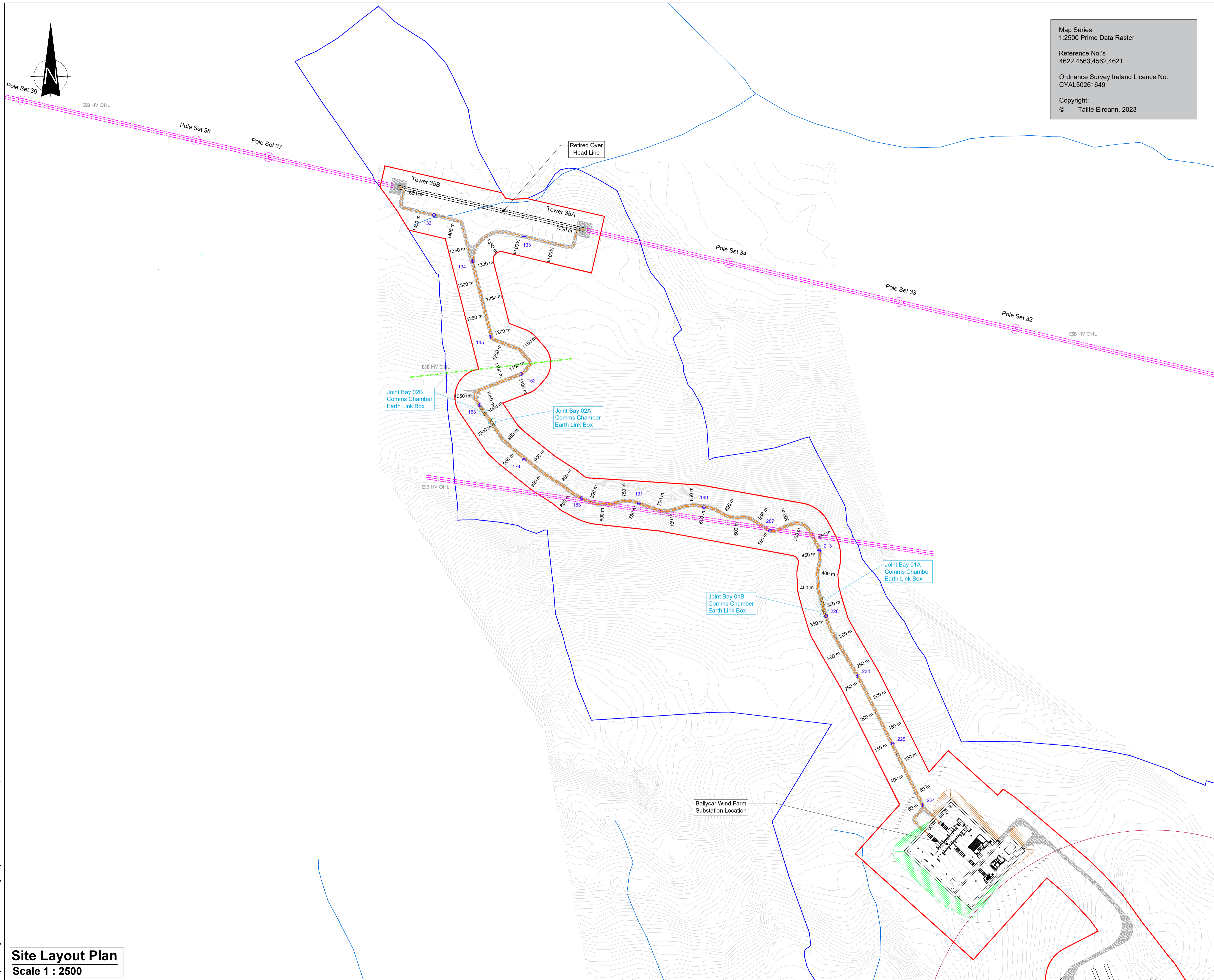
PROJECT NUMBER
05-923

SHEET TITLE
Overall Site Location Map

SHEET NUMBER
05923-DR-100

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

Overall Site Location Map
Scale 1 : 10000



Map Series:
1:2500 Prime Data Raster

Reference No.'s
4622,4563,4562,4621

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Head Office
Beenrigh,
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.
 - 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	
Turbine Falling Distance shown thus (2 x Rotor Diameter)	
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	
Existing Rivers & Streams	
Cut Volume	
Fill Volume	
Access track	
Contours	

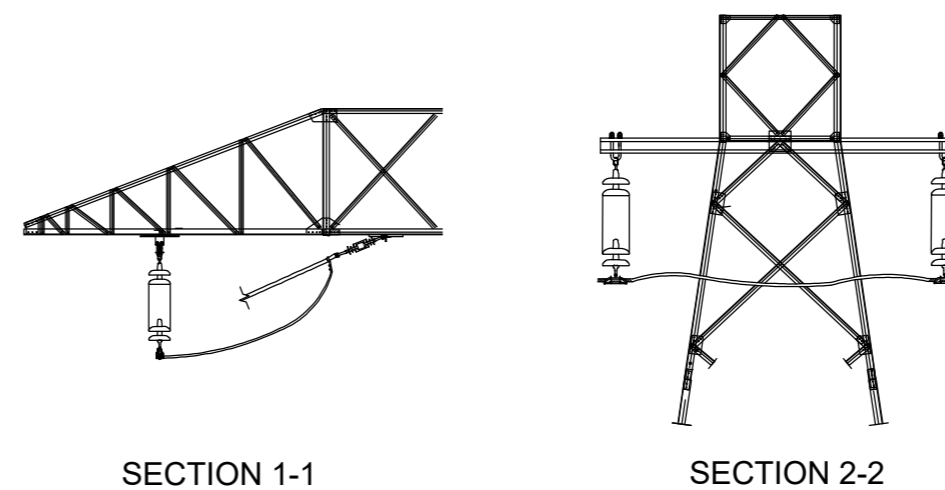
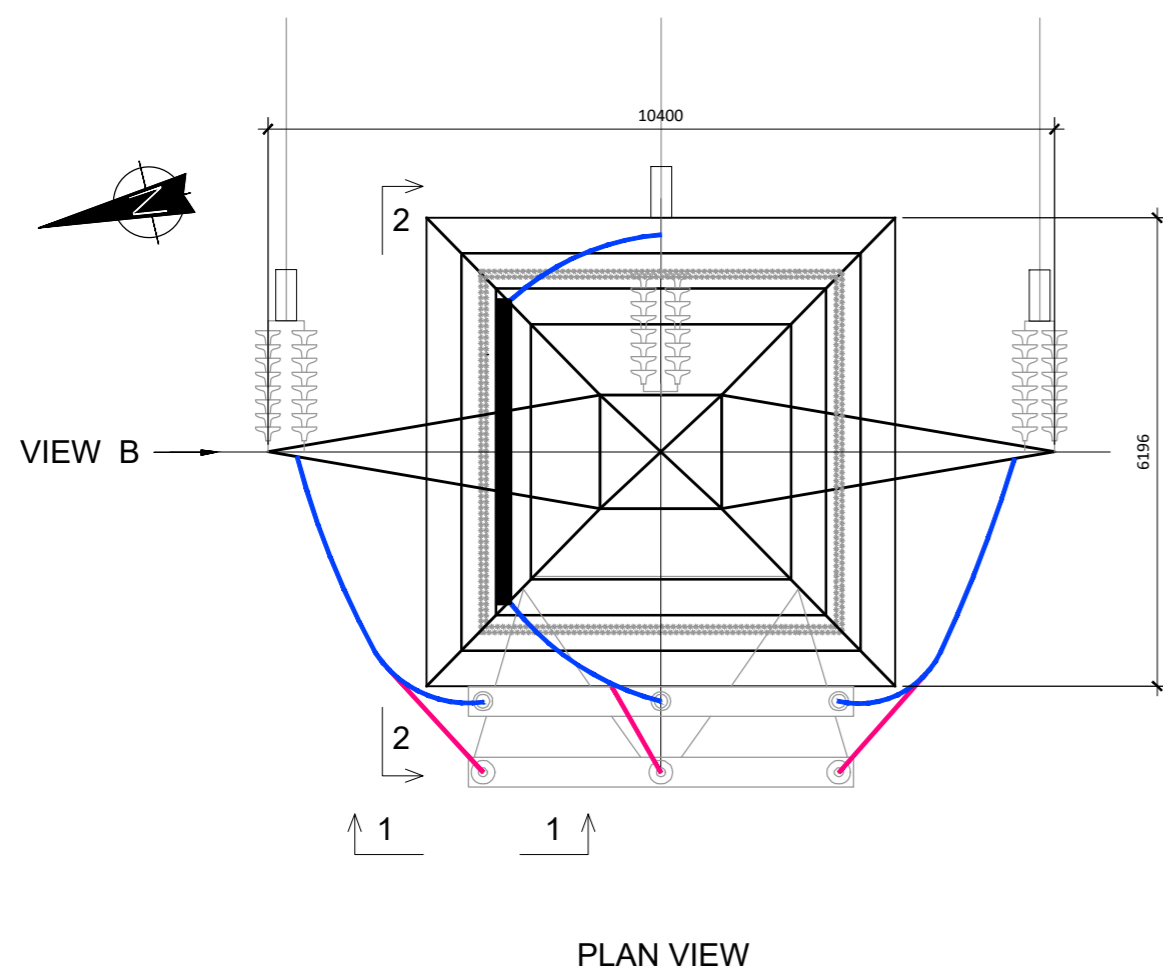
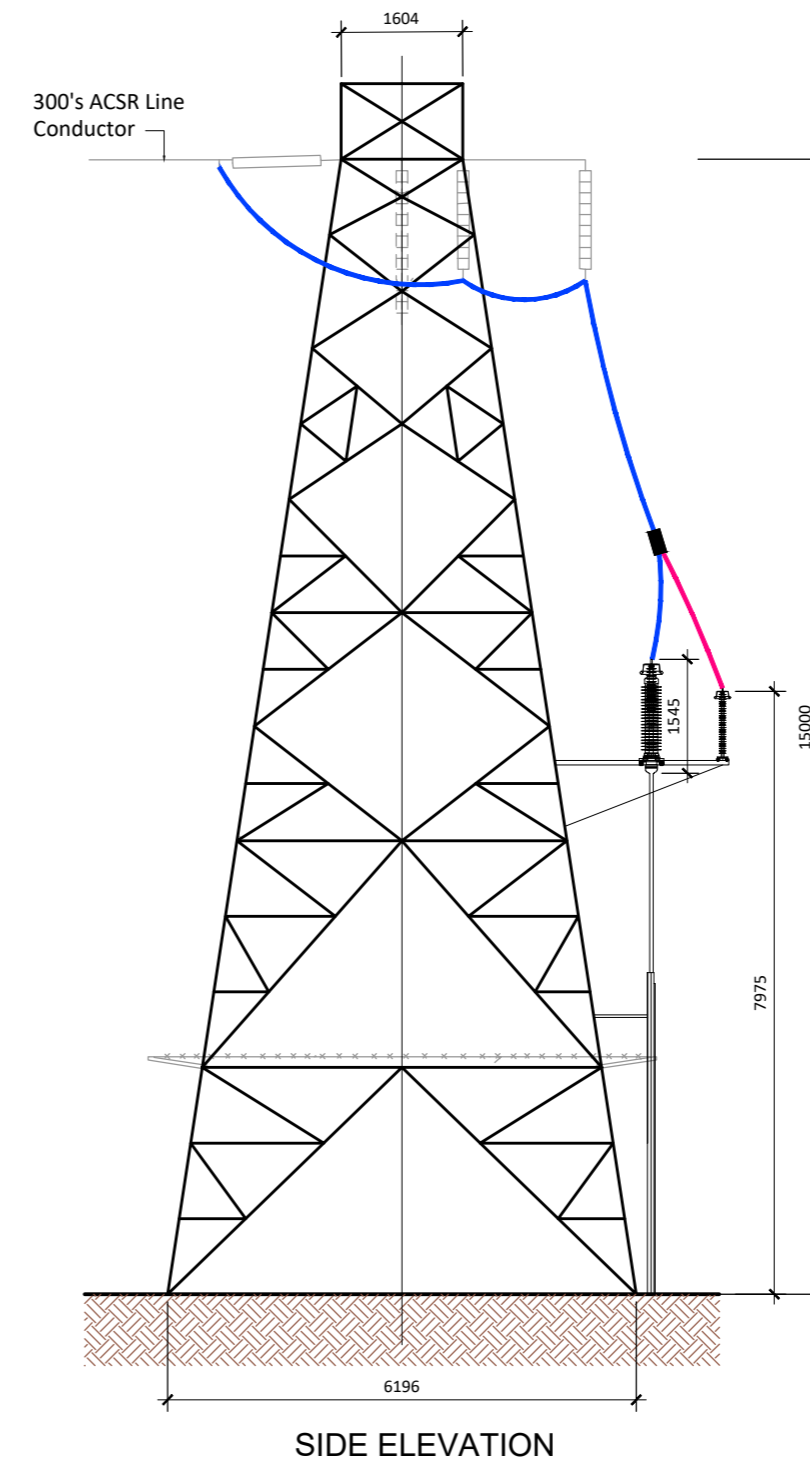
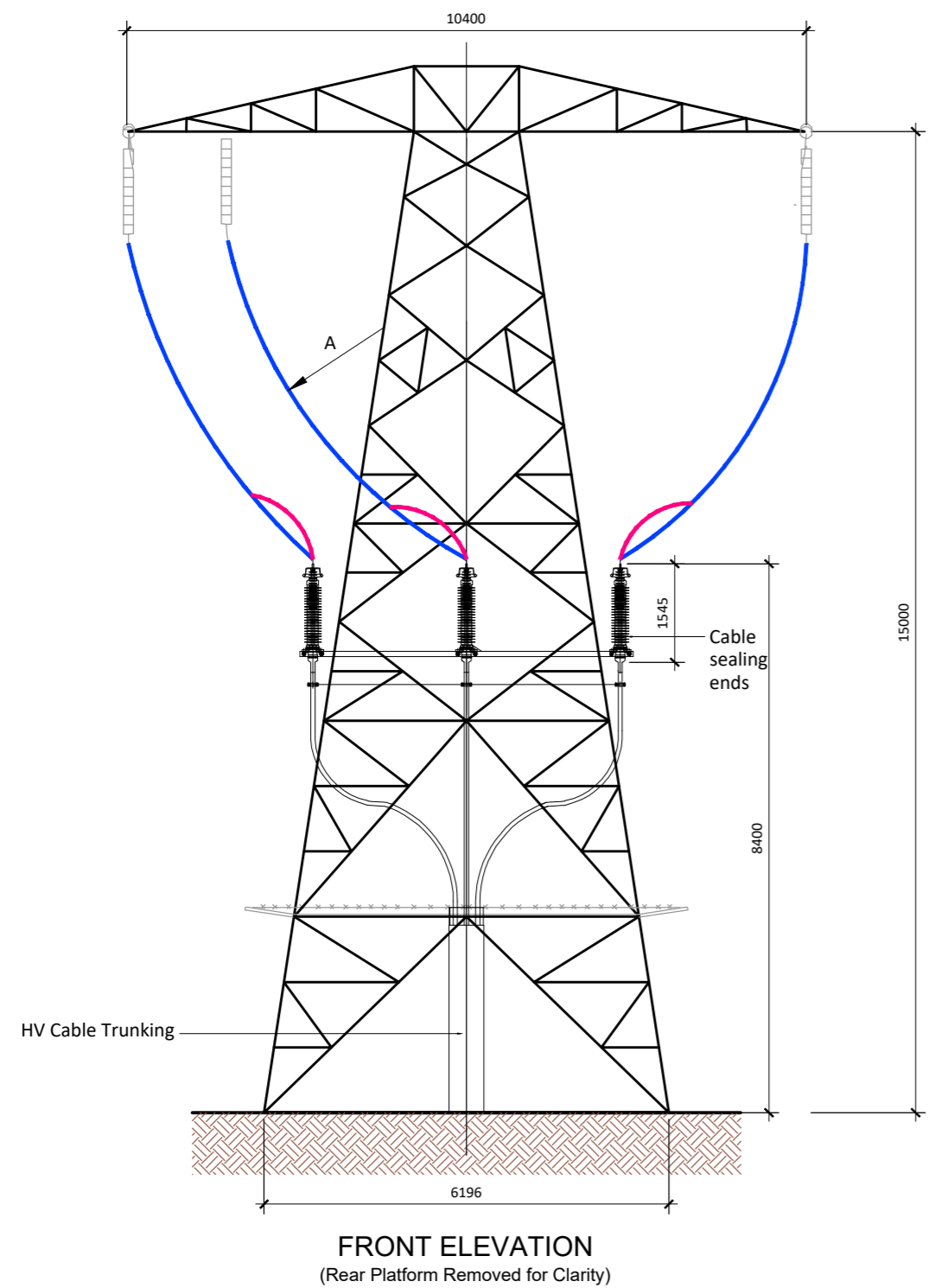
ISSUE/REVISION

I/R	DATE	DESCRIPTION
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

PROJECT NUMBER
05-923

SHEET TITLE
Site Layout Plan

SHEET NUMBER
05923-DR-101



PROJECT

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

CLIENT



CONSULTANTS

NOTES: -

LEGEND: -

ISSUE/REVISION

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

PROJECT NUMBER

05-923

SHEET TITLE

End Mast Details

SHEET NUMBER

05923-DR-107

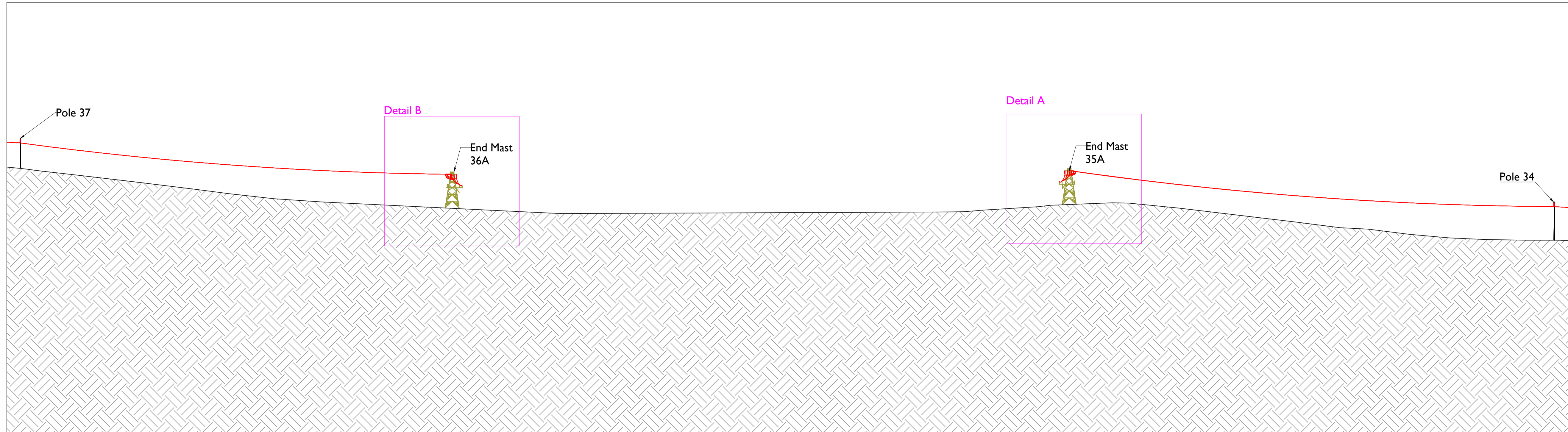
PROJECT

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

CLIENT

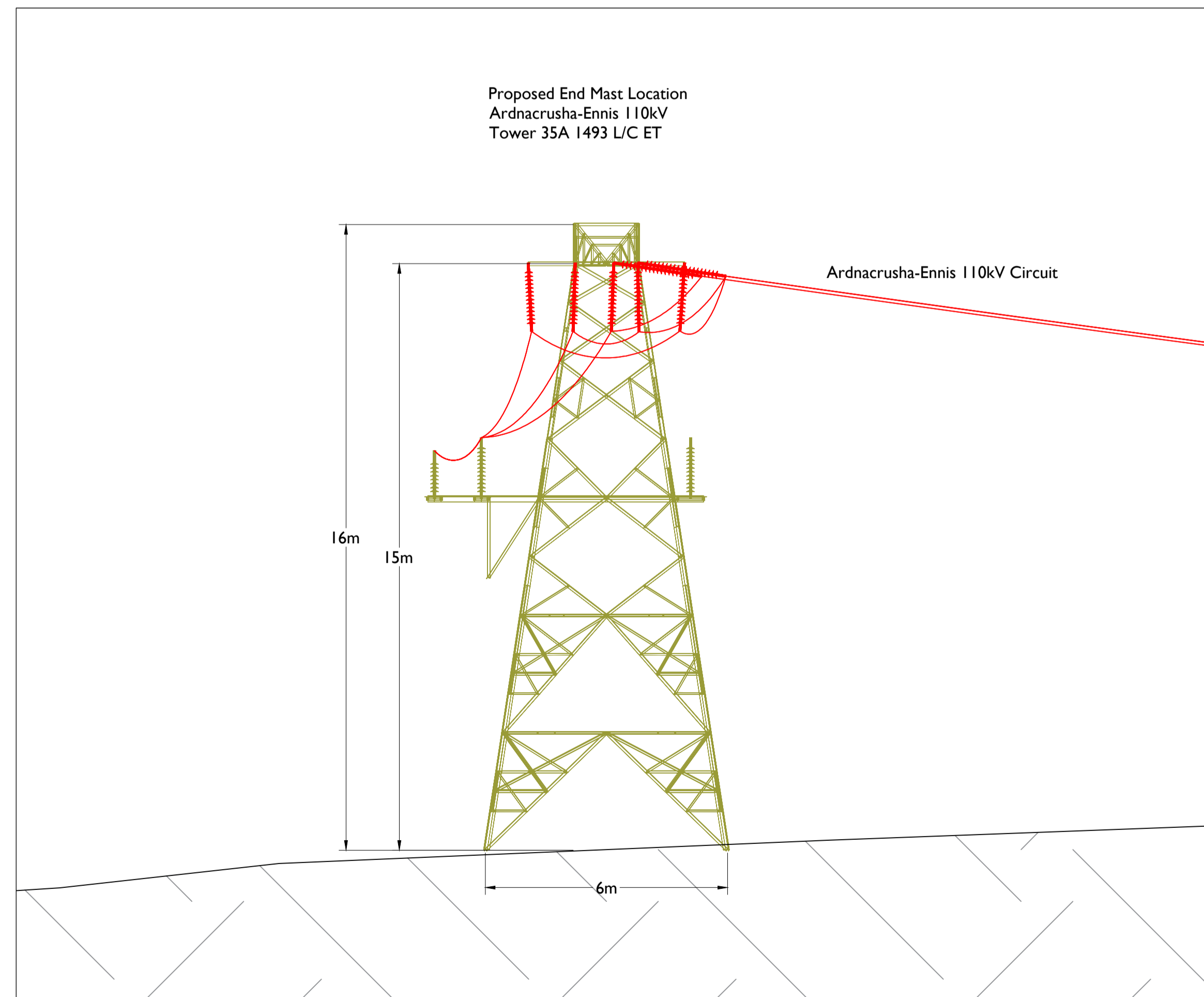


CONSULTANTS

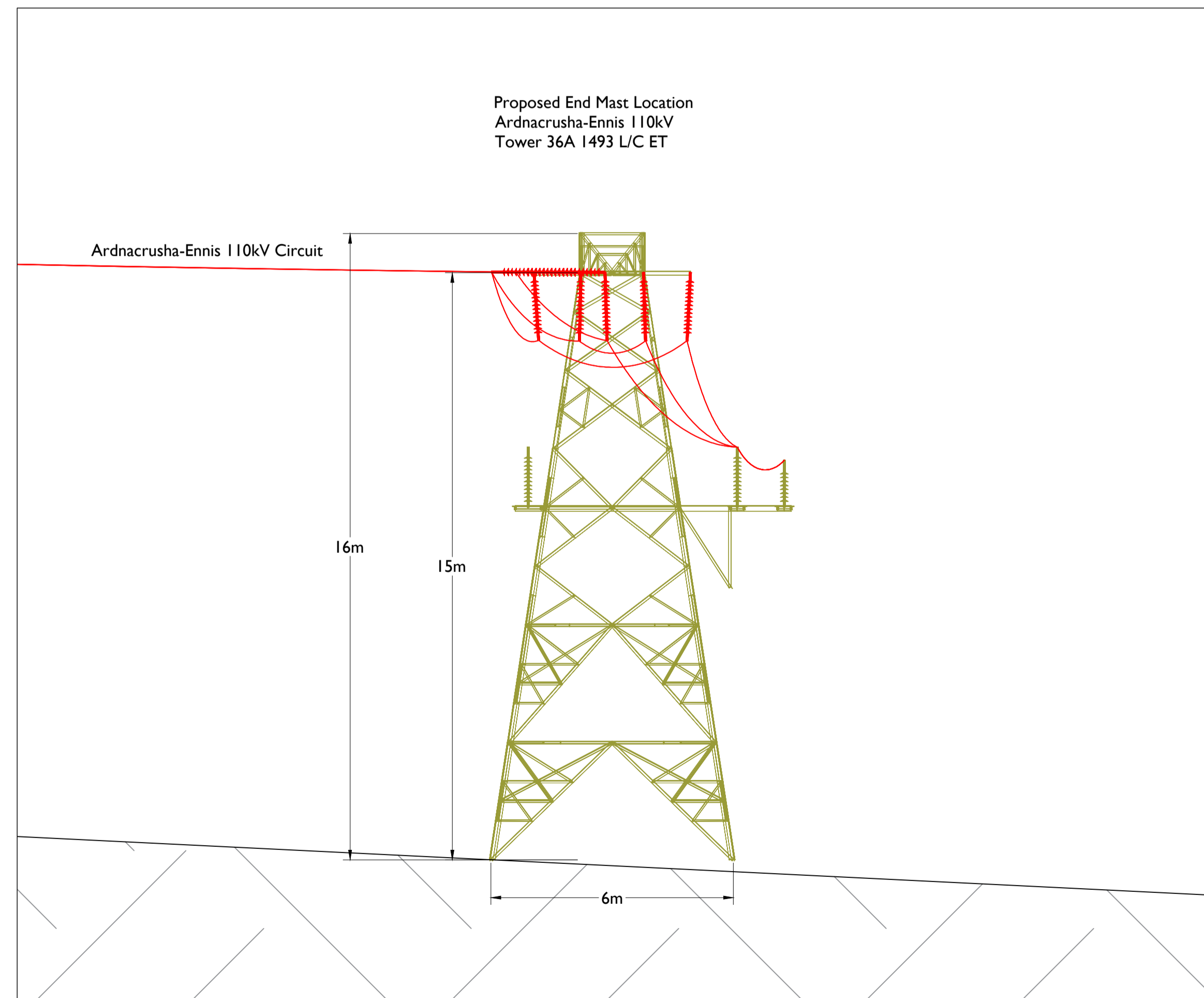


Elevation Through Proposed End Mast Locations

Scale : 1:2000



Detail A
 Scale: 1:100



Detail B
 Scale: 1:100

NOTES: -

- This drawing is to be read in conjunction 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

NO	DATE	DESCRIPTION
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

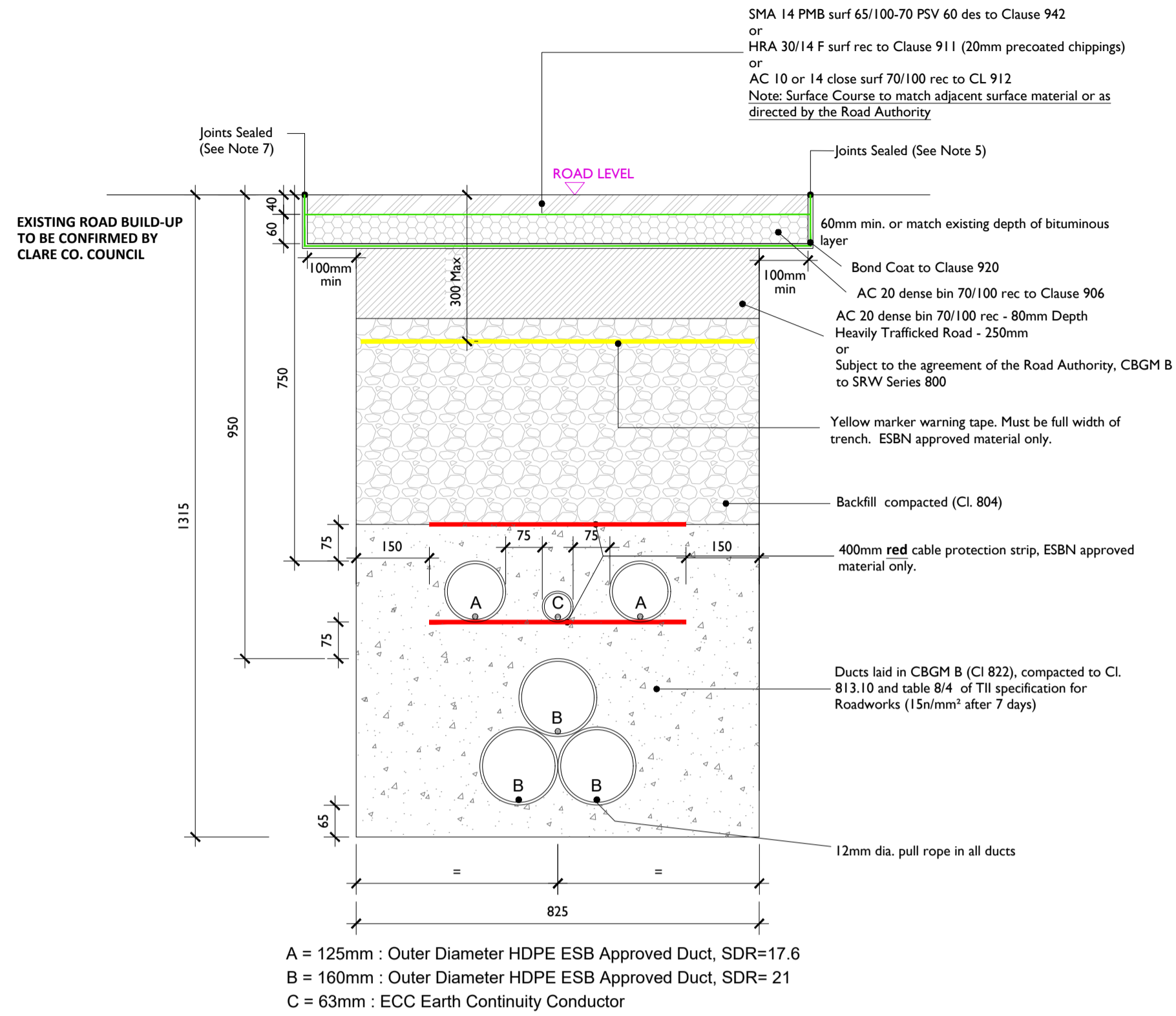
Elevation View of Proposed
 Tower Locations

SHEET NUMBER

05923-DR-108

Permanent Reinstatement

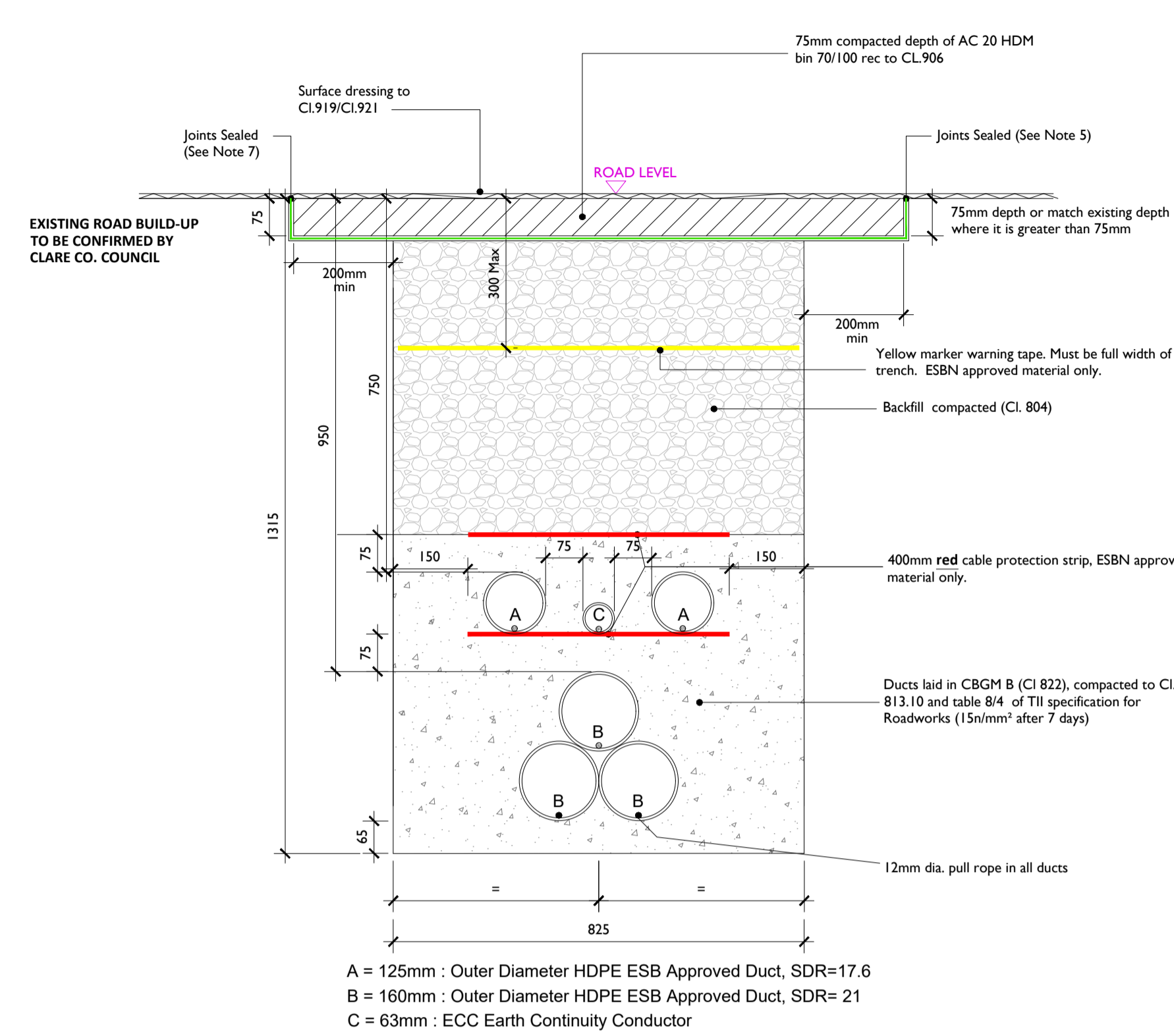
Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD4



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

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



Typical Section Through Permanent Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

SCALE 1:10

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

- Note:
- 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.
 - All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 - 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 a vibrating roller.
 - 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 shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S.594987 prior to application of bituminous materials.
 - For roads without asphalt concrete surface (e.g. may be CI.804 with double surface dressing), the road authority may at its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
 - On highly trafficked roads services must have a minimum cover of 750mm.
 - Where required by the Road authority the trench may be reinstated with a Cement Bound Granular Material.

PROJECT

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

CLIENT



CONSULTANTS

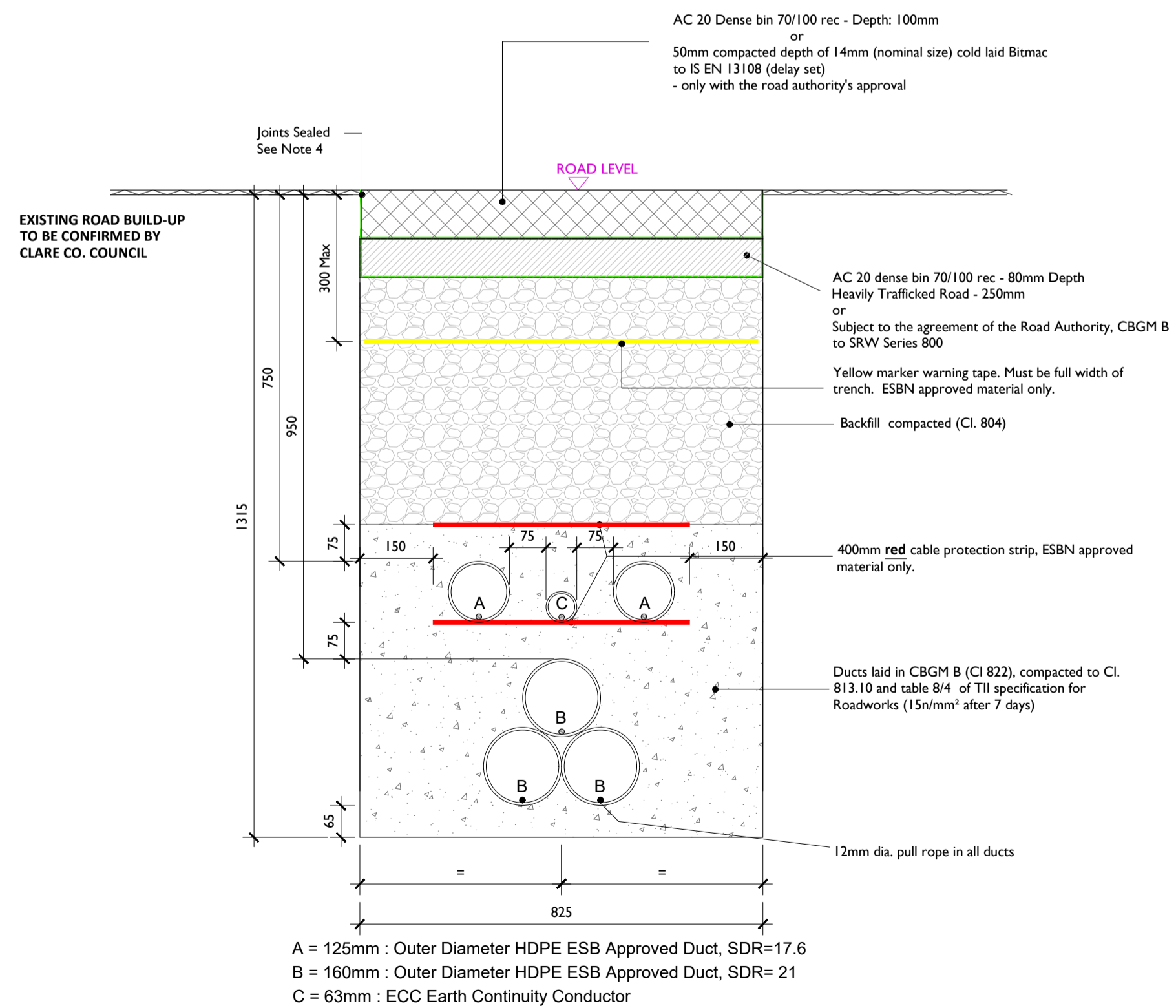
NOTES: -

- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimeters, unless noted otherwise.
- 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: -

Temporary Reinstatement

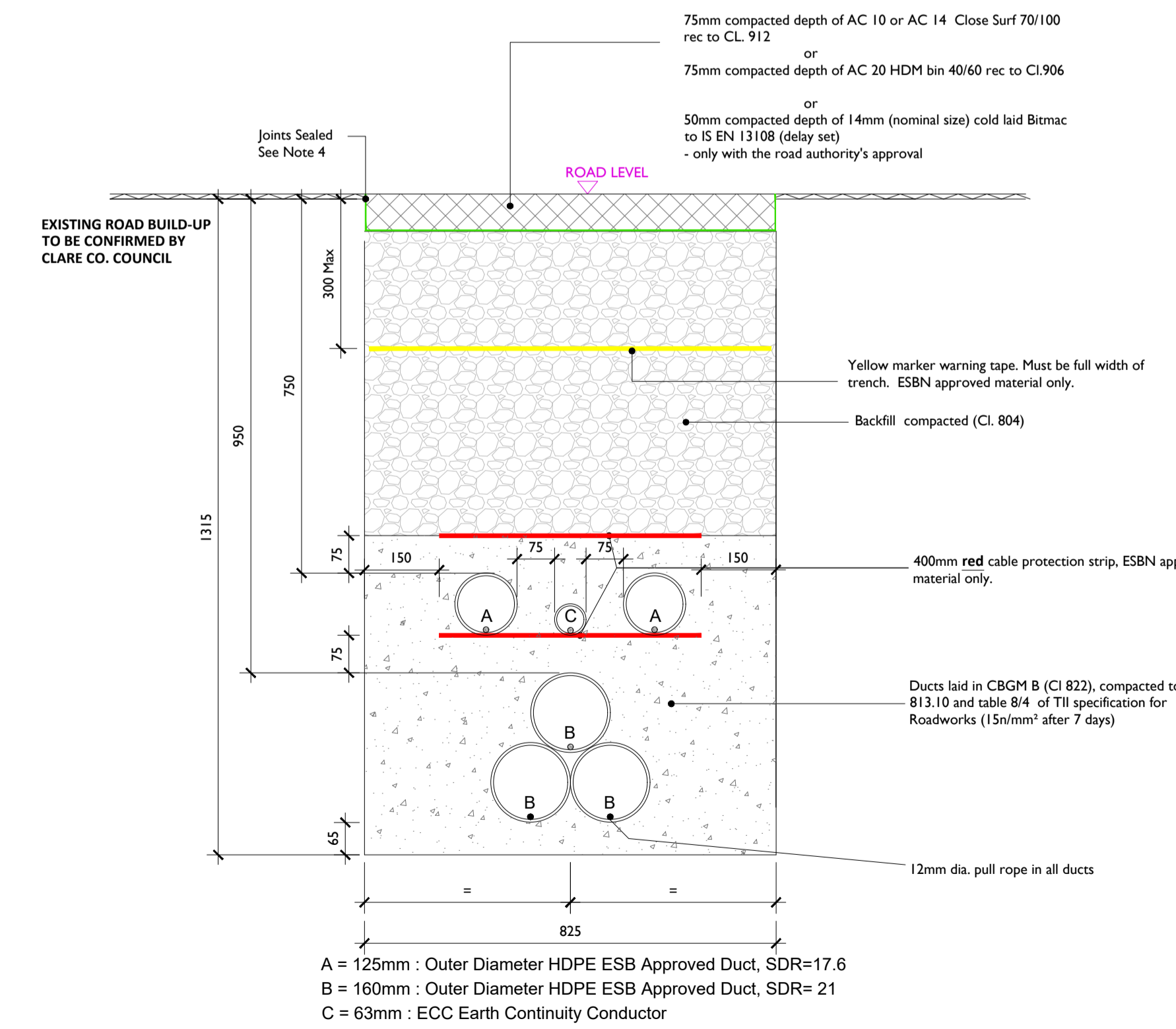
Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Dressed Rural Unbound Roadway

SCALE 1:10

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

- Note:
- 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.
 - All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
 - Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
 - Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous materials.
 - Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
 - Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
 - Temporary Road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks).
 - 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 determined by the Road Authority.

ISSUE/REVISION

NO.	DATE	DESCRIPTION
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

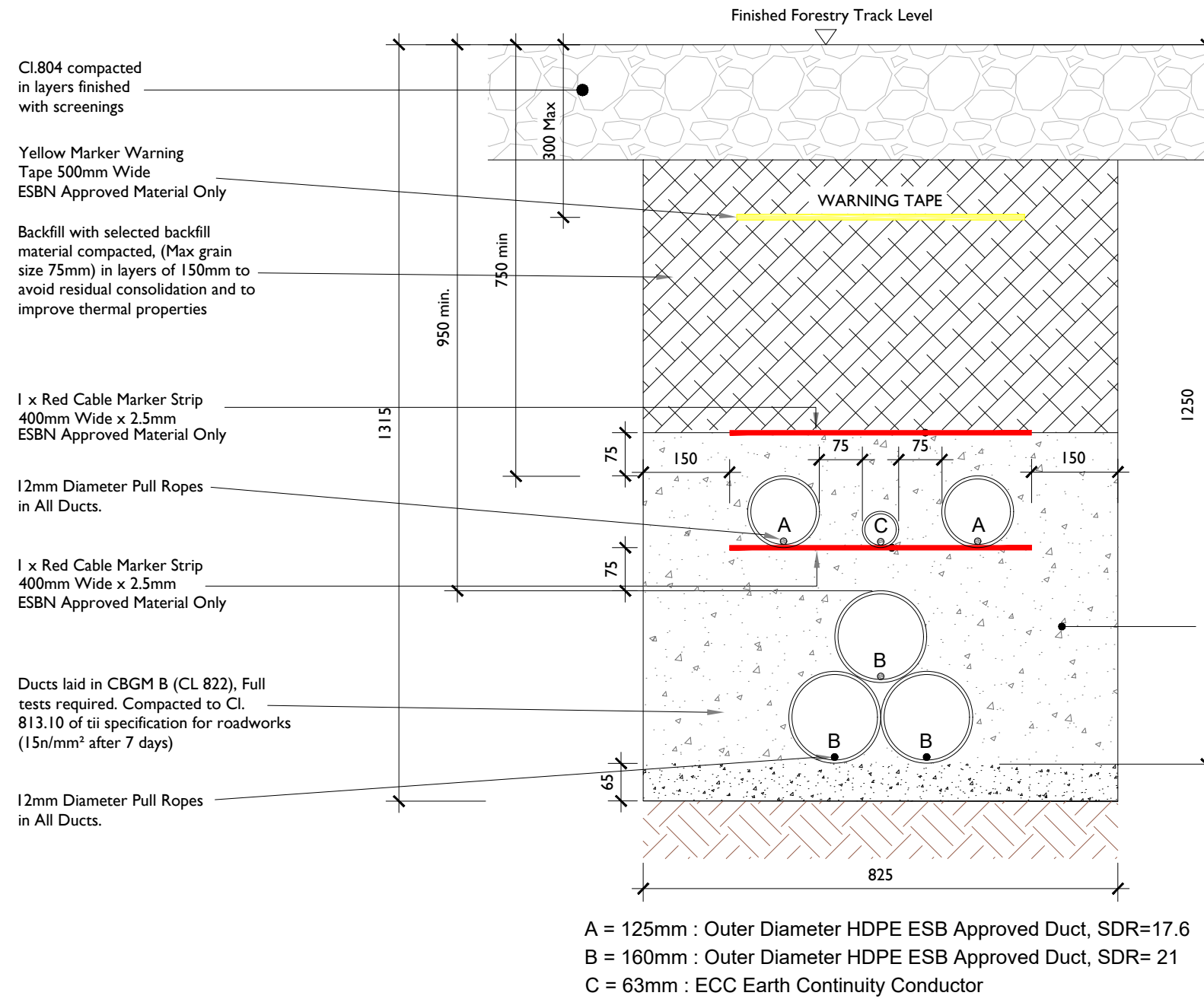
05-923

SHEET TITLE

Typical Ducting Through
 Regional / Local Roadways

SHEET NUMBER

05923-DR-110



Ducting Through Forestry Track

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 dimensions only

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNERS REQUIREMENTS



Head Office
 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

CLIENT



PROJECT

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

PROJECT NUMBER
 05-923

SHEET NUMBER
 05923-DR-111

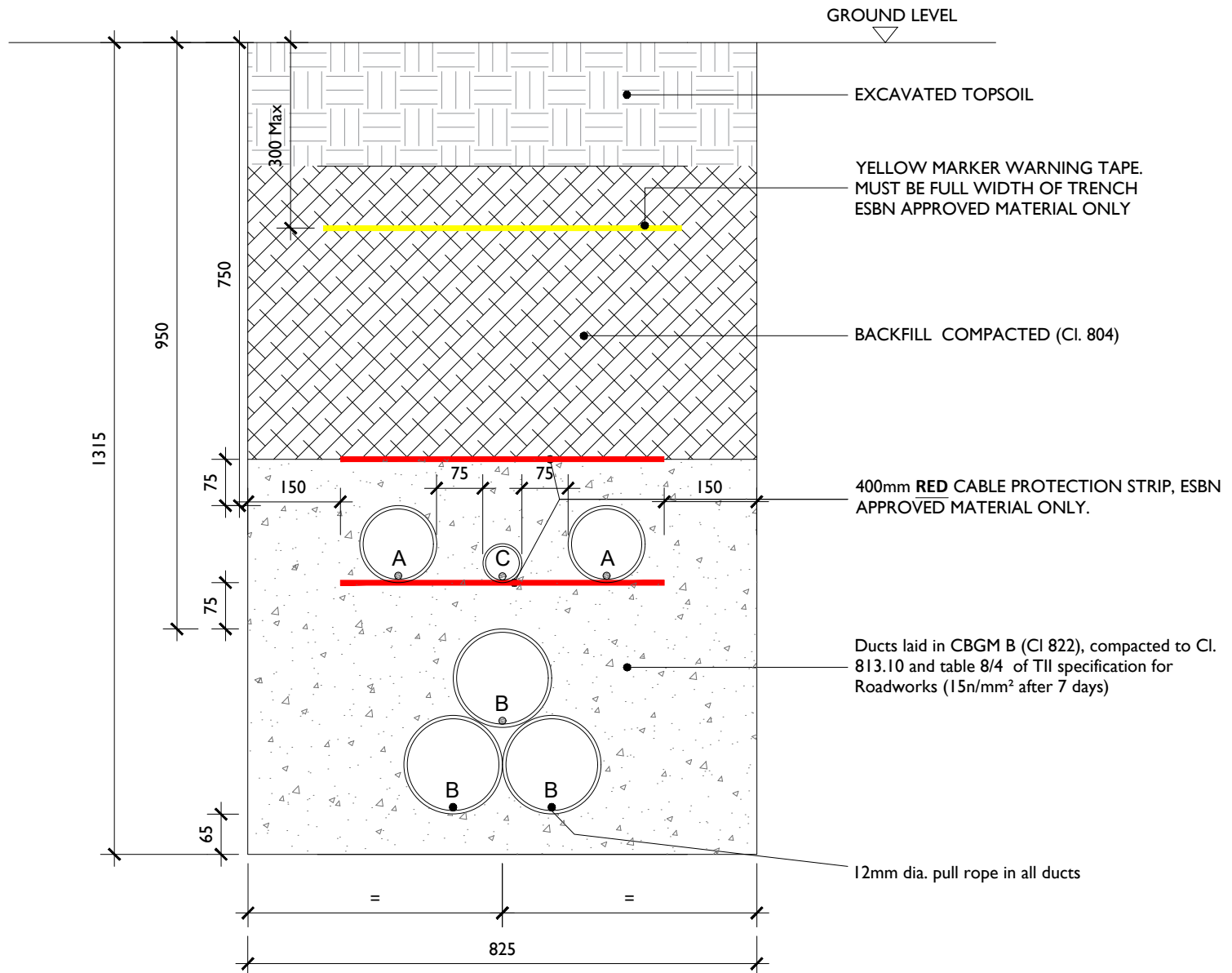
SHEET TITLE

Ducting through Forestry Track

DRAWING STATUS
 For Planning

ISSUE/REVISION

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



A = 125mm : Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm : ECC Earth Continuity Conductor

Typical Section Through Private Lands

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 dimensions only

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNER REQUIREMENTS

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD14

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

- NOTES:
1. 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 40/40 GEOGRID	
TENSAR Tx160 GEOGRID	
GEOTEXTILE	
BASE WEARING COURSE	
PEAT COMPOSITION	
EXISTING MATERIAL	
NEW ROAD BUILD UP MATERIAL	

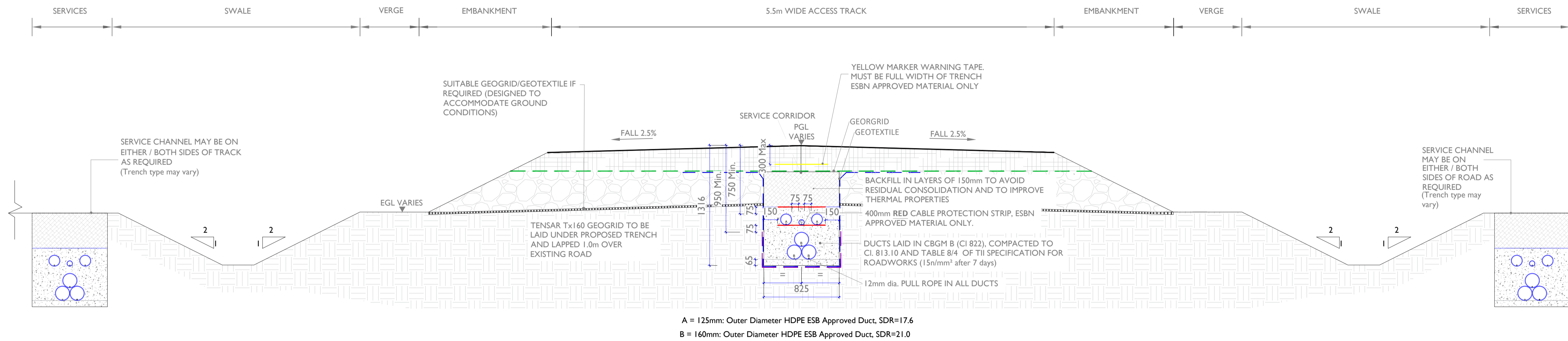
PROJECT

Ballycar Wind Farm 110kV UGC Grid Connection

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CABLE TRENCH SECTION

Scale: 1:25

- 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







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

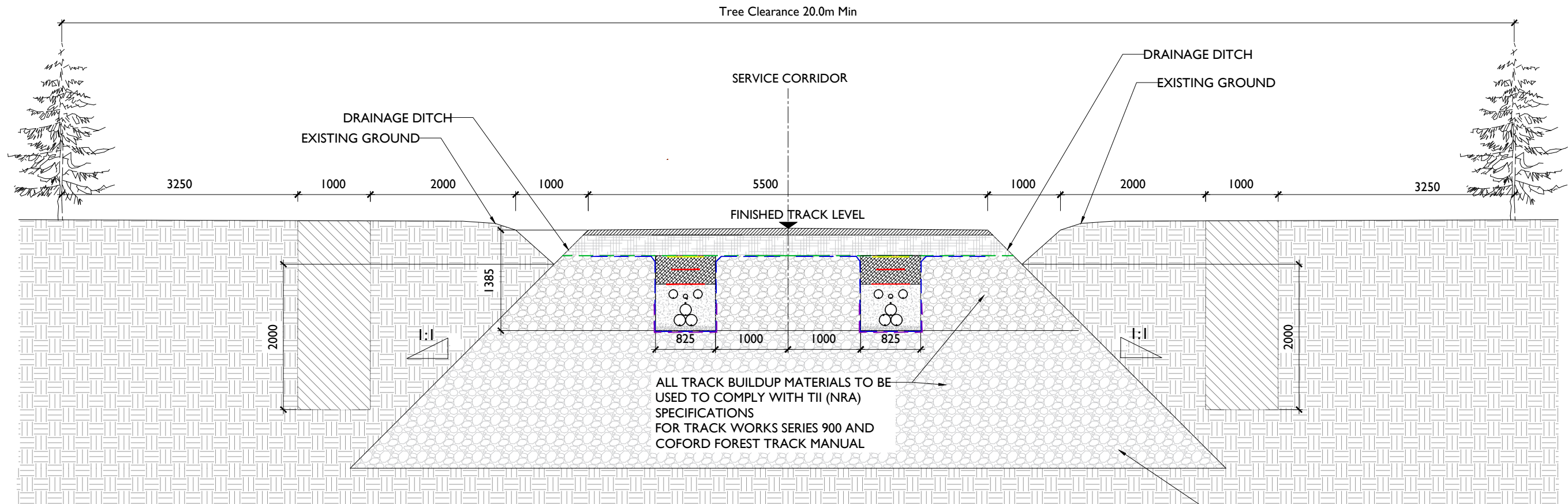
PROJECT NUMBER
05-923

SHEET TITLE
Typical 110kV Ducting through Existing Floating Track

SHEET NUMBER
05923-DR-113

LEGEND:

SECUGRID 40/40 GEOGRID	
TENSAR Tx160 GEOGRID	
GEOTEXTILE	
BASE WEARING COURSE	
EXISTING MATERIAL	
NEW TRACK BUILD UP MATERIAL	



NOTE: CABLE LOCATION SHOWN ARE INDICATIVE AND SUBJECT TO CHANGE DURING DETAIL DESIGN

THERMAL RESISTIVITY OF BUILD-UP MATERIAL TO BE MAXIMUM 1.2km/W

Forestry Fire-Break Track Section

Scale : 1:30

Note:

1. This drawing is subject to planning approval and should not be used for construction.
2. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
3. Dimensions are in millimeters, unless noted otherwise.
4. Drawings are not to be scaled use figured dimensions only.
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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 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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PROJECT

Ballycar Wind Farm
 110kV UGC Grid Connection

PROJECT NUMBER
 05-923

SHEET NUMBER
 05923-DR-115

SHEET TITLE

Forestry Access Track with Service
 Corridor through existing Fire Break

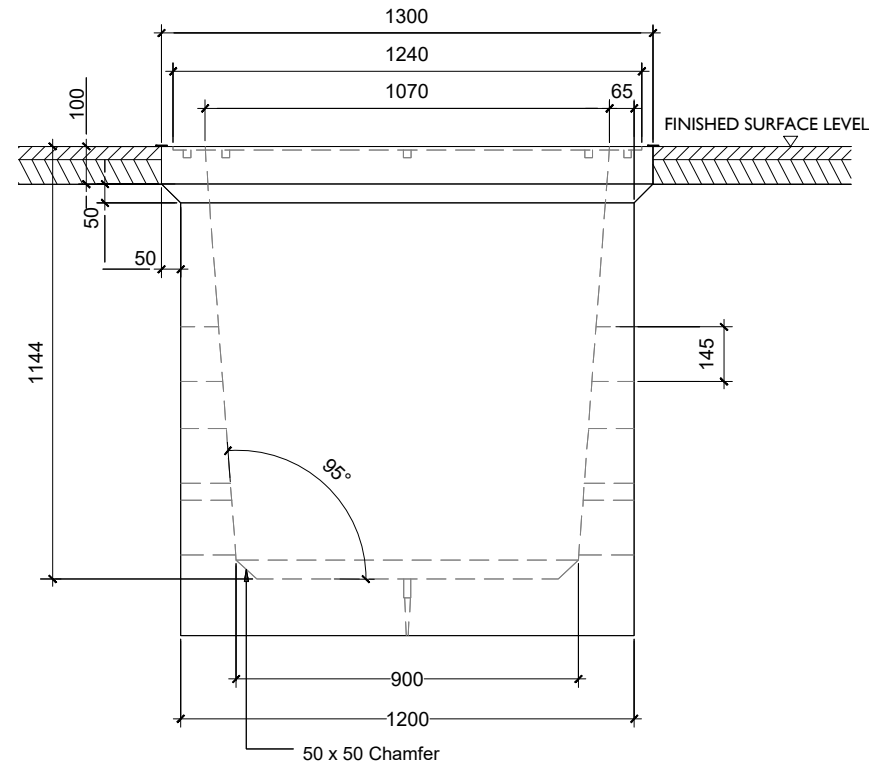
DRAWING STATUS
 For Planning

ISSUE/REVISION

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

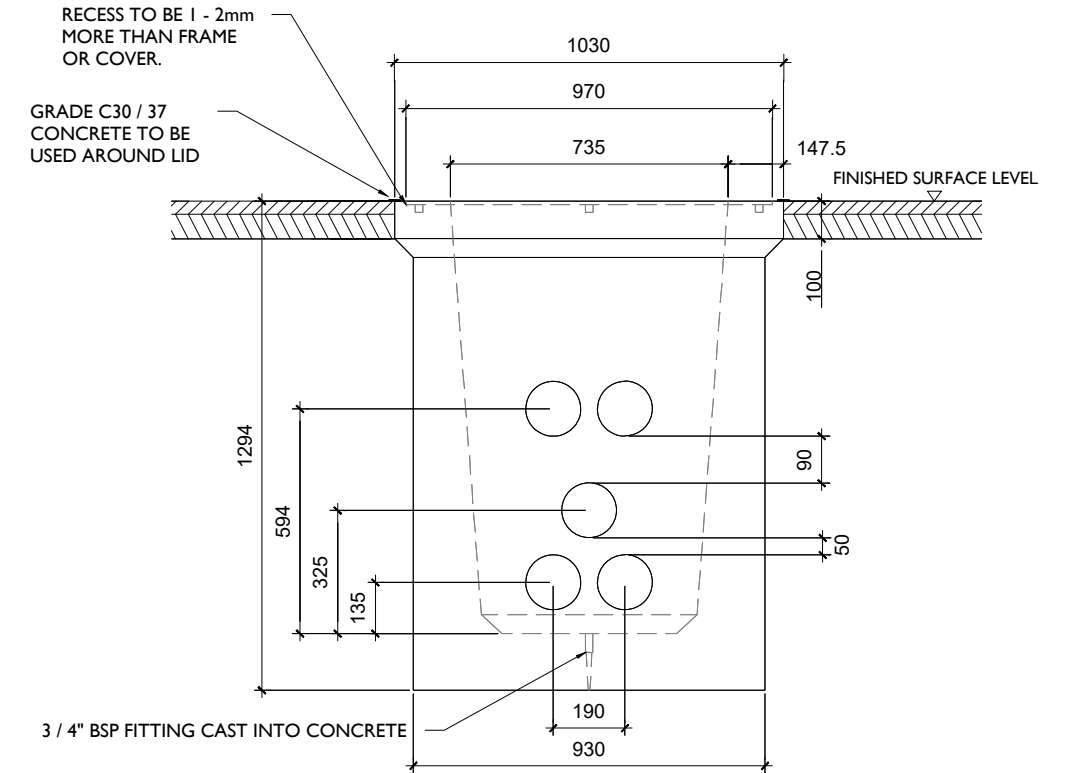
NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED
2. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
3. ENTRANCE AND EXIT DUCTS TO BE IN LINE
4. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
5. REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
6. CARRAIGWAY COVERS AND FRAMES TO BE TO B.S EN 124.
7. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM 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.
9. CONCRETE PRECAST CHAMBER AND COVER TO BE TESTED 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



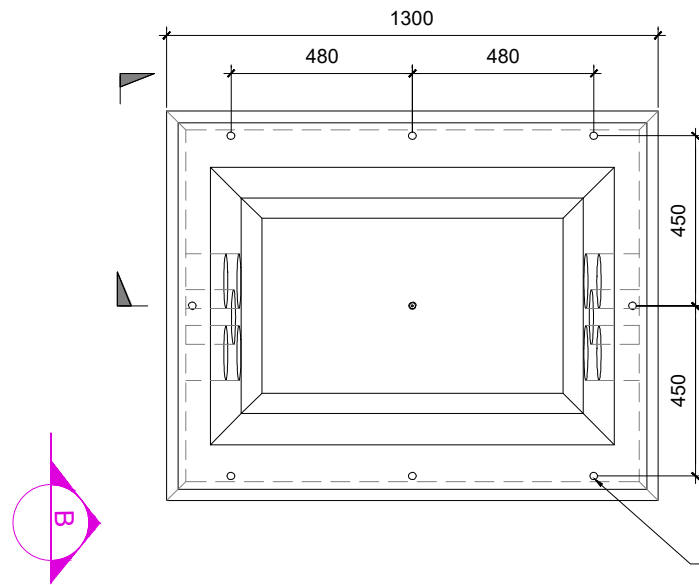
C2 Chamber Detail - Section A

SCALE 1:20



C2 Chamber Detail - Section B

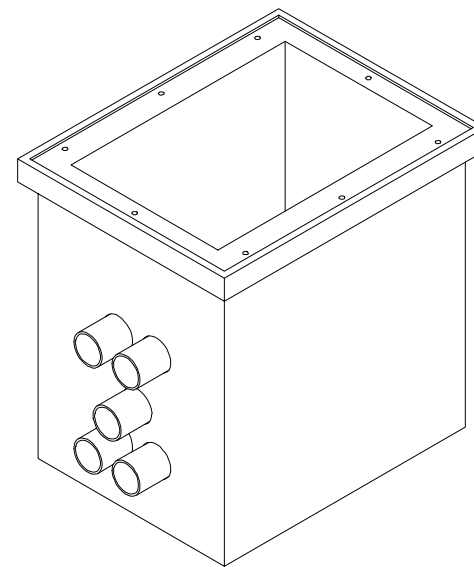
SCALE 1:20



Typical Plan of C2 Chamber

SCALE 1:20

8 HOLES IN THE MOULD TO SUIT
THREADED INSERTS (PLEASE CH
ALIGNMENT OF ALL HOLES)



Isometric : C2 Chamber Arrangement

SCALE 1:20



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Ireland
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110kV UGC Grid Connection

PROJECT NUMBER
05-923

SHEET NUMBER
05923-DR-116

SHEET TITLE

Typical Communications
Chamber Details

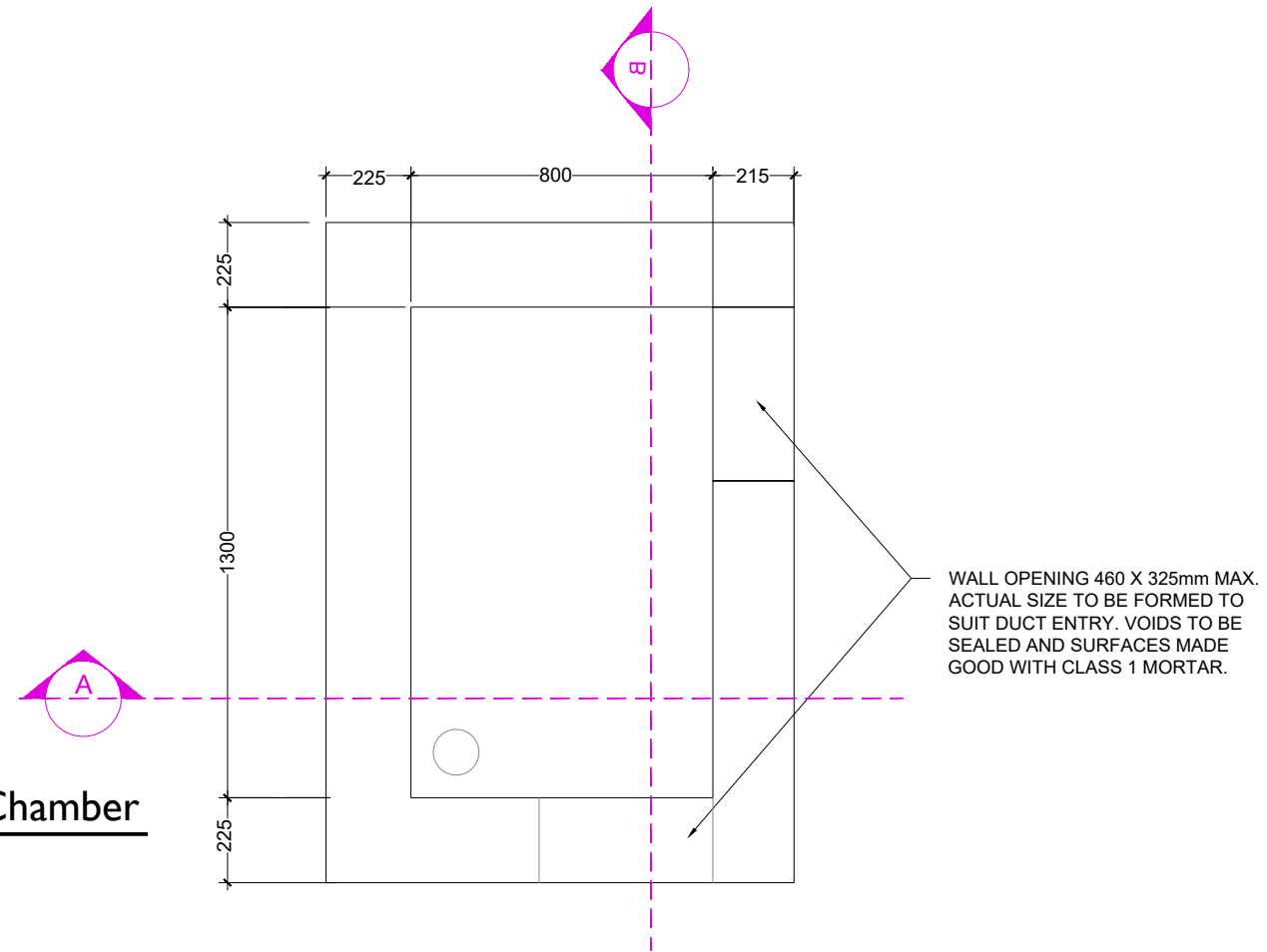
DRAWING STATUS
For Planning

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

NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED
2. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
4. REINFORCED CONCRETE TO BE MINIMUM GRADE C32 / 40, SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY, REFER TO TABLE 6.1 OF THE BRITISH STANDARD 8110.
5. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
6. ALL COVERS SHALL HAVE "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID
7. FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
8. FINAL POSITION OF EARTH LINK CHAMBERS SHALL BE AGREED WITH EIRGRID



Typical Plan of Earth Link Chamber
SCALE 1:20

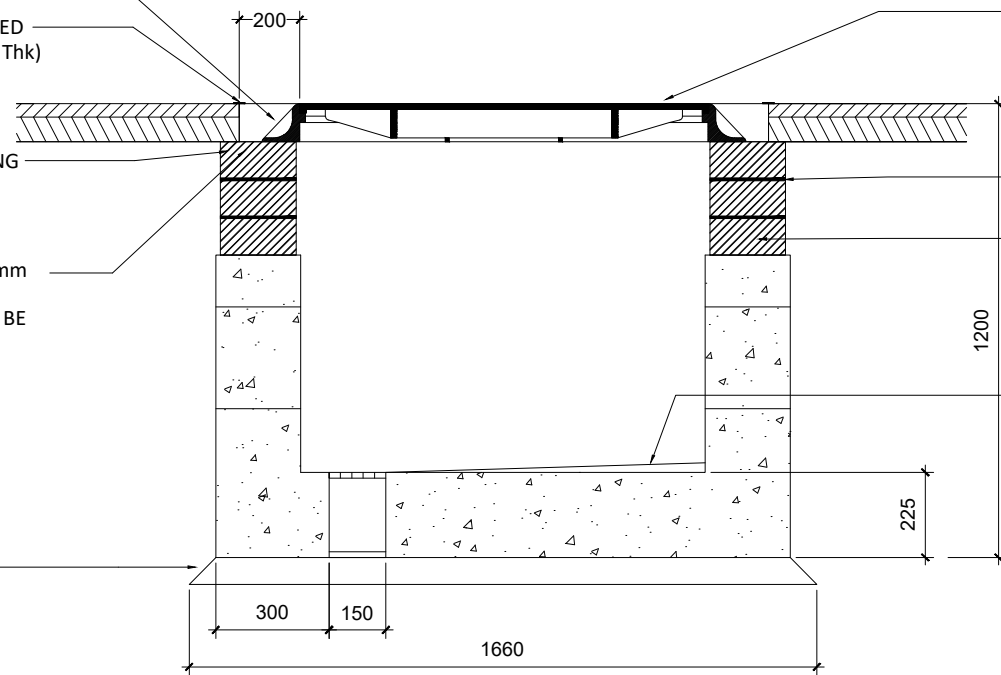
1:3 CEMENT/SAND BED AND HAUNCH TO COVER FRAME

SEAL JOINT WITH HOT BITUMEN TOPPED WITH FINE SAND (25mm WIDE x 3mm Thk)

SAW CUT JOINT IN EXISTING SURFACING AND PAINT WITH BITUMEN BEFORE LAYING MASTIC ASPHALT

MASTIC ASPHALT WITH ROLLED IN 14mm COATED STONE CHIPPINGS IN ACCORDANCE WITH BS1447. AREA TO BE SWEEPED CLEAN OF DEBRIS & WATER BEFORE LAYING MASTIC ASPHALT

50mm THICK CONCRETE BUNDING



Earth Link Chamber - Section A
SCALE 1:20

CAVANAGH 'RHINO' E600 COVER, EDGE OF COVER/GRATING FRAME TO BE COATED WITH BITUMEN BEFORE PLACING OF MASTIC ASPHALT

C16/20 MASS CONCRETE (240KG/m³ MIN. CEMENT CONTENT)

1 - 4 COURSES OF GLASS B ENGINEERING BRICK (AS AGREED WITH ENGINEER) TO I.S. 91 WITH 1:3 CEMENT/SAND MORTAR BEDS, 10mm MAX THICKNESS

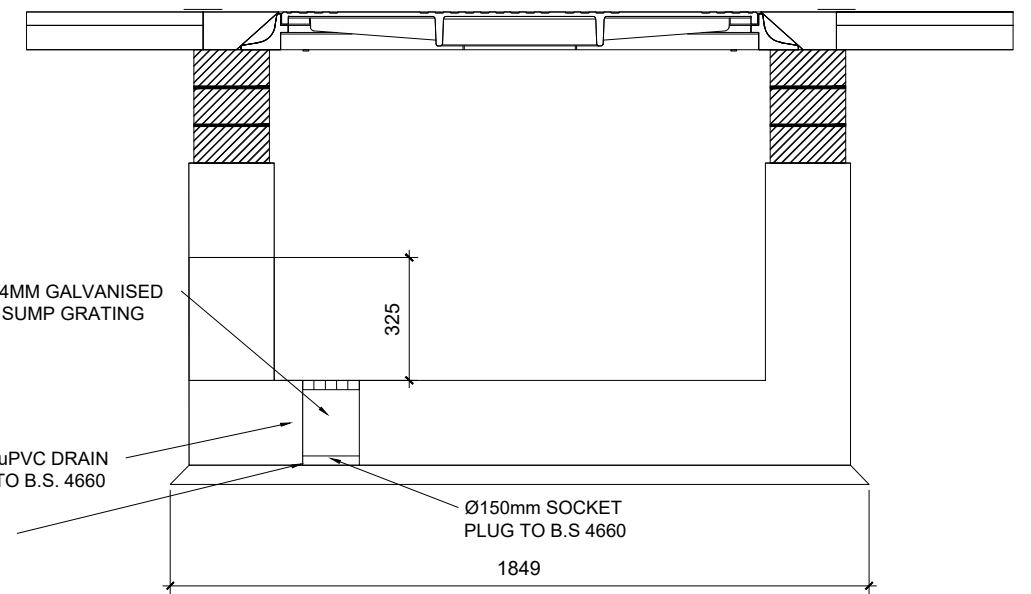
MIN. DEPTH 25mm CEMENT/SAND SCREED (1:3) WITH 25mm FALL TO GRATING

254x254MM GALVANISED STEEL SUMP GRATING

Ø150 uPVC DRAIN PIPE TO B.S. 4660

PLUG

Ø150mm SOCKET PLUG TO B.S 4660



Earth Link Chamber - Section B
SCALE 1:20



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PROJECT

Ballycar Wind Farm
110kV UGC Grid Connection

PROJECT NUMBER
05-923

SHEET NUMBER
05923-DR-117

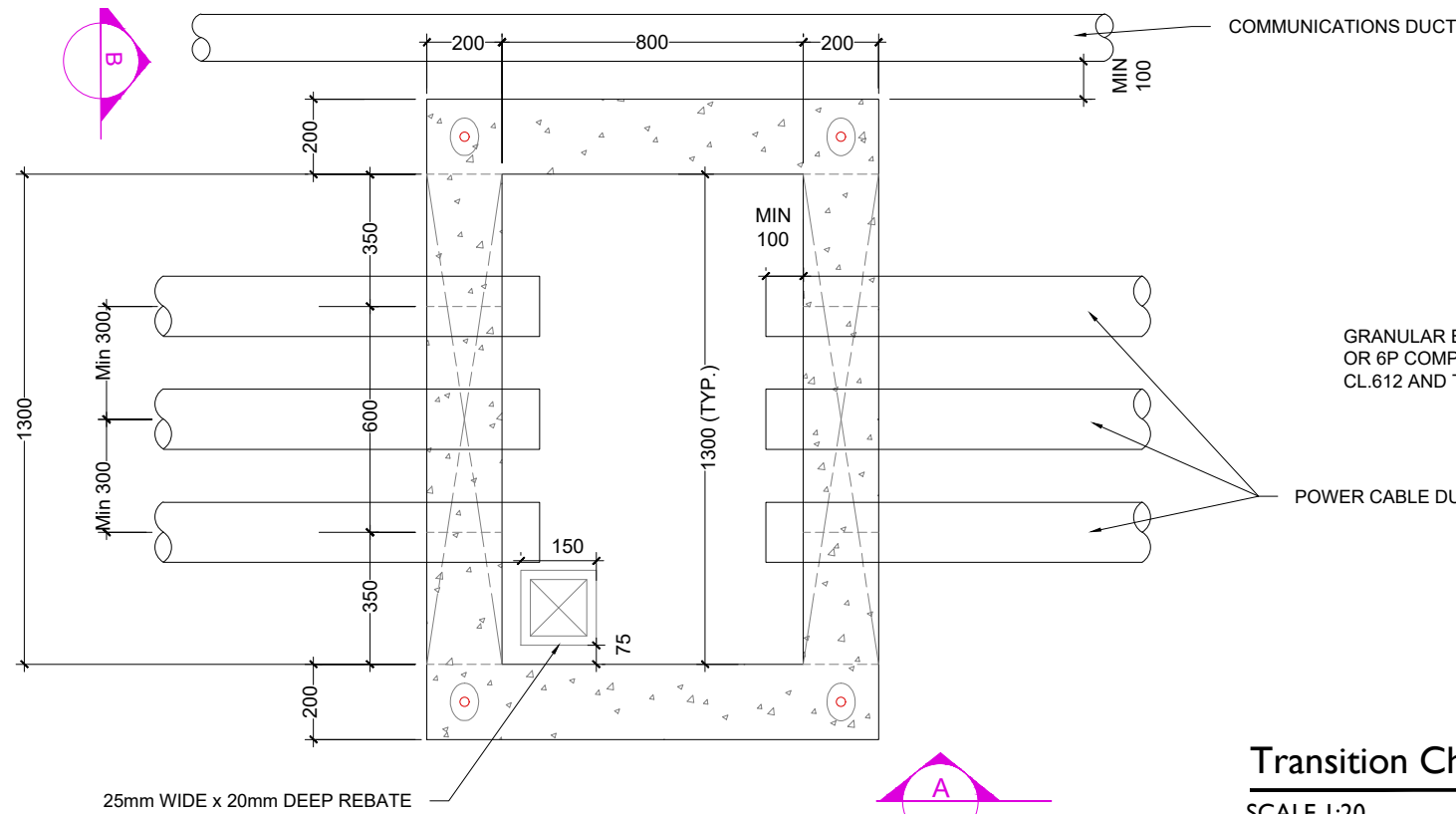
SHEET TITLE

Typical Earth Link
Chamber Details

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P3	12.01.24	Issued for Planning
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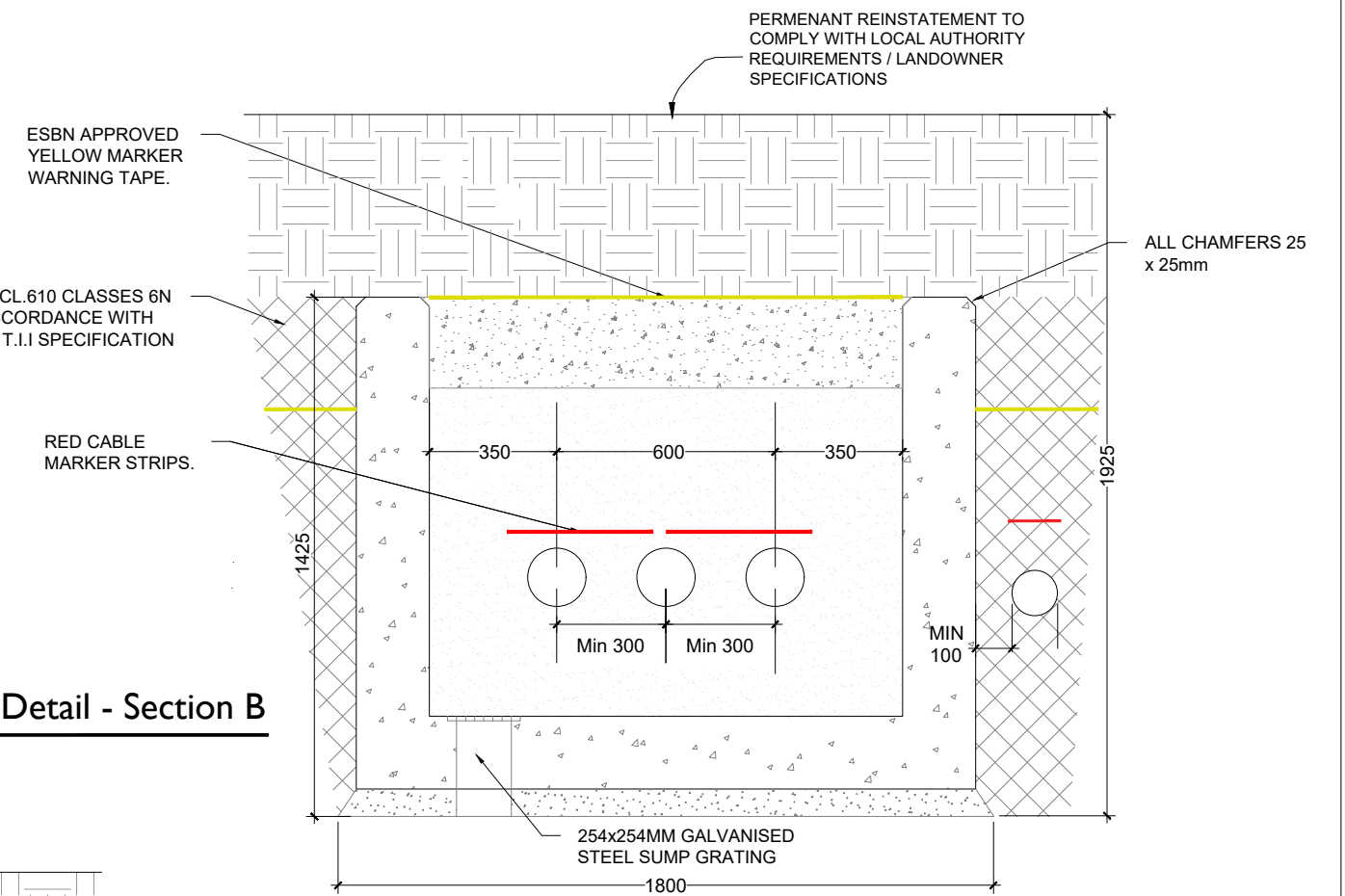


Typical Plan of Transition Chamber

SCALE 1:20

Transition Chamber Detail - Section B

SCALE 1:20

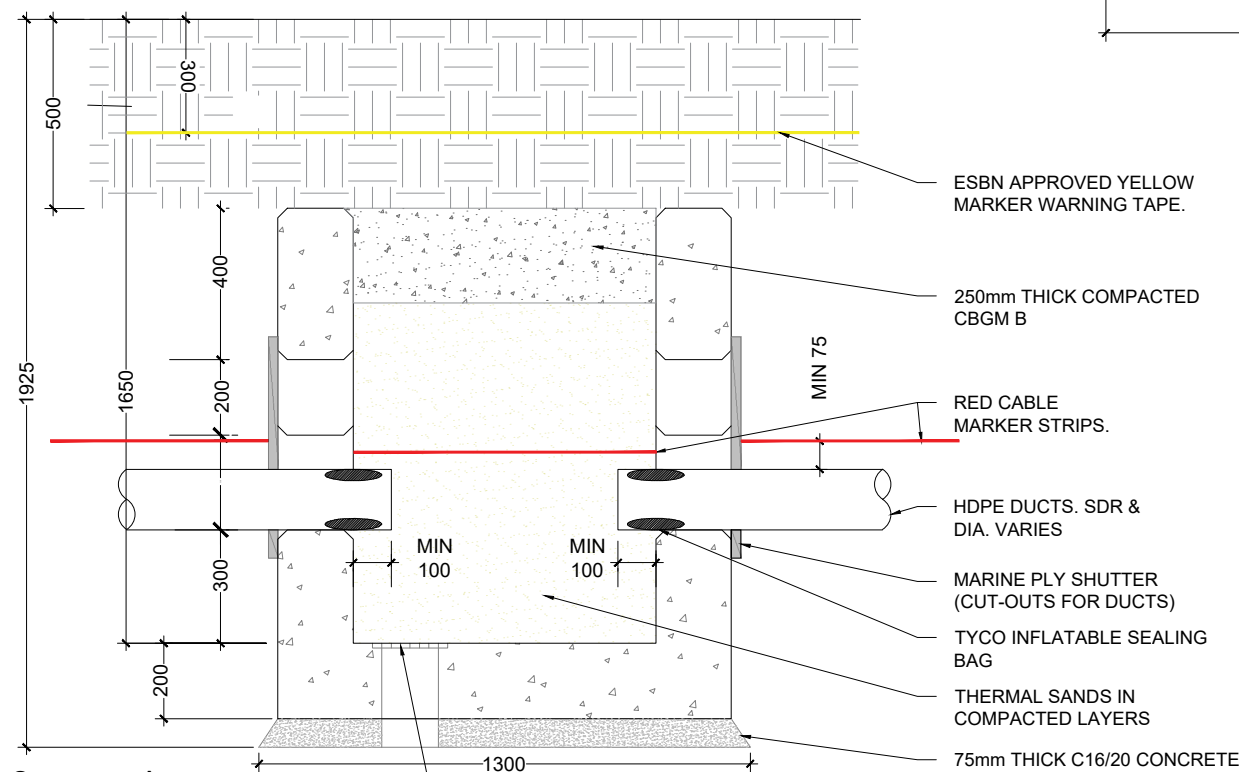


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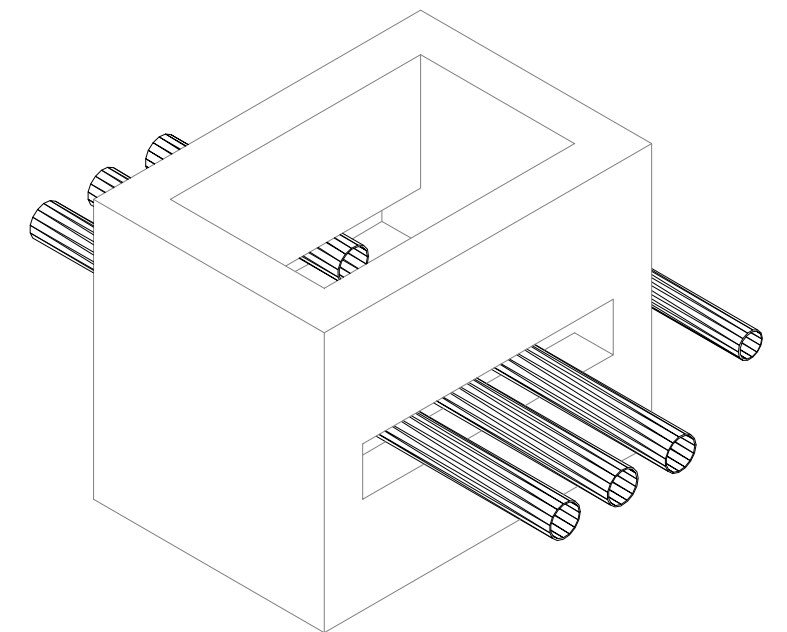
1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED,
2. TELCOM DUCTS NOT TO BE ROUTED THROUGH TRANSITION CHAMBER
3. IF TRANSITION CHAMBER IS USED TO INTERFACE WITH HDD SECTION, THEN THE TELECOMS DUCT SDR 17.6 SHOULD BE CHAMFERED WHEN COUPLED WITH SDR 11 DUCTS
4. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
5. TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON THE SUBSOIL,
6. THE CONSTRUCTION SHOWN, IS APPLICABLE ONLY WHERE THE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100kN/m BEARING CAPACITY
7. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
8. THE CENTRE LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE
9. DUCTS SHALL APPROACH THE CHAMBER IN A STRAIGHT ALIGNMENT (HORIZONTAL OR VERTICAL) FOR A MINIMUM OF 3 METERS BEFORE THE WALL OPENING
10. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
11. THE DEPTH FROM GROUND LEVEL TO THE TOP OF WALL CONSTRUCTION SHALL BE 500mm IN CULVATED FIELDS AND GRASSED LANDS.
12. FINAL POSITION OF TRANSITION CHAMBERS SHALL BE AGREED WITH EIRGRID

Transition Chamber Detail - Section A

SCALE 1:20



150mm SQ. SUMP WITH 195 x 195mm HOT DIPPED GALVANISED STEEL SUMP GRATING TO I.S. EN ISO 1461, FOLLOWING BLAST CLEANING



Isometric : Chamber Arrangement

SCALE 1:20



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PROJECT

Ballycar Wind Farm
110kV UGC Grid Connection

PROJECT NUMBER
05-923

SHEET NUMBER
05923-DR-118

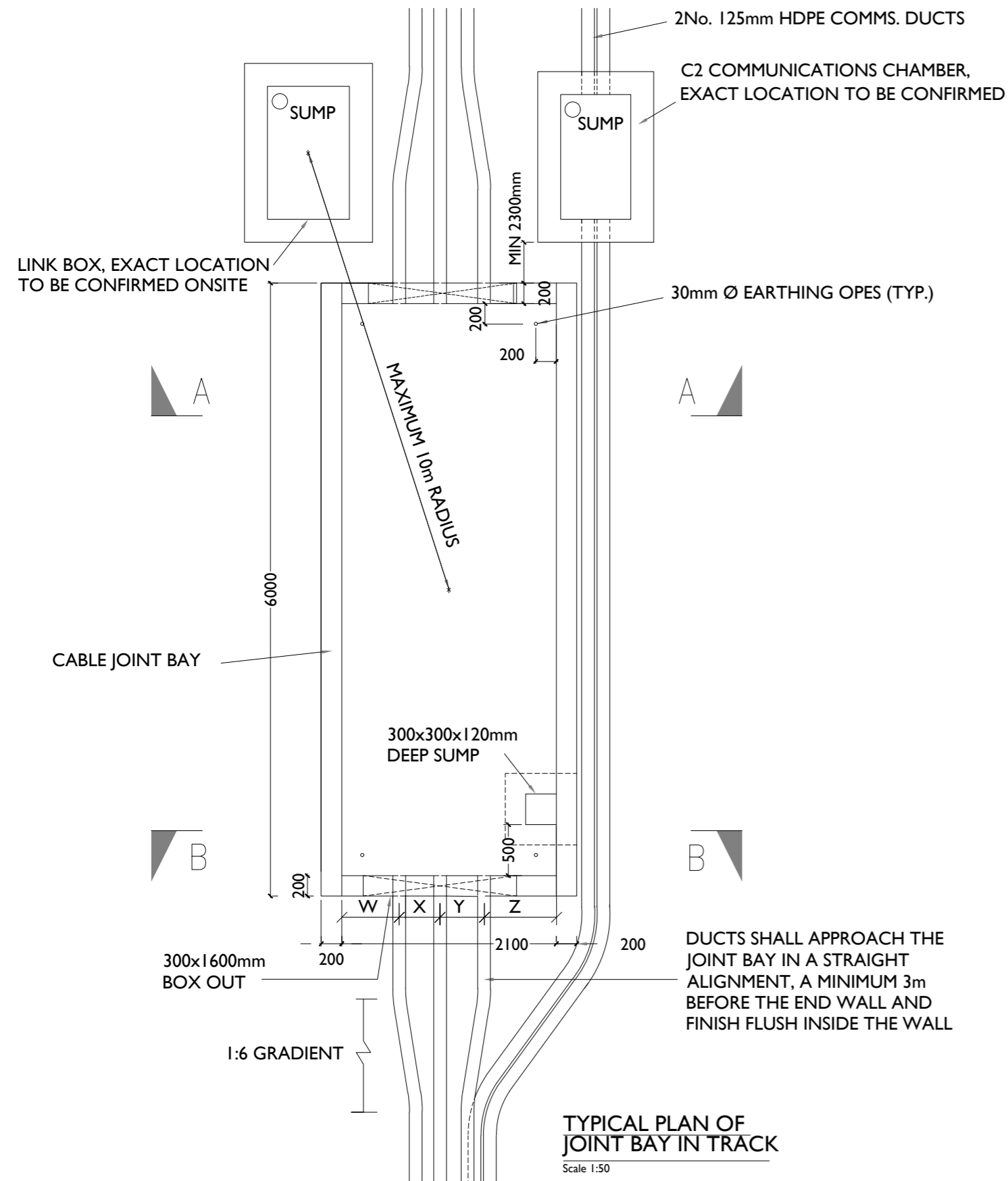
SHEET TITLE

Typical Transition
Chamber Details

DRAWING STATUS
For Information

ISSUE/REVISION

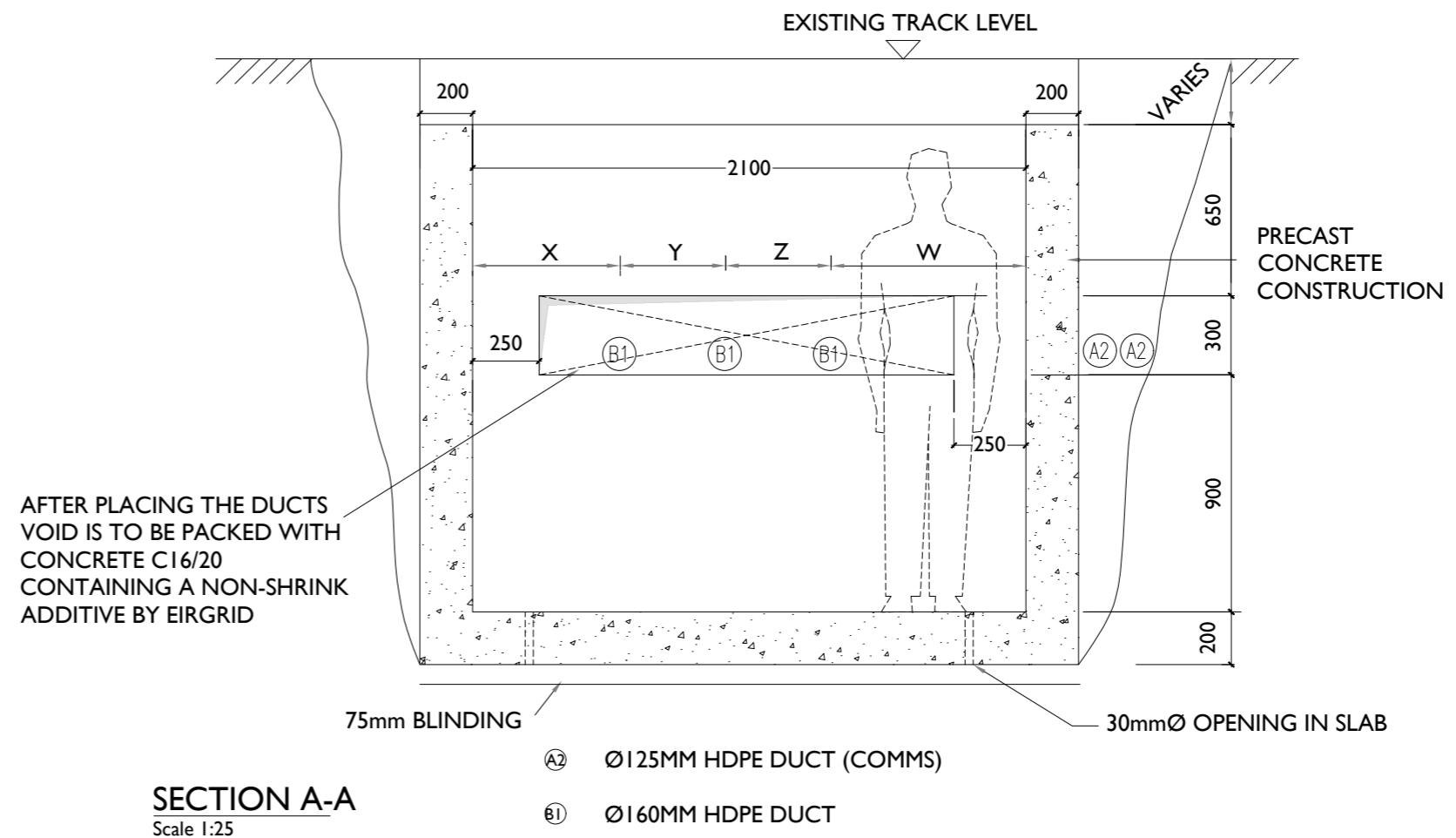
I/R	DATE	DESCRIPTION
P3	12.01.24	Issued for Planning
P2	12.12.23	Issued for Planning
P1	06.11.23	Issued for Planning



TYPICAL PLAN OF JOINT BAY IN TRACK
Scale 1:50

GENERAL NOTES:

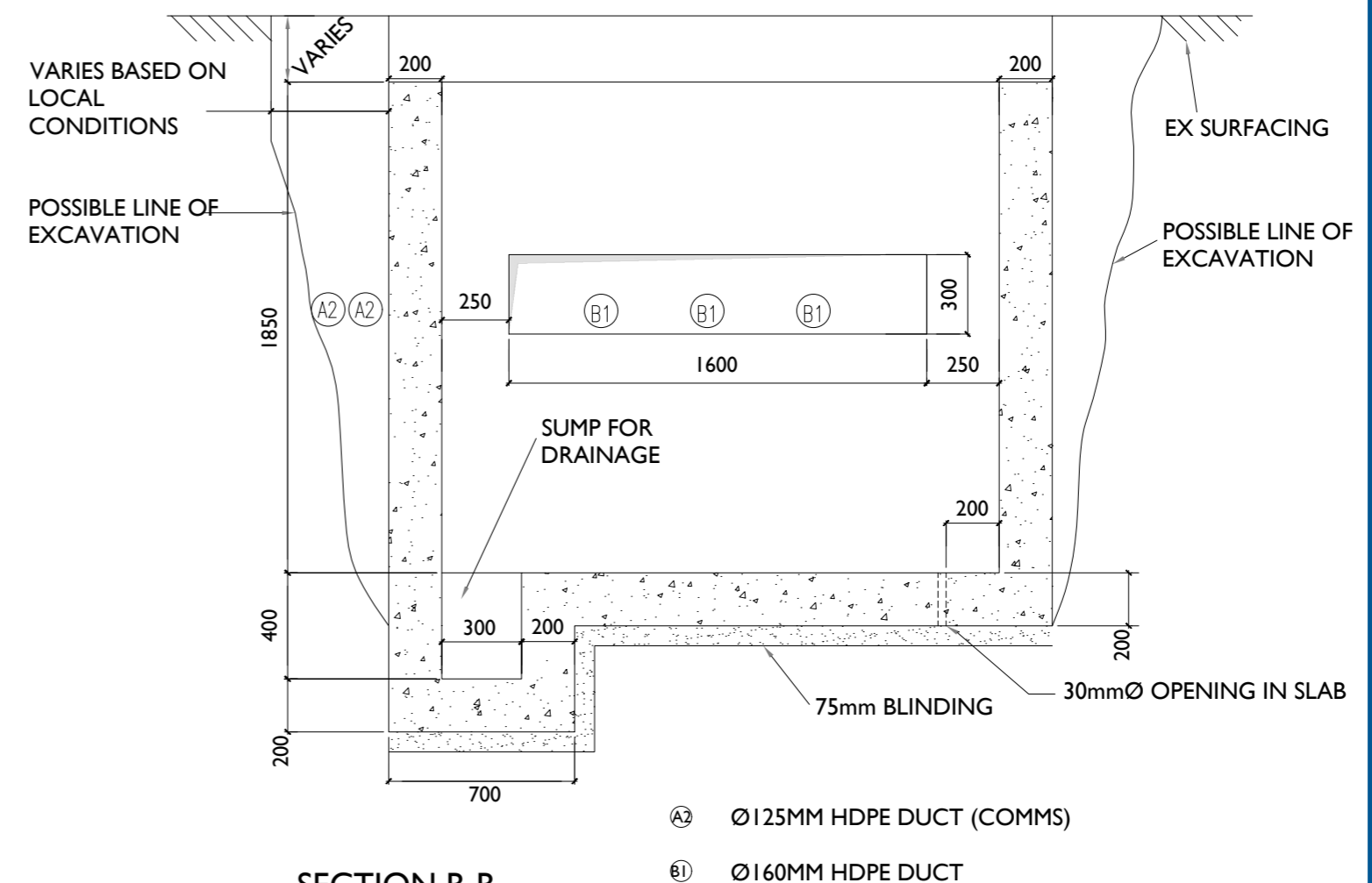
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5. STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m². SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND 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 PERMITTED.
6. ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
7. THE DEPTH FROM GROUND/TRACK LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE
A. 500MM - IN CULTIVATED FIELDS & GRASS LAND
8. 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 PRIOR TO INSTALLATION



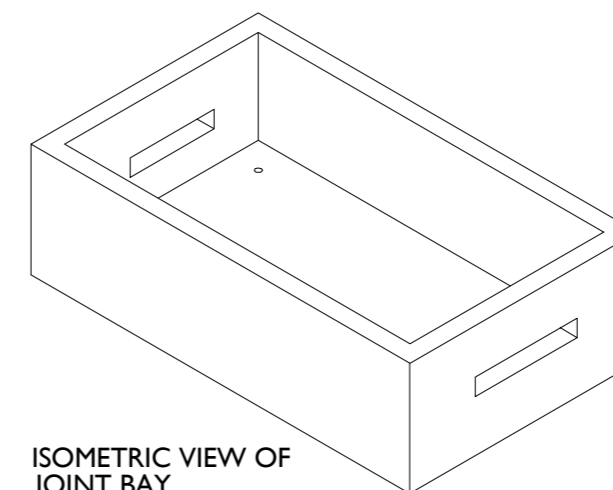
SECTION A-A
Scale 1:25

TABLE 1 - DUCT SEPERATION

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



SECTION B-B
Scale 1:25



ISOMETRIC VIEW OF JOINT BAY
N.T.S.

PROJECT

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

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NOTES: -

LEGEND: -

ISSUE/REVISION

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

PROJECT NUMBER

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SHEET TITLE

Joint Bay Section Detail

SHEET NUMBER

05923-DR-119

PROJECT

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

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NOTES: -

See General Notes

LEGEND: -

ISSUE/REVISION

NO	DATE	DESCRIPTION
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

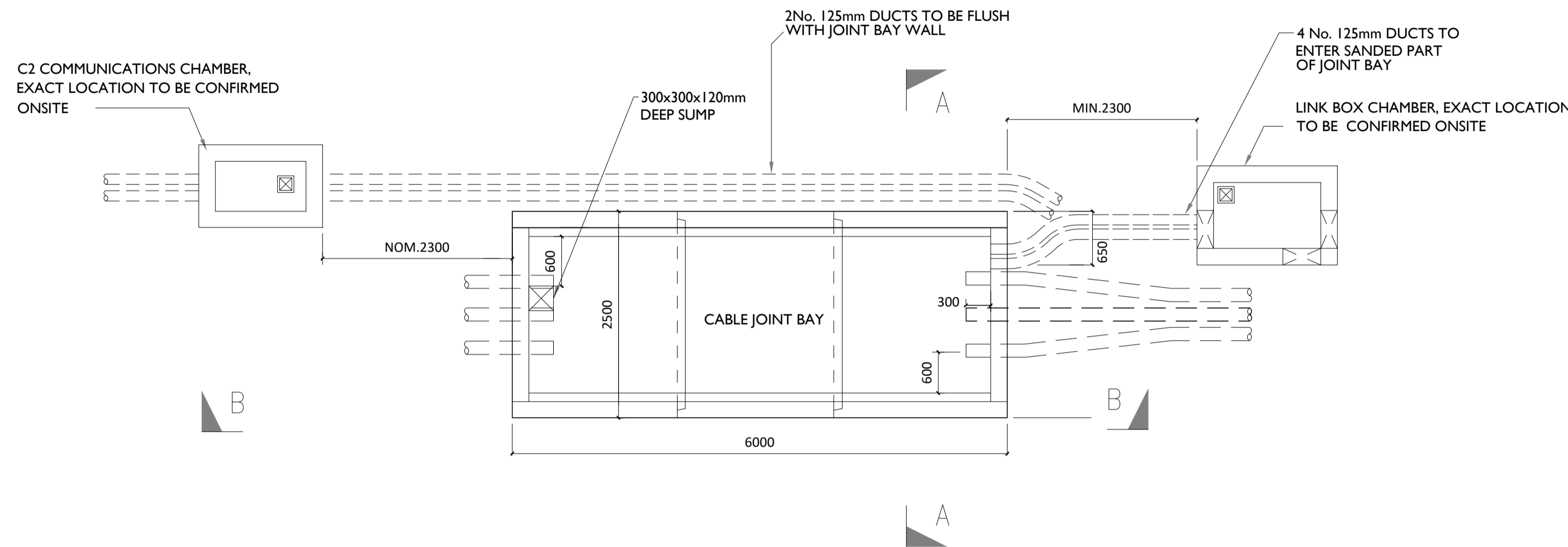
05-923

SHEET TITLE

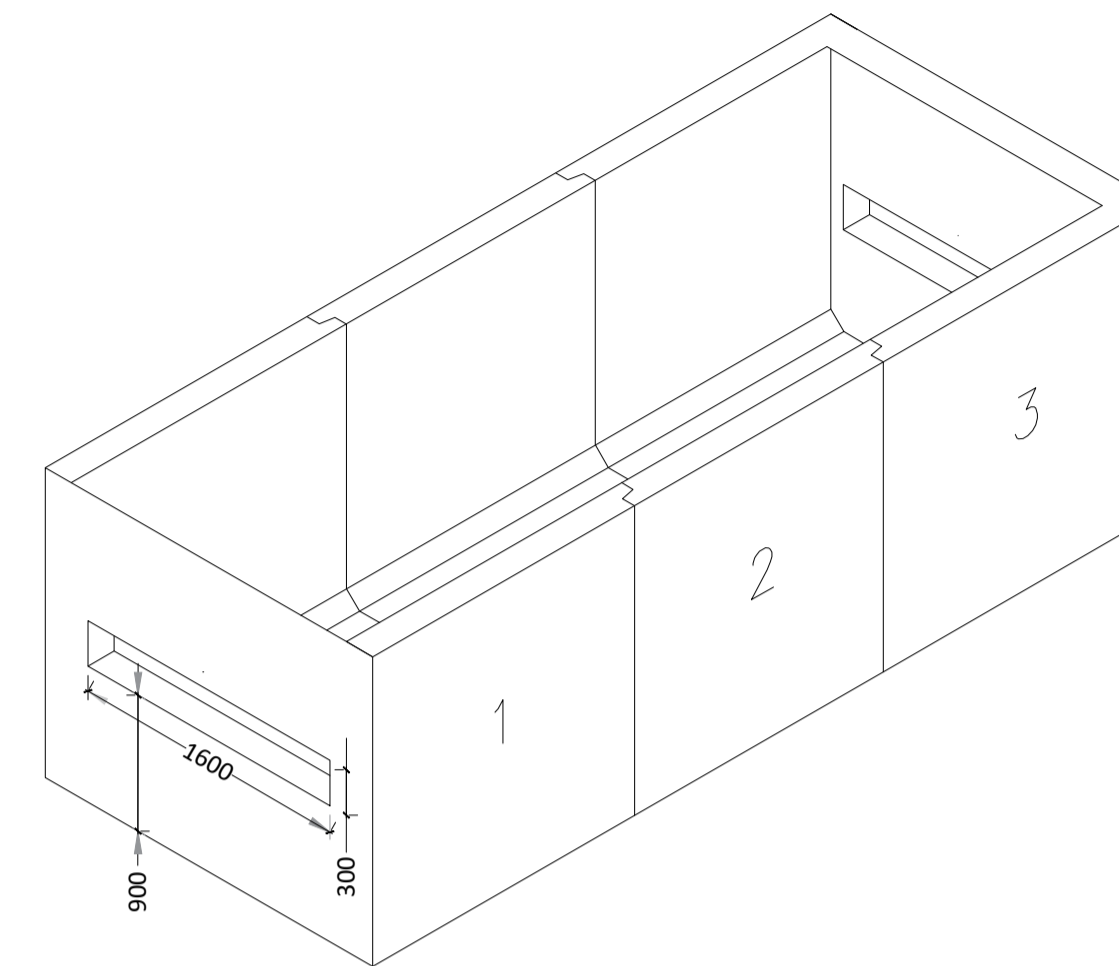
110kV Joint Bay General Arrangement and Details

SHEET NUMBER

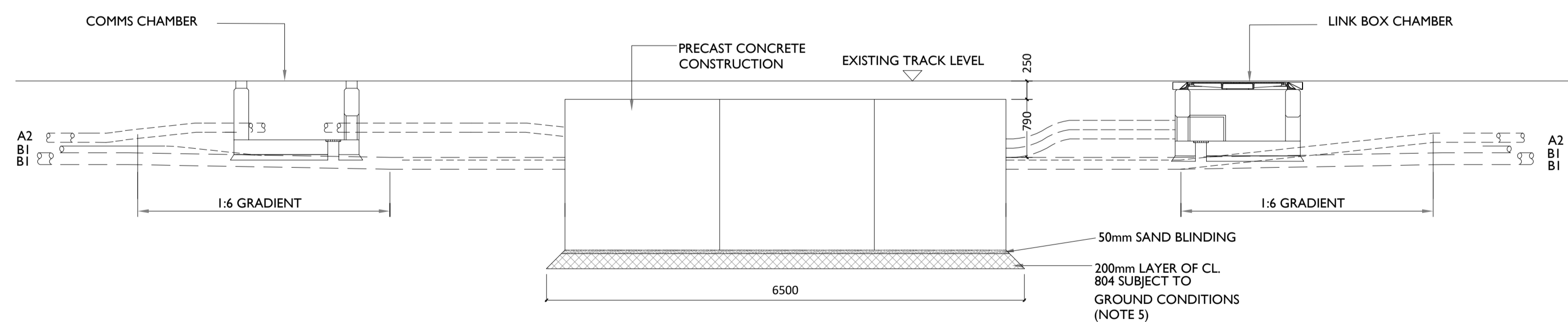
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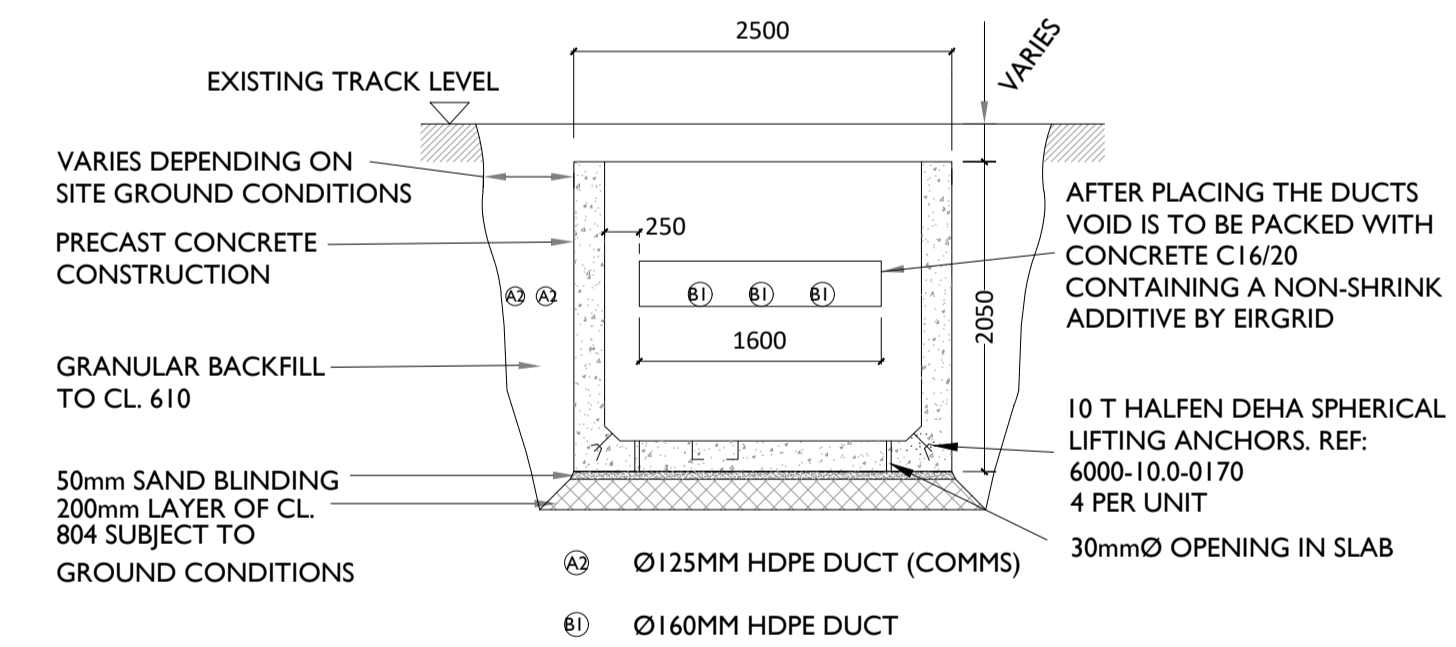
PLAN VIEW
 SCALE 1:50



ISOMETRIC VIEW PRECAST CHAMBER
 SCALE 1:50



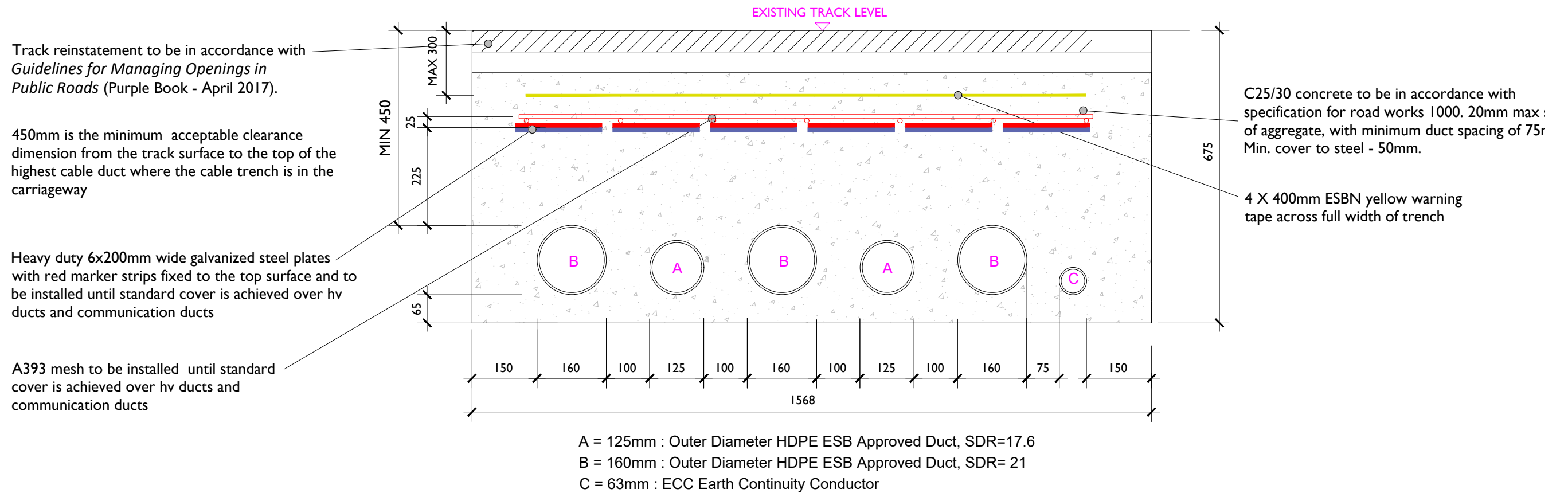
SECTION B-B
 SCALE 1:50



SECTION A-A
 SCALE 1:50

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- 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 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 PERMITTED.
- ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
- THE DEPTH FROM GROUND/TRACK LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE A. 500MM - IN CULTIVATED FIELDS & GRASS LAND
- LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF TRACK
- LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION



Typical Section Through Ducting in Flat Formation

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 dimensions only

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



Head Office
 Beenreigh,
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 Tralee, Co. Kerry
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 Tel: 00353 66 7135710

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PROJECT

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

PROJECT NUMBER
 05-923

SHEET NUMBER
 05923-DR-121

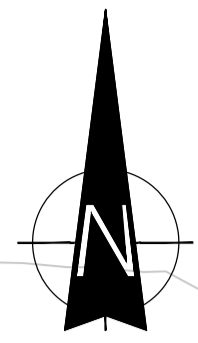
SHEET TITLE

**Typical Section Through Ducting
 in Flat Formation**

DRAWING STATUS
 For Planning

ISSUE/REVISION

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



Map Series:
1:2500 Prime Data Raster

Reference No.'s
4622,4563,4562,4621

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Head Office
Beenleigh,
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
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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: -

- UGC Cable Route shown thus (1.5 km)
- Planning Application Boundary
- Contours 14.0
- Access track

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P7	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	06.12.22	Issued for Information

PROJECT NUMBER

05-923

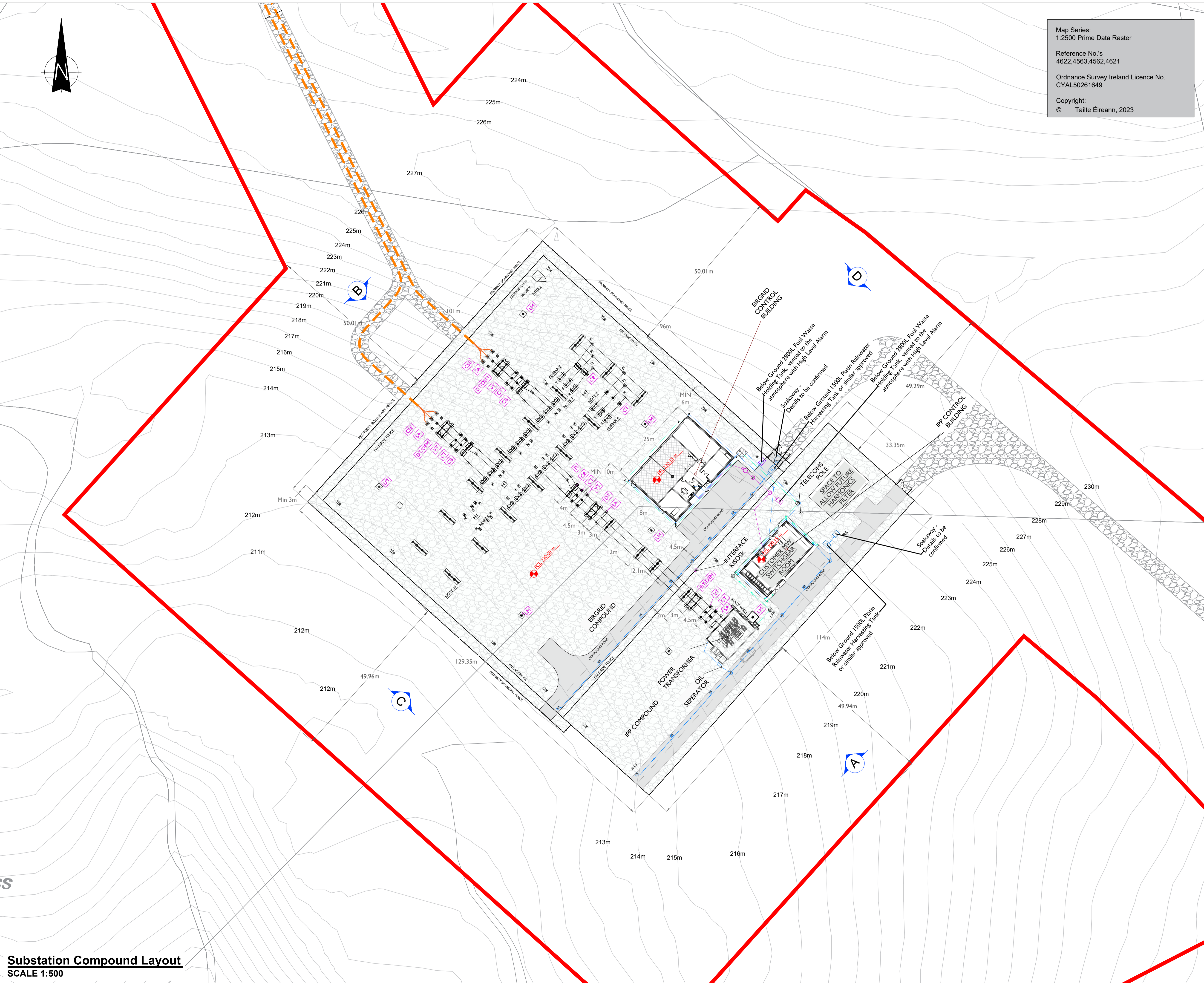
SHEET TITLE

Substation Compound Layout

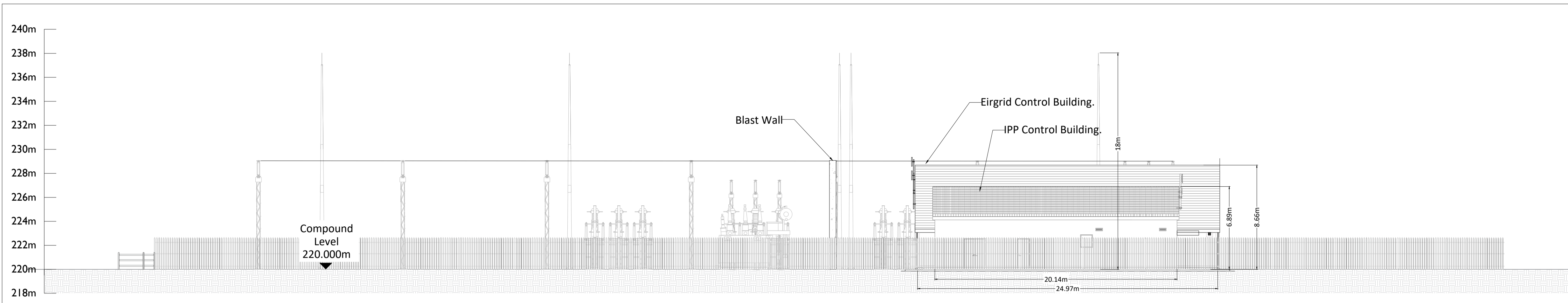
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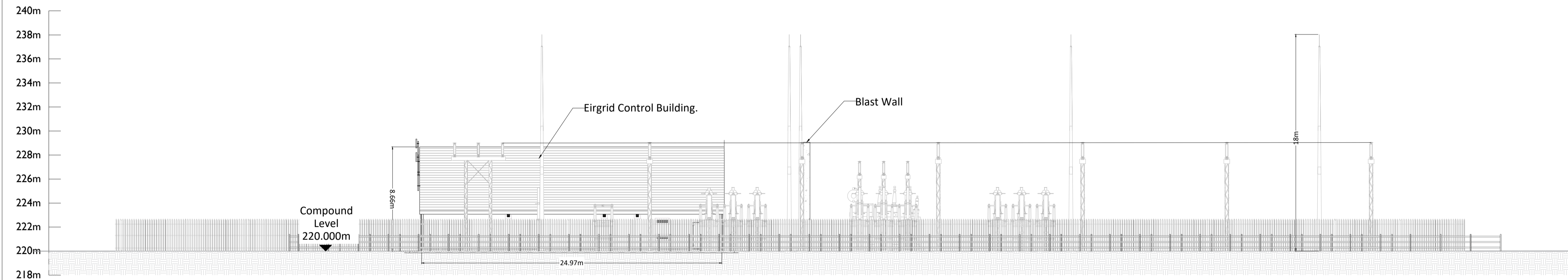
Substation Compound Layout
SCALE 1:500



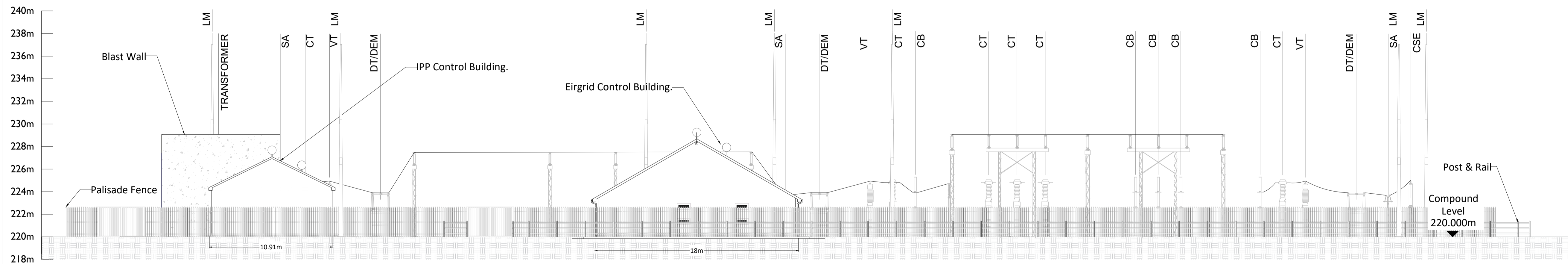
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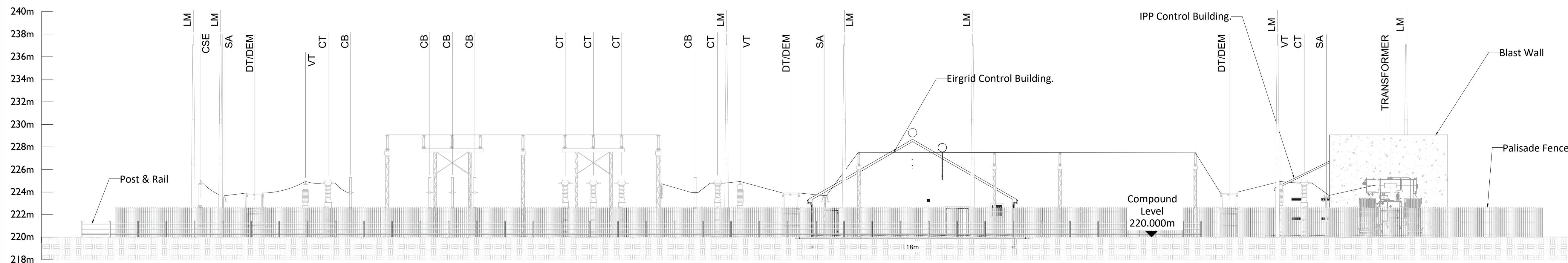
South East Elevation A
Scale 1:200



North West Elevation B
Scale 1:200



North East Elevation D
Scale 1:200



South West Elevation C
Scale 1:200



Head Office
Breenagh,
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

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NOTES: -

- 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 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.
DT/DEM	Line / Earth Disconnect.
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
LM	Lightning Mast.

ISSUE/REVISION

NO.	DATE	DESCRIPTION
P6	12.01.24	Issued for Planning
P5	12.12.23	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	06.12.22	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-923

SHEET TITLE

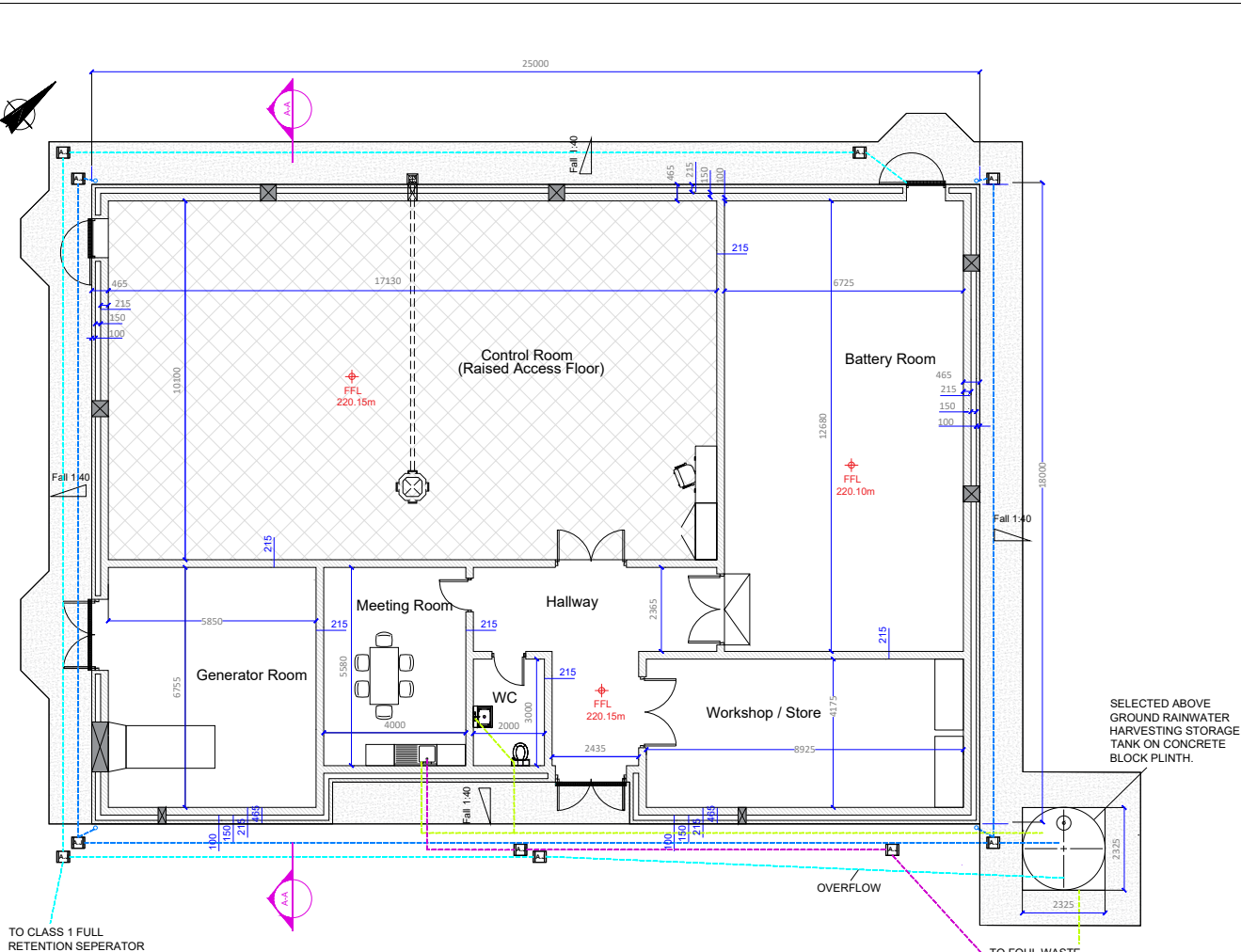
Substation Elevations

SHEET NUMBER

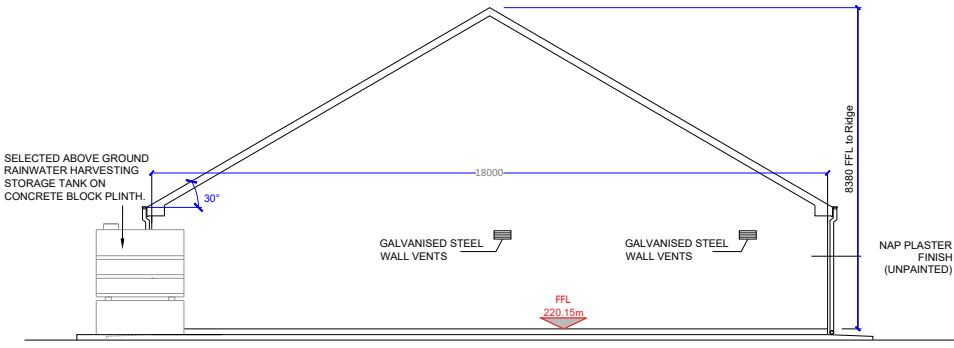
05923-DR-131

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

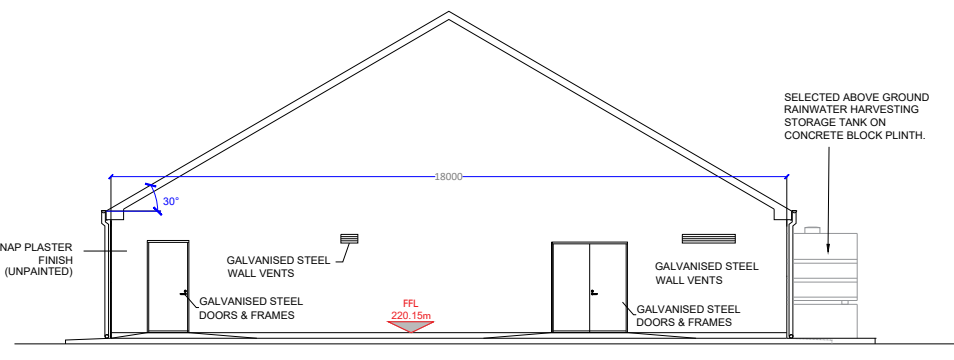
ISO A1 594mm x 841mm



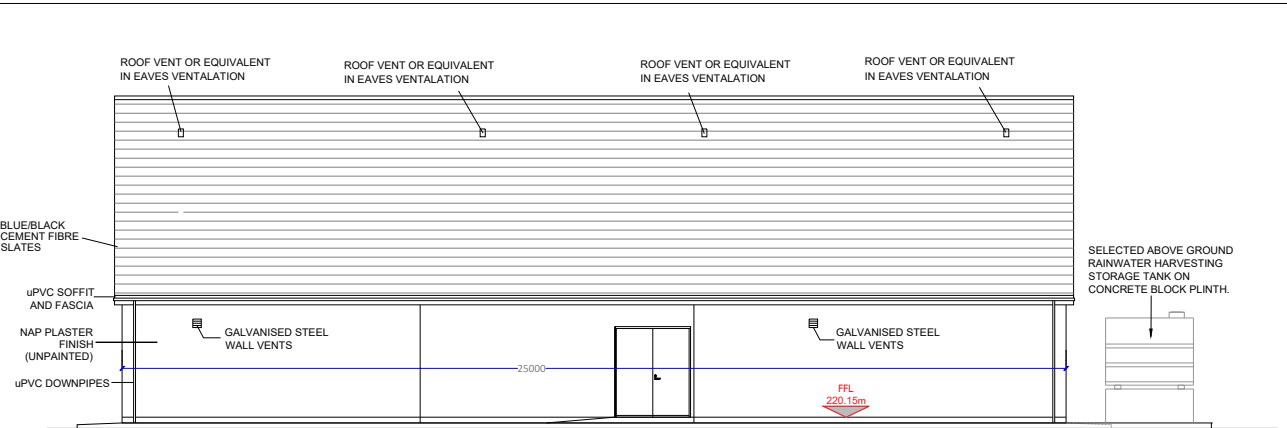
PLAN - CONTROL BUILDING
Scale : 1:100



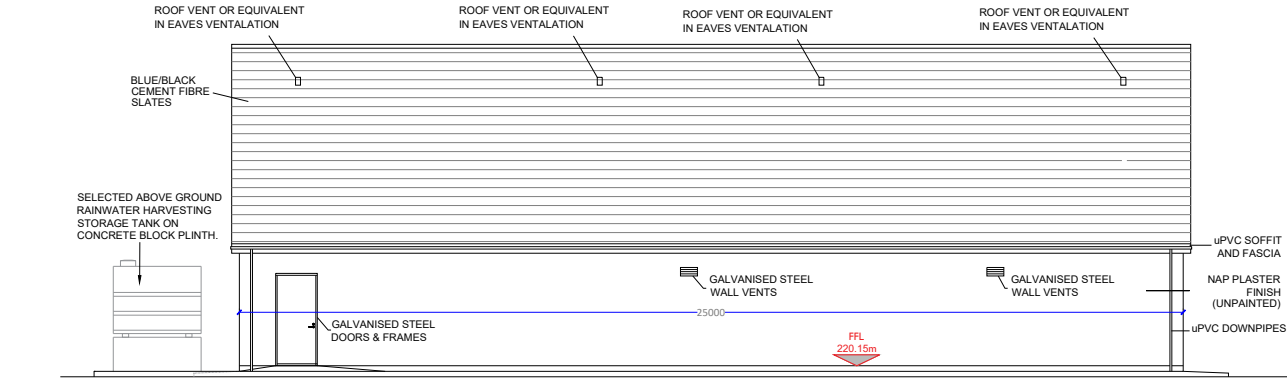
RIGHT SIDE ELEVATION
Scale : 1:100



LEFT SIDE ELEVATION
Scale : 1:100

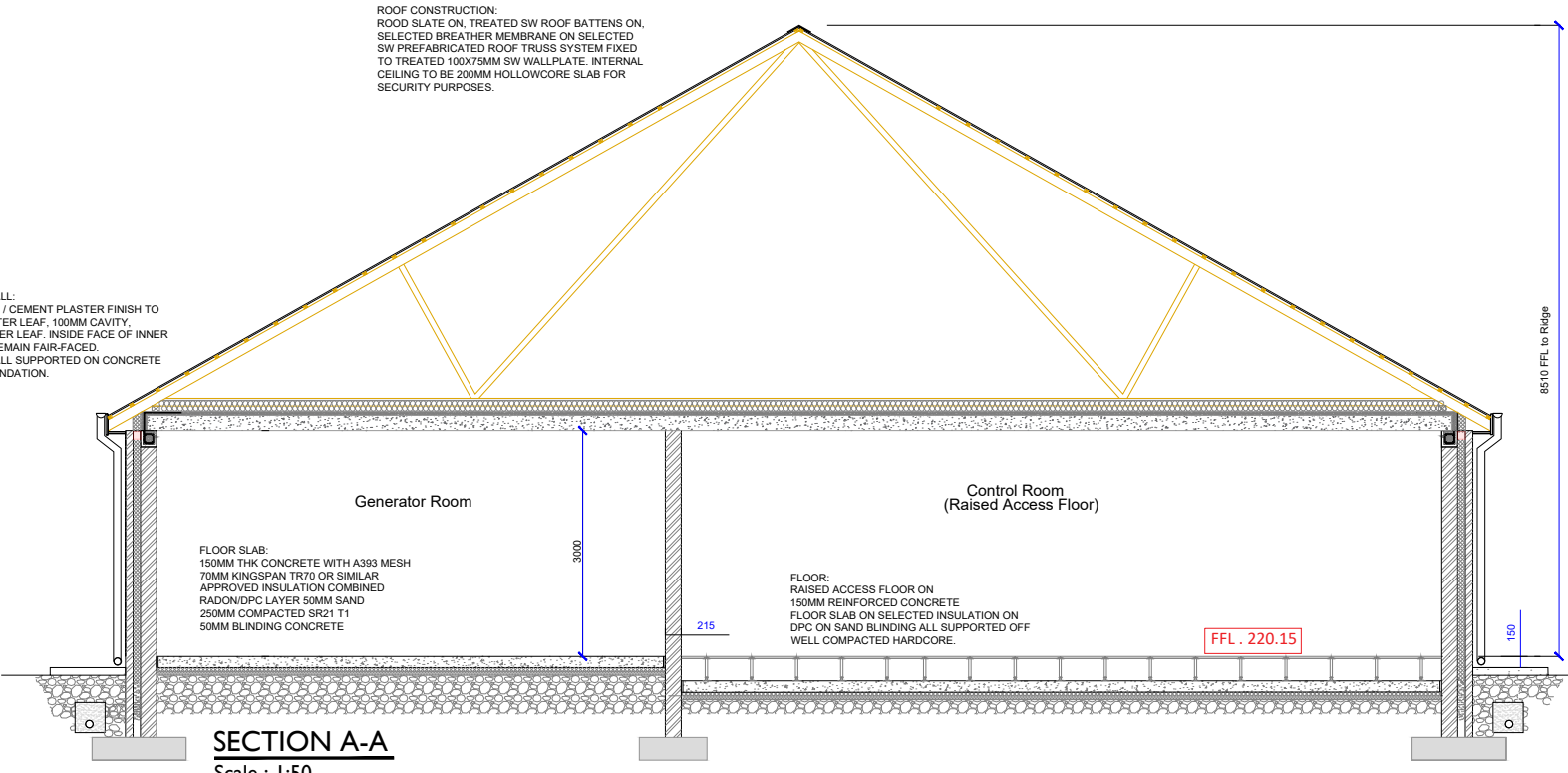


FRONT ELEVATION
Scale : 1:100



REAR ELEVATION
Scale : 1:100

CAVITY WALL:
FLAT SAND / CEMENT PLASTER FINISH TO 100MM OUTER LEAF, 100MM CAVITY, 215MM INNER LEAF, INSIDE FACE OF INNER LEAF TO REMAIN FAIR-FACED. CAVITY WALL SUPPORTED ON CONCRETE STRIP FOUNDATION.



SECTION A-A
Scale : 1:50

- NOTES:-**
- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
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 - 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 ▽ 279.10m

Concrete Footpath shown thus

ISSUE/REVISION

NO	DATE	DESCRIPTION
P5	12.12.23	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	06.12.22	Issued for Information
I/R	DATE	DESCRIPTION

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



- NOTES:-**
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 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.
 3. Final Specifications of Buildings and Electrical Equipment is to be as per Eirgrid and ESB Specifications.
 4. 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 ▽ 220.15m
- Concrete Footpath shown thus

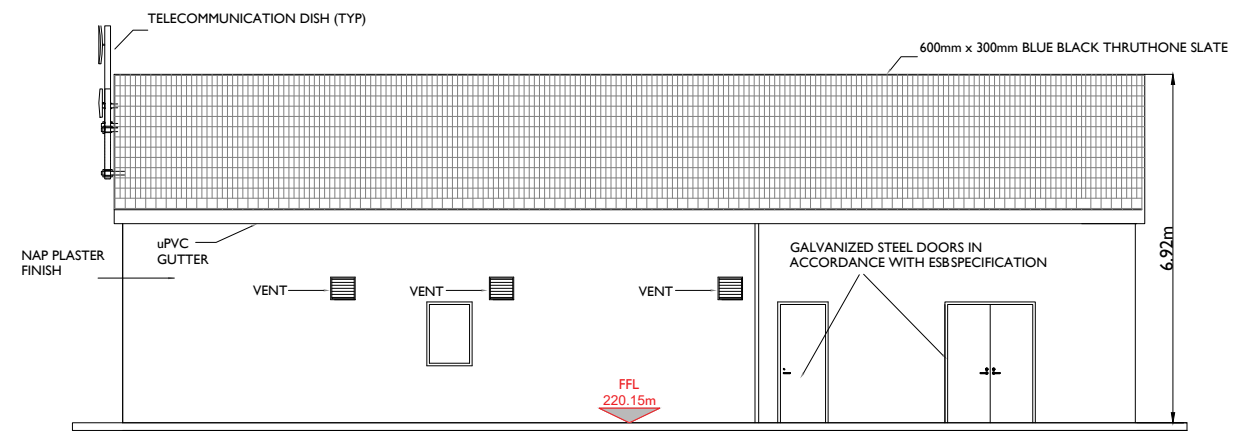
ISSUE/REVISION

I/R	DATE	DESCRIPTION
P5	12.12.23	Issued for Planning
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P3	24.05.23	Issued for Planning
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P1	06.12.22	Issued for Information

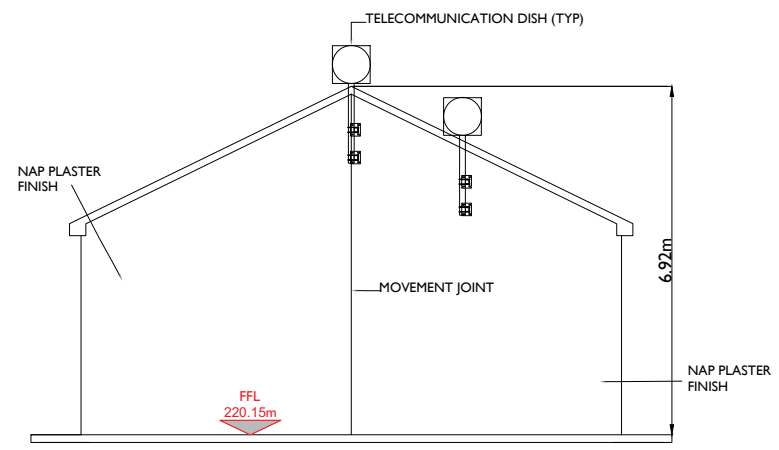
PROJECT NUMBER
 05-923

SHEET TITLE
 IPP Building - Plan & Elevations
 & Section

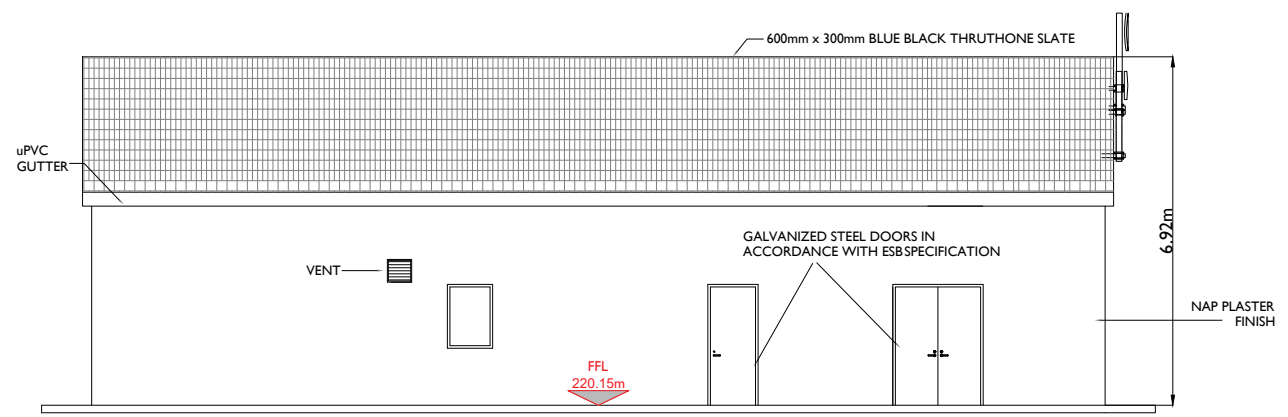
SHEET NUMBER
 05923-DR-133



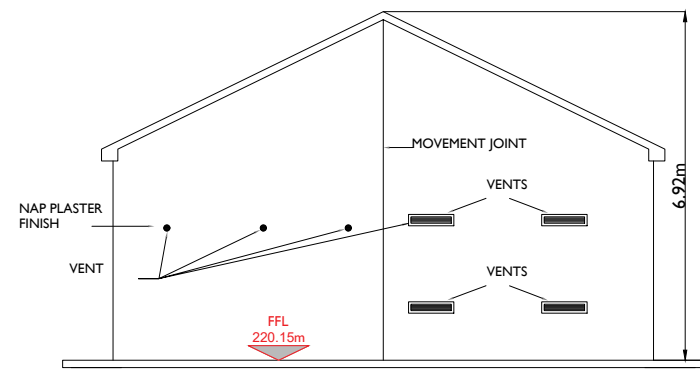
REAR ELEVATION
 Scale : 1:75



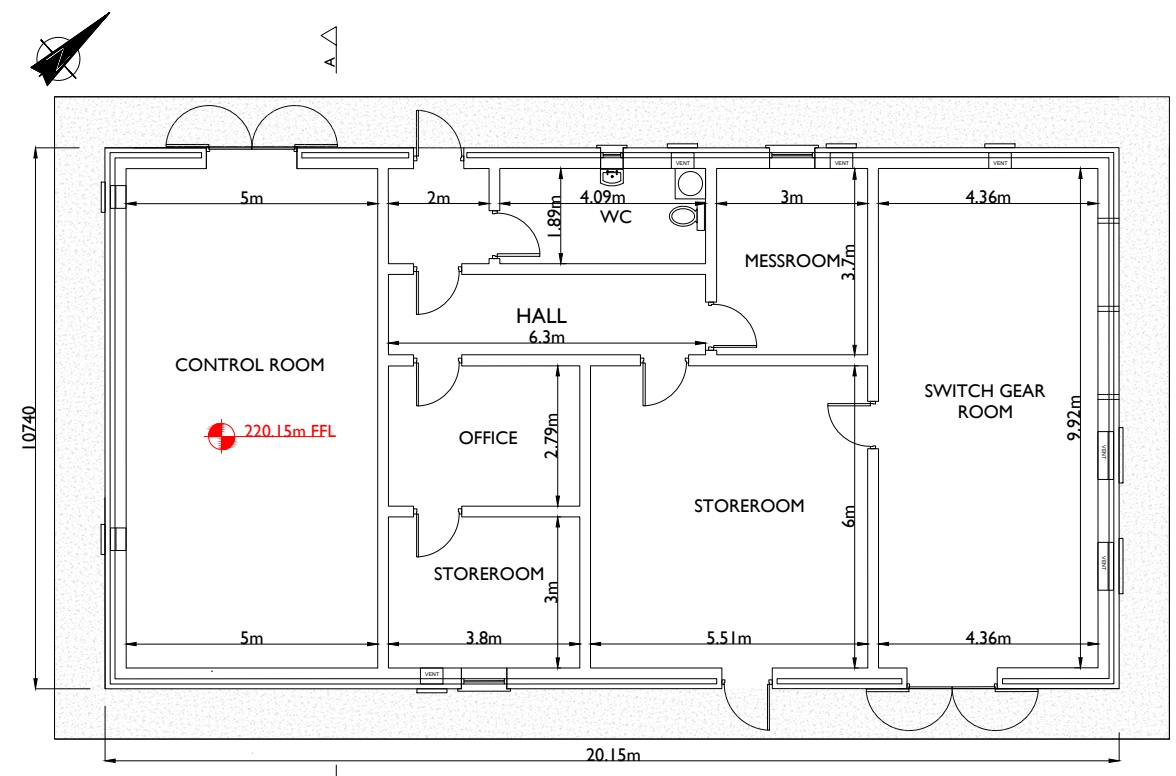
SIDE ELEVATION
 Scale : 1:75



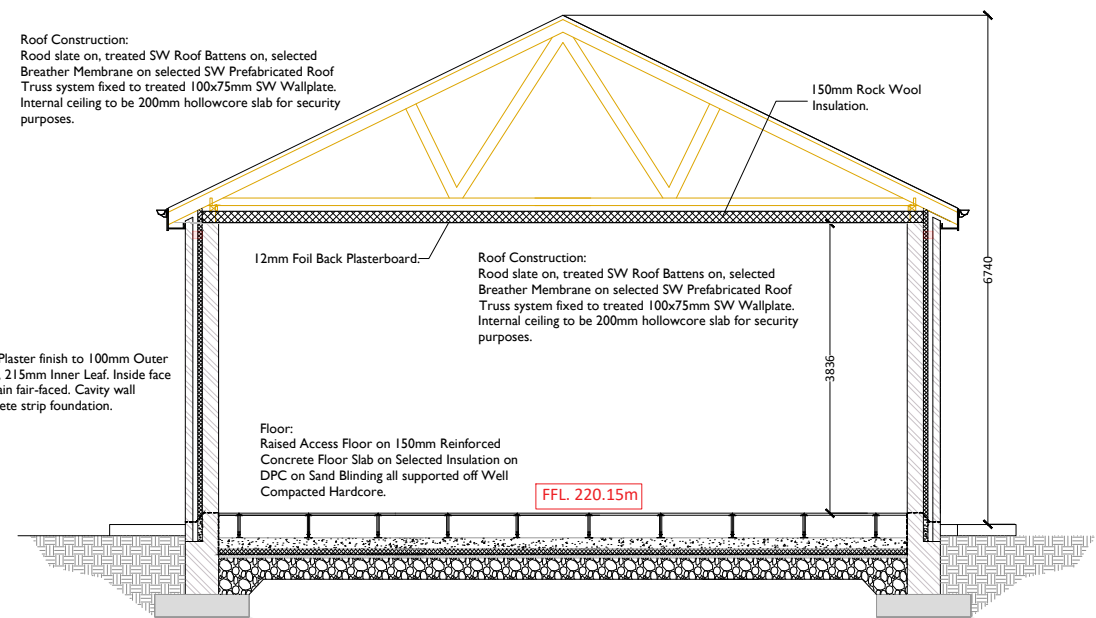
FRONT ELEVATION
 Scale : 1:75



SIDE ELEVATION
 Scale : 1:75



PLAN - IPP BUILDING
 Scale : 1:100

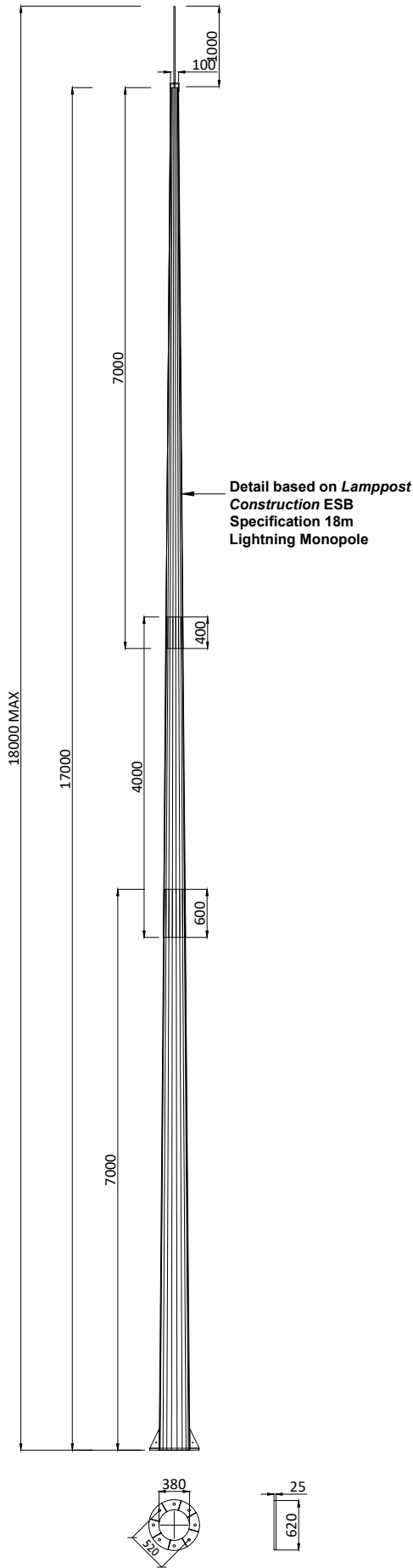


SECTION A-A
 Scale : 1:50

Cavity Wall:
 Flat Sand / Cement Plaster finish to 100mm Outer Leaf, 100mm Cavity, 215mm Inner Leaf, Inside face of inner leaf to remain fair-faced. Cavity wall supported on concrete strip foundation.

Roof Construction:
 Roof slate on, treated SW Roof Battens on, selected Breather Membrane on selected SW Prefabricated Roof Truss system fixed to treated 100x75mm SW Wallplate. Internal ceiling to be 200mm hollowcore slab for security purposes.

Floor:
 Raised Access Floor on 150mm Reinforced Concrete Floor Slab on Selected Insulation on DPC on Sand Blinding all supported off Well Compacted Hardcore.



Monopole Details

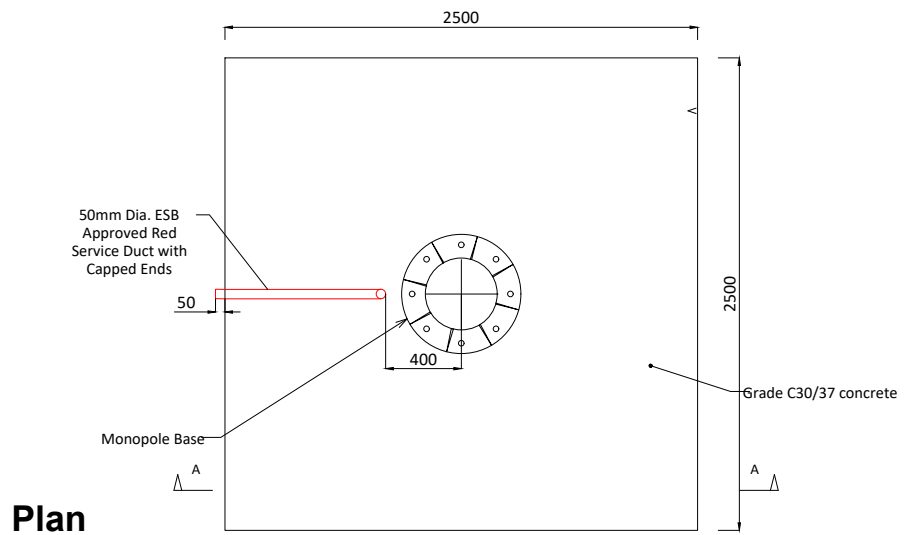
SCALE 1:75

GENERAL NOTES:

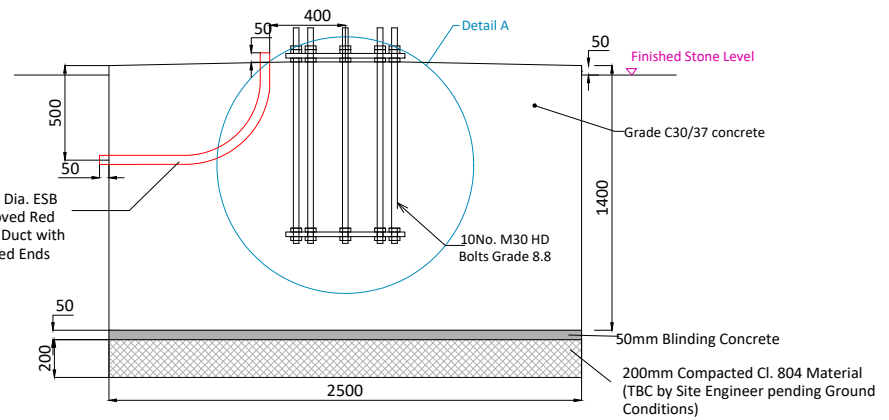
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL ENGINEERS AND ARCHITECTS DRAWINGS
2. ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2002 WITH THE MIX DESIGNS SHOWN IN TABLE 1
3. CONCRETE FINISHES TO BE IN ACCORDANCE WITH TABLE 6.1 OF THE ESBI SPECIFICATION CS17-SO1-005.
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-SO1-005

FOUNDATION NOTES:

7. GROUND TO HAVE A MINIMUM BEARING CAPACITY OF 100 kN/M².
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.

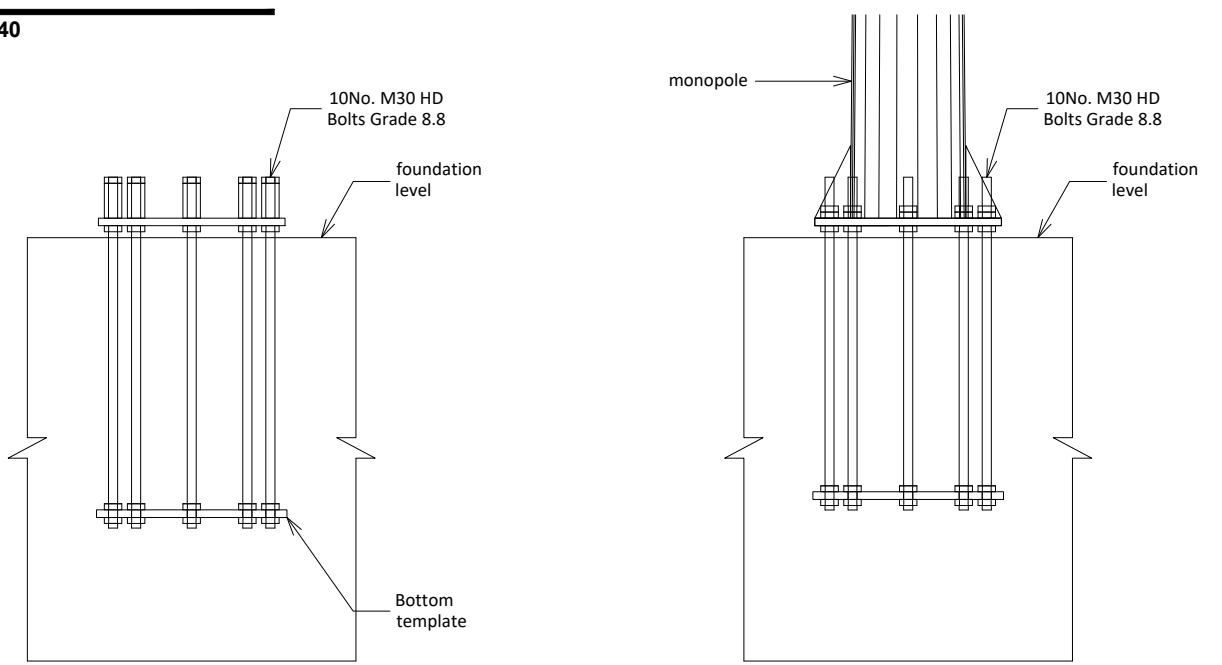


Plan
SCALE 1:40



Section A-A: Foundation detail

SCALE 1:40



Detail A
Scale : 1:25

Monopole Base Plate to HDB Connection
Scale : 1:25



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Beenreigh,
Abbeydorney,
Tralee, Co. Kerry
Ireland
Tel: 00353 66 7135710

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PROJECT
Ballycar Wind Farm
110kV UGC Grid
Connection

SHEET TITLE

Lightning Monopole Foundation Details
18m Masts

DRAWING STATUS
For Information

PROJECT NUMBER
05-923

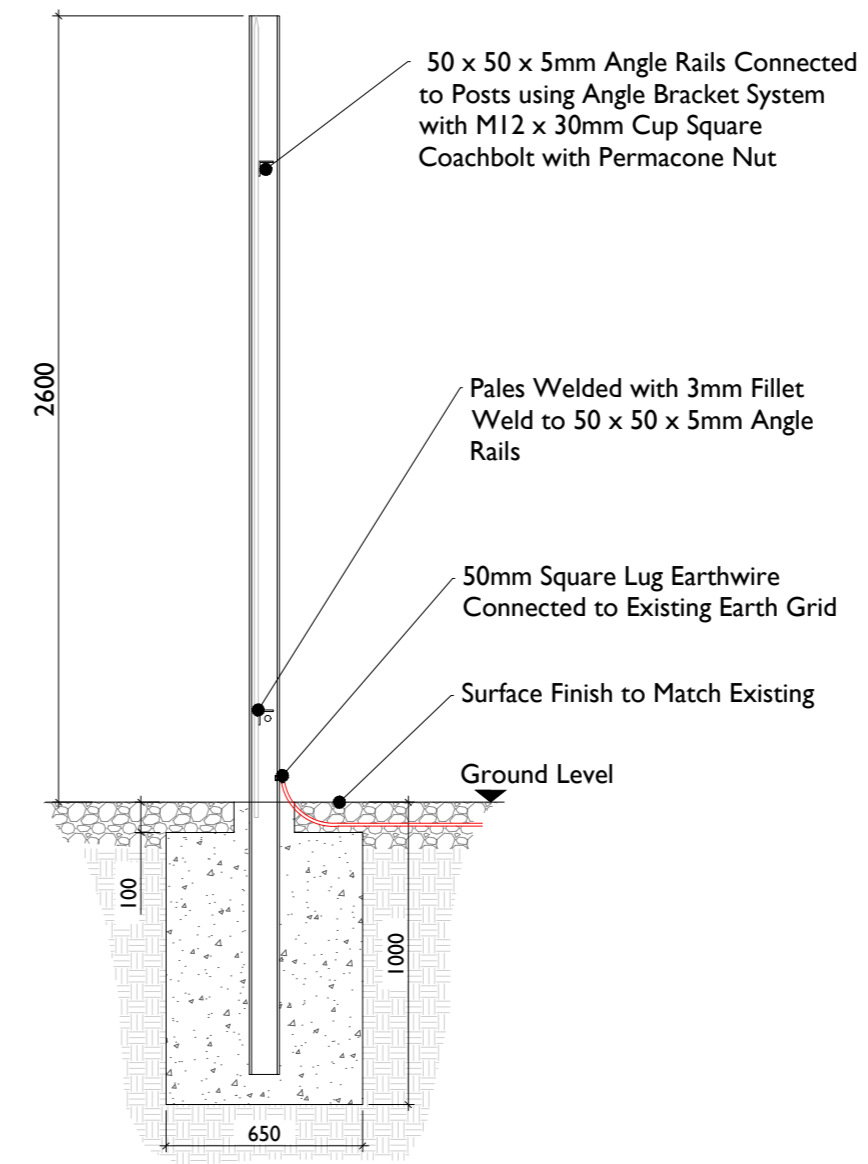
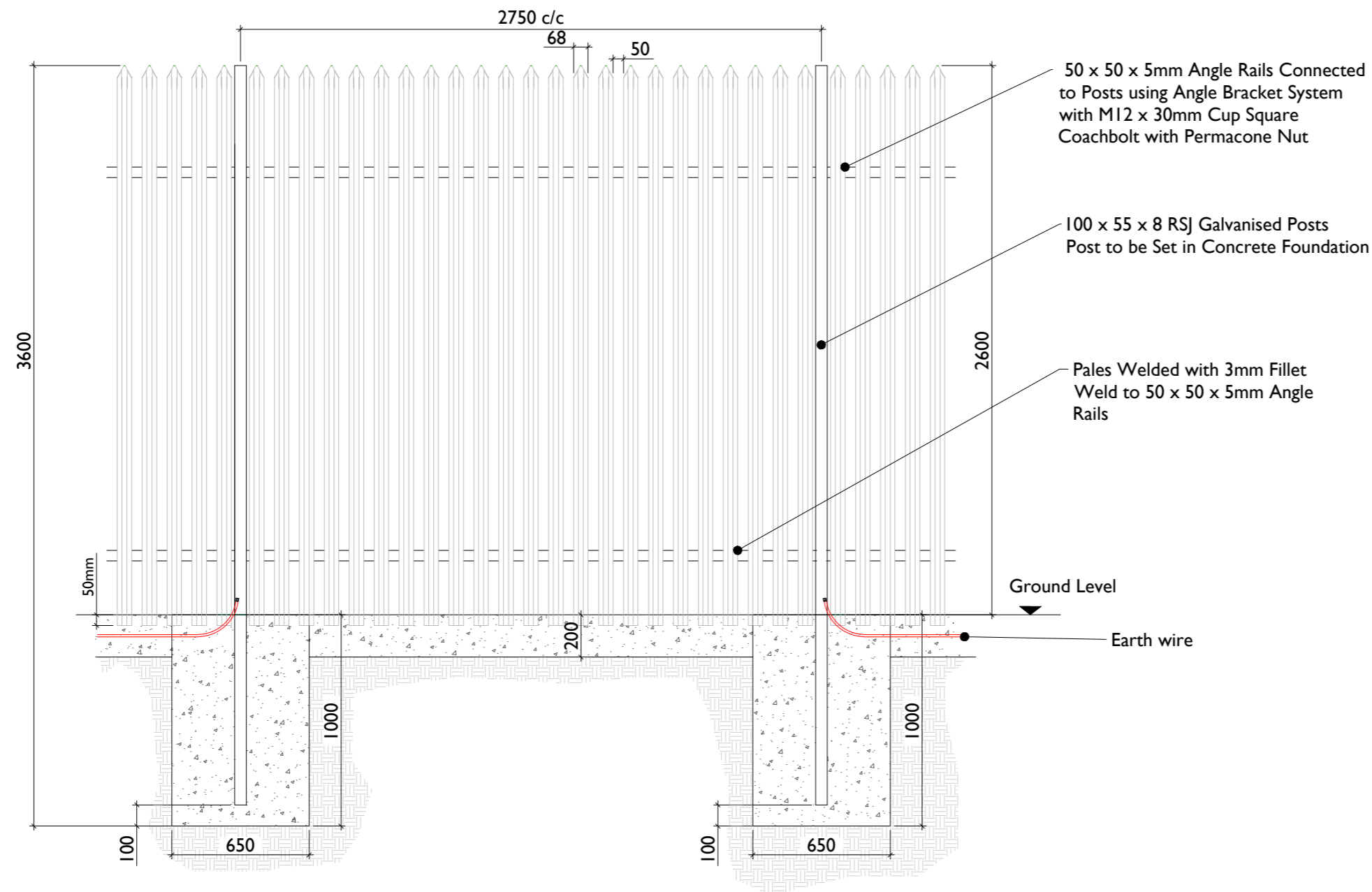
SHEET NUMBER
05923-DR-134

LEGEND/NOTES: -

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

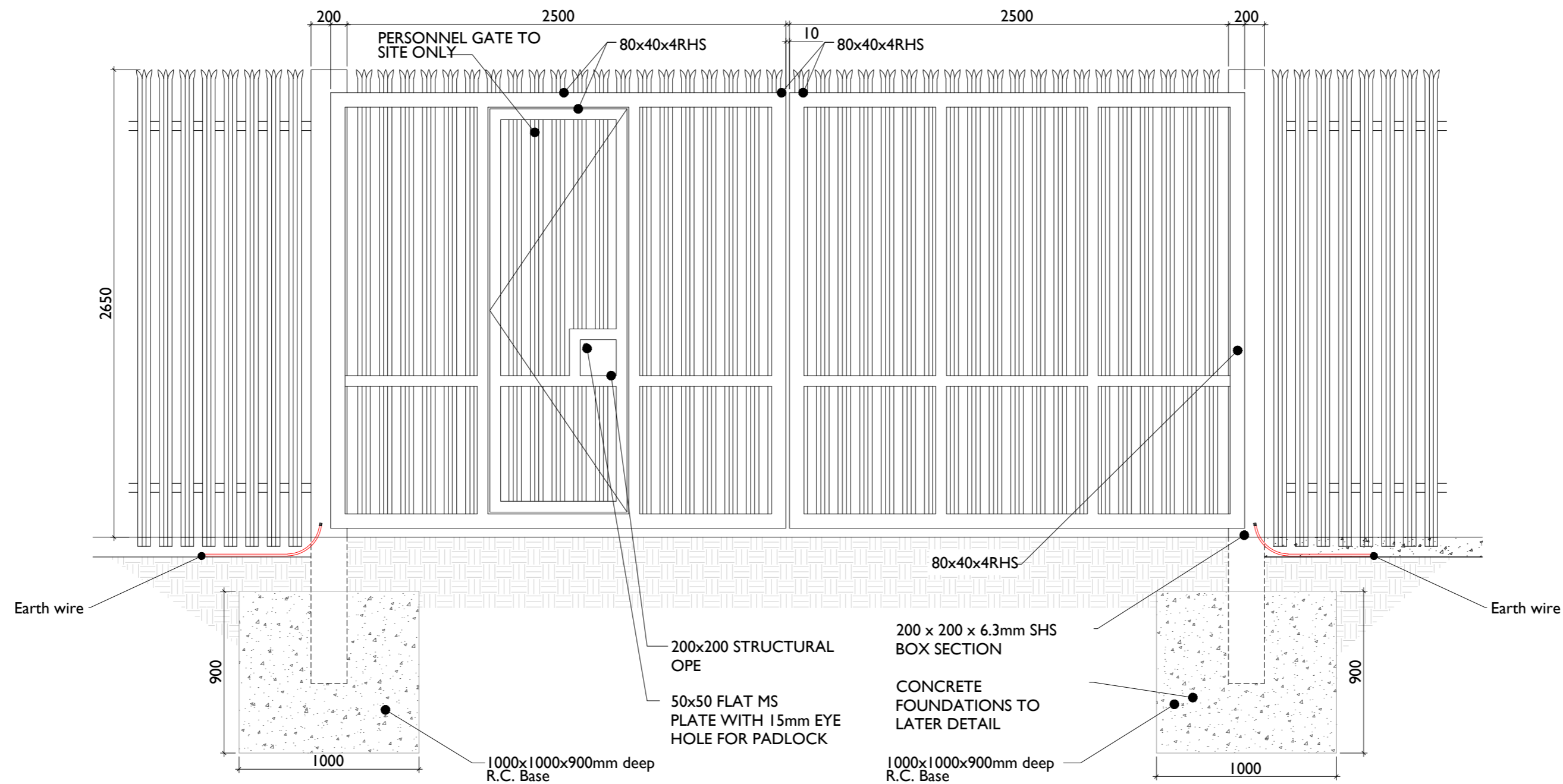
ISSUE/REVISION

I/R	DATE	DESCRIPTION
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



Palisade Fencing Details - Elevation
SCALE 1:25

Palisade Fencing Details - Section
SCALE 1:25



Typical Gate Elevation
SCALE 1:25

PROJECT

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

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NOTES: -

LEGEND: -

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
P4	12.12.23	Issued for Planning
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P1	14.10.22	Issued for Information

PROJECT NUMBER

05-923

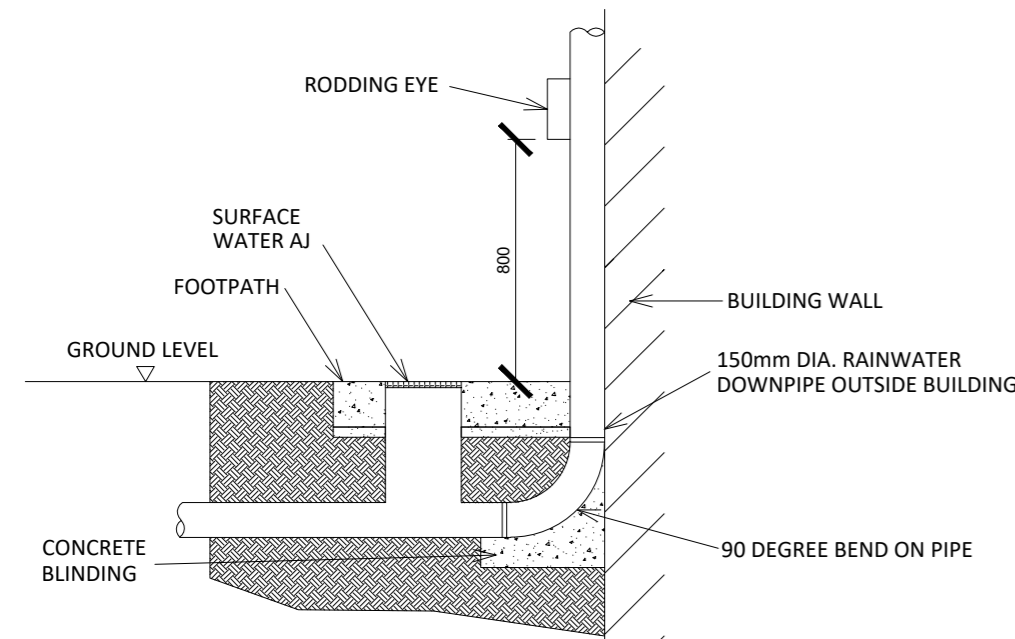
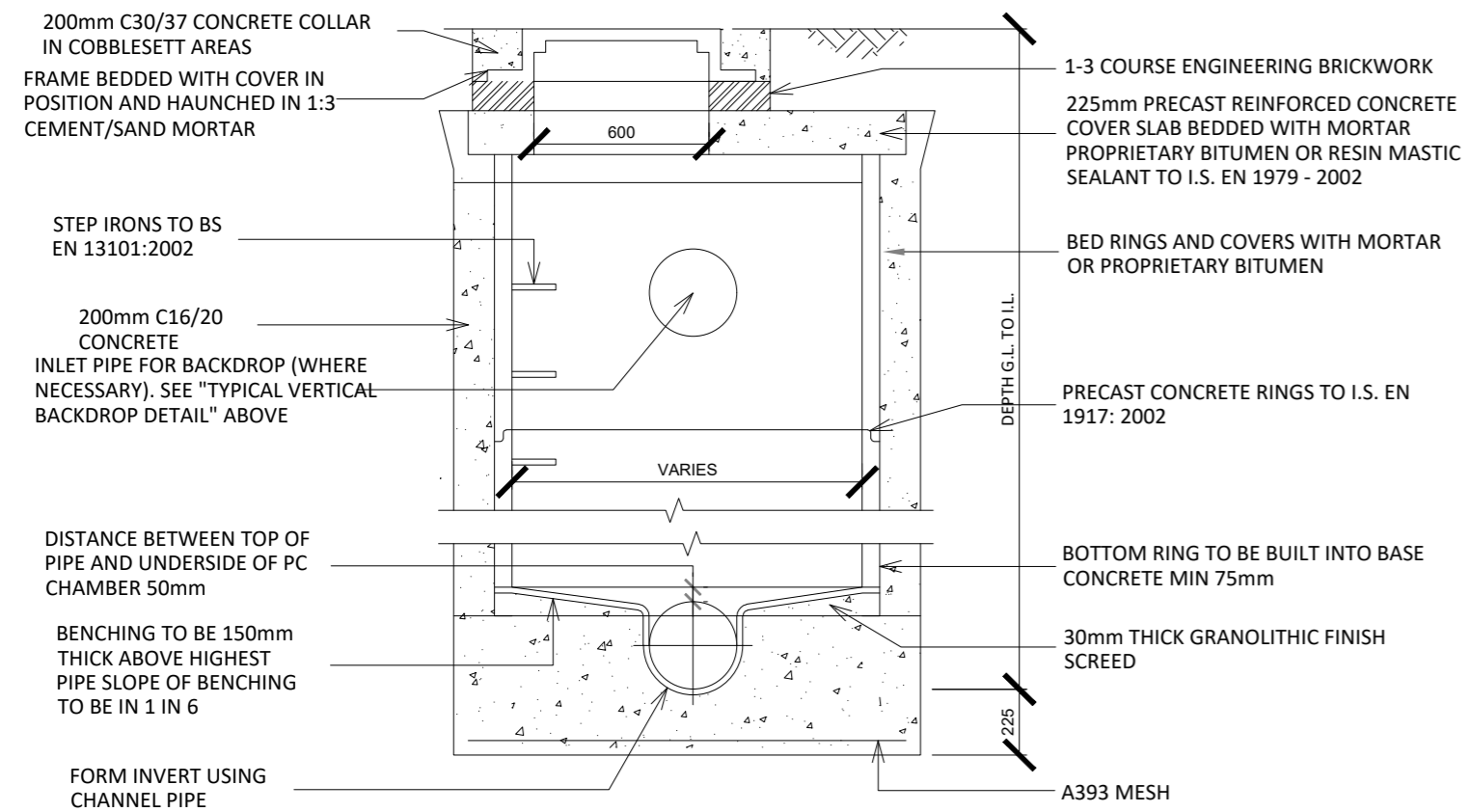
SHEET TITLE

Gate & Fence Details

SHEET NUMBER

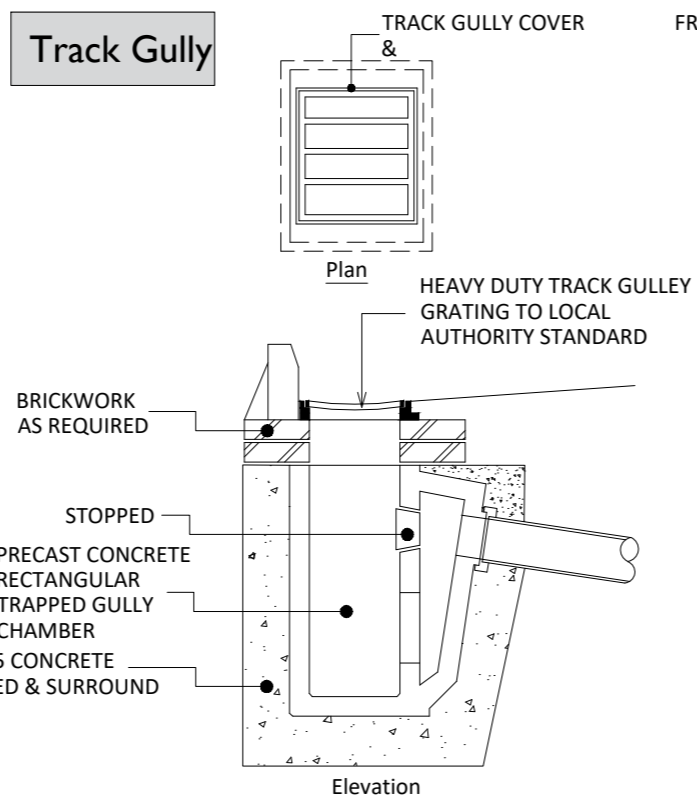
05923-DR-135

Manhole



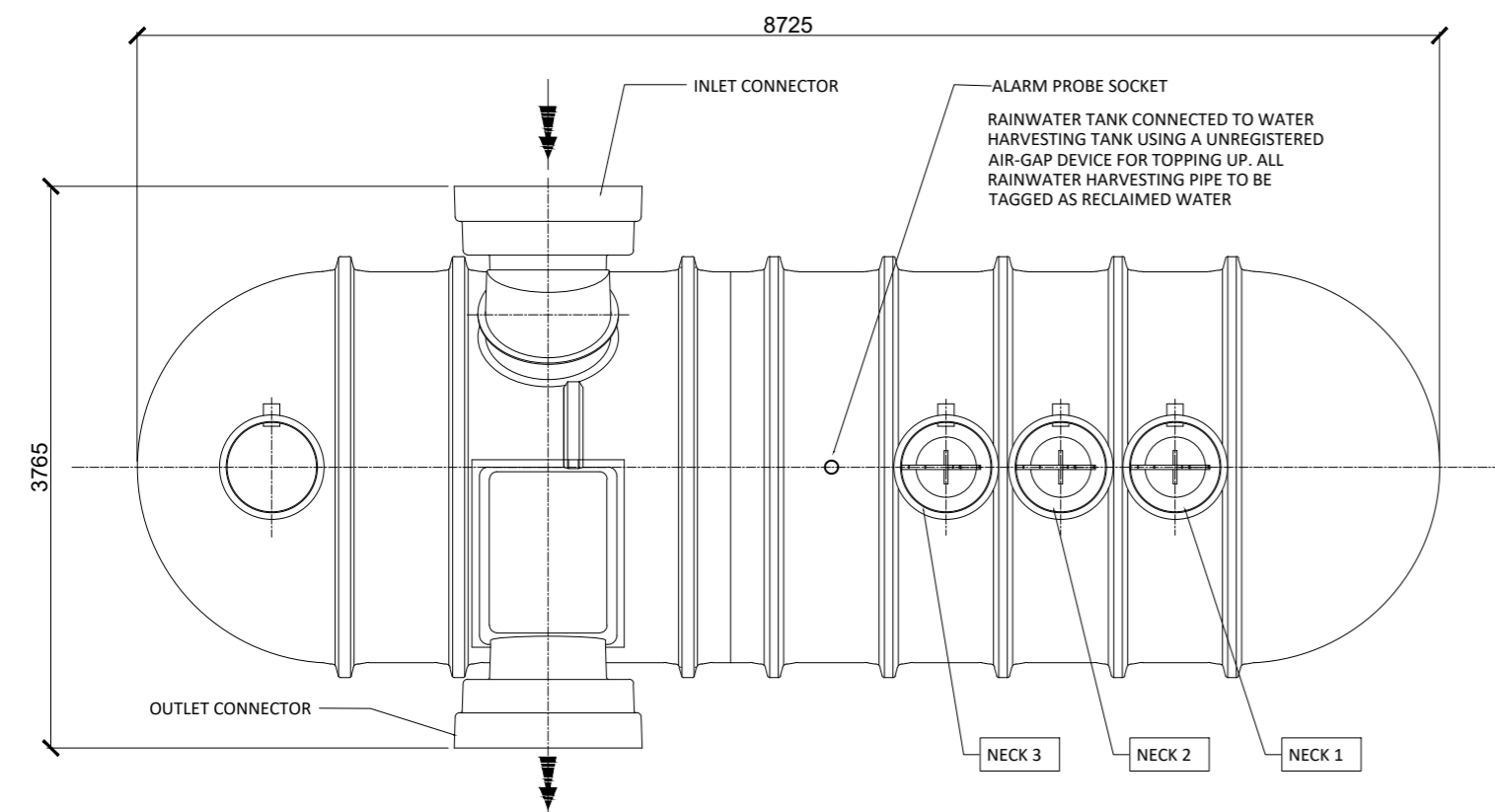
Typical Rainwater Downpipe Detail - Elevation
Scale : 1:25

Track Gully



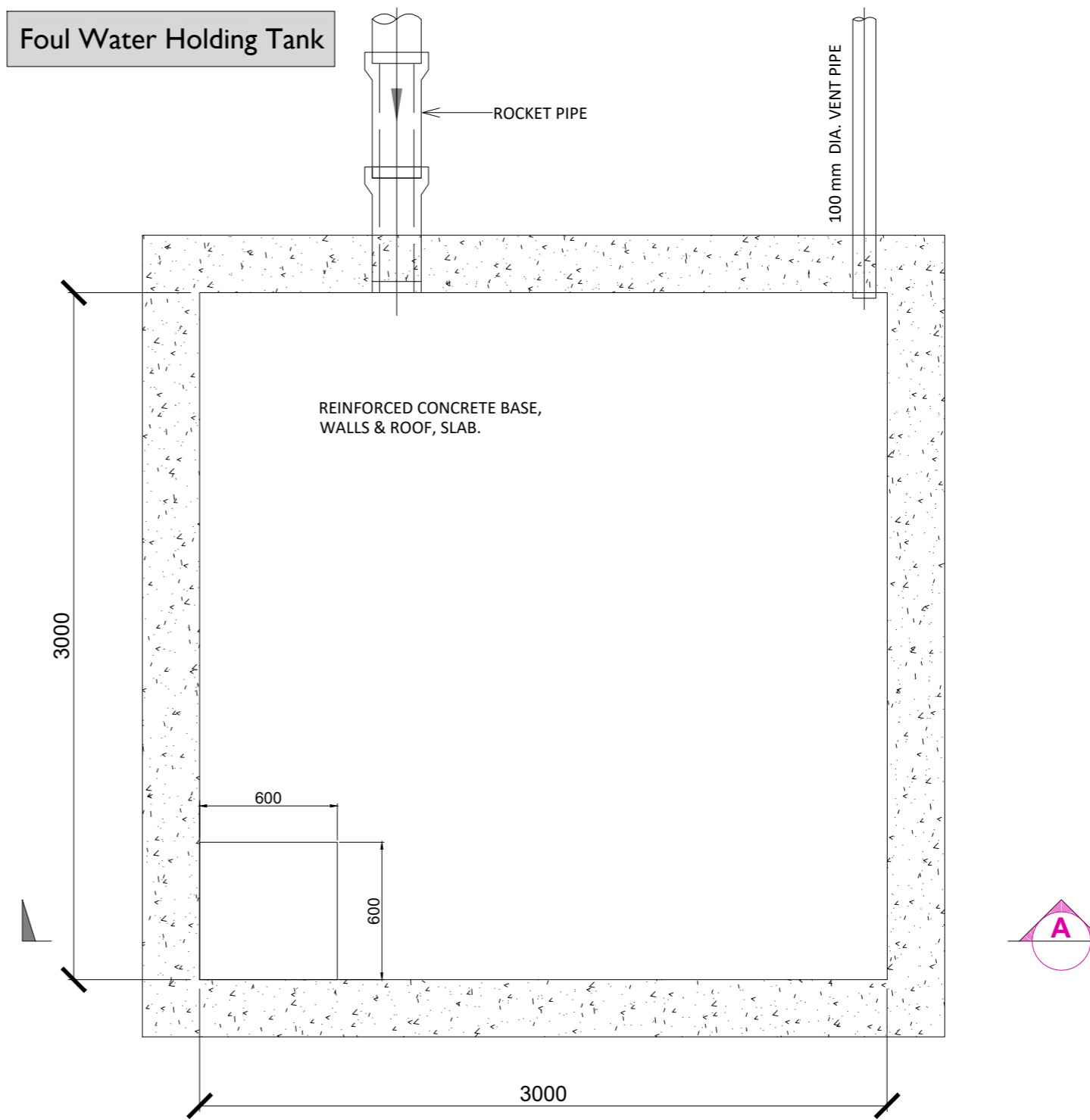
Typical Track Gully Detail
Scale : 1:25

Retention Separator Tank



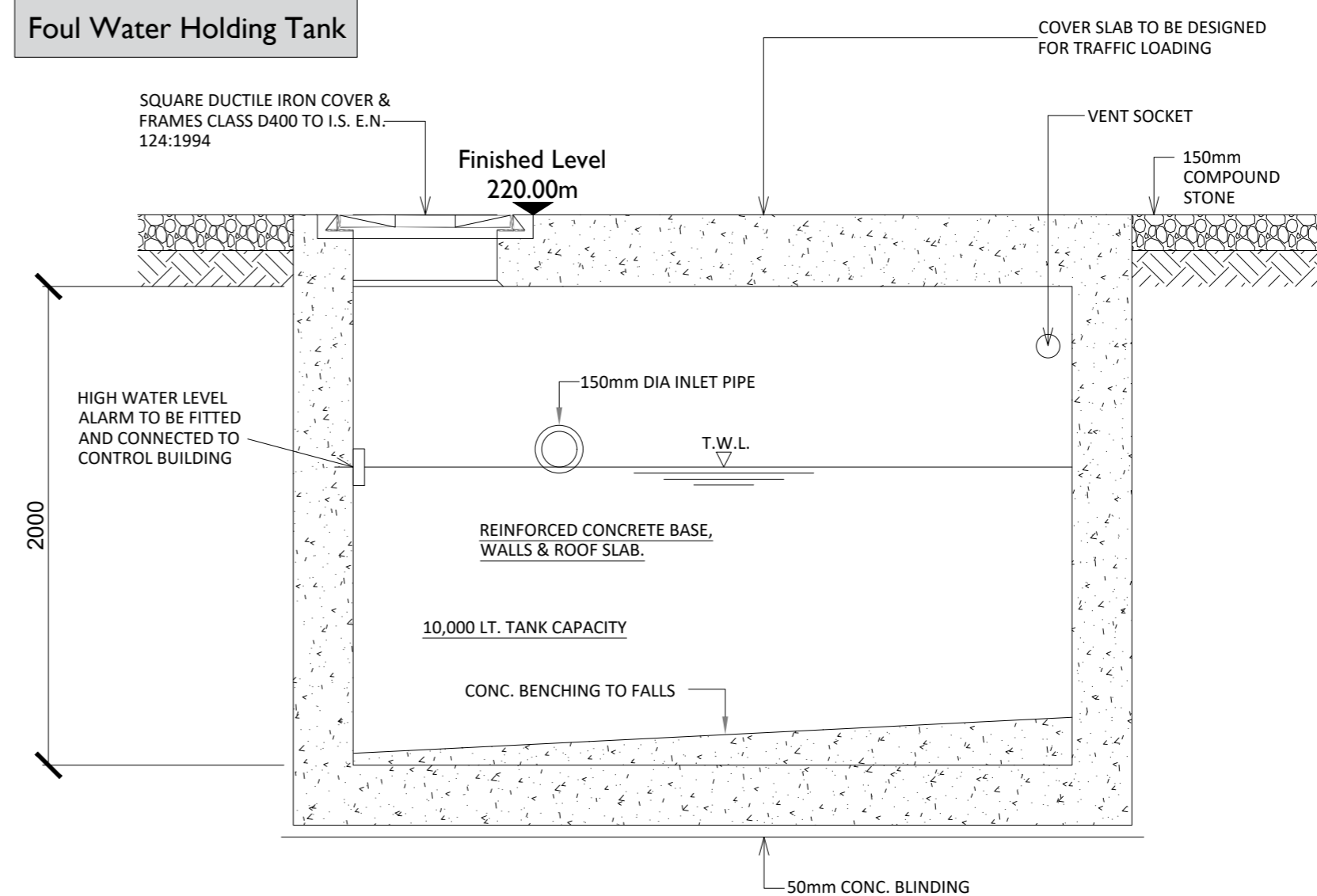
Typical Retention Separator Tank - Plan
Scale : 1:50

Foul Water Holding Tank



Typical Foul Water Holding Tank - Plan
Scale : 1:25

Foul Water Holding Tank



Typical Foul Water Holding Tank - Elevation
Scale : 1:25

PROJECT

Ballycar Wind Farm
110kV UGC Grid
Connection

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LEGEND:-

ISSUE/REVISION

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P1	14.10.22	Issued for Planning

PROJECT NUMBER

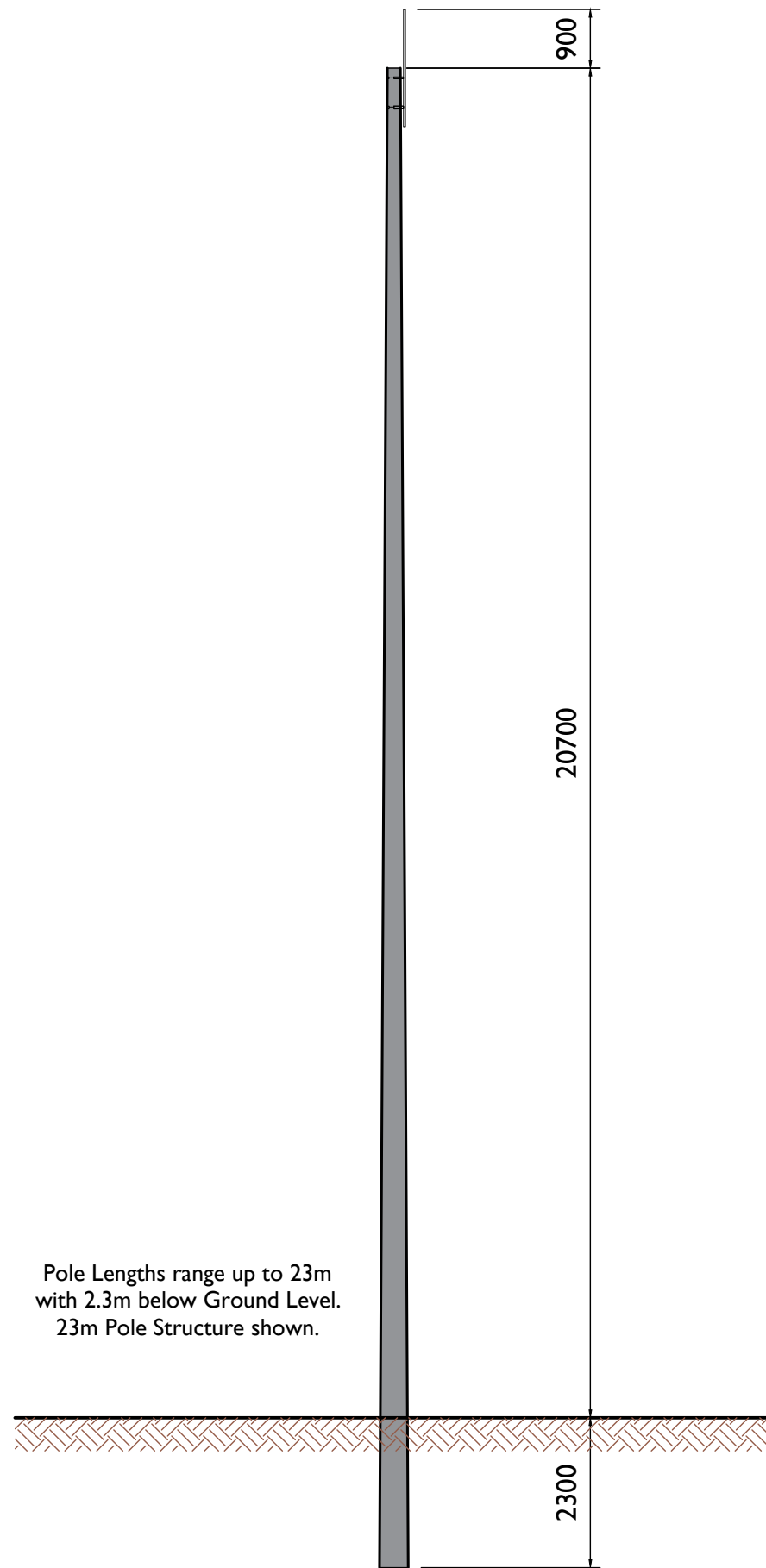
05-923

SHEET TITLE

Substation Compound drainage,
Retention separator tank, Foul
water holding tank details

SHEET NUMBER

05923-DR-136



Pole Lengths range up to 23m with 2.3m below Ground Level. 23m Pole Structure shown.

FRONT ELEVATION

Scale 1:100



Head Office
 Beenreigh,
 Abbeydorney,
 Tralee, Co. Kerry
 Ireland
 Tel: 00353 66 7135710

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

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

ISSUE/REVISION

I/R	DATE	DESCRIPTION
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

ISO A1 594mm x 841mm

PROJECT

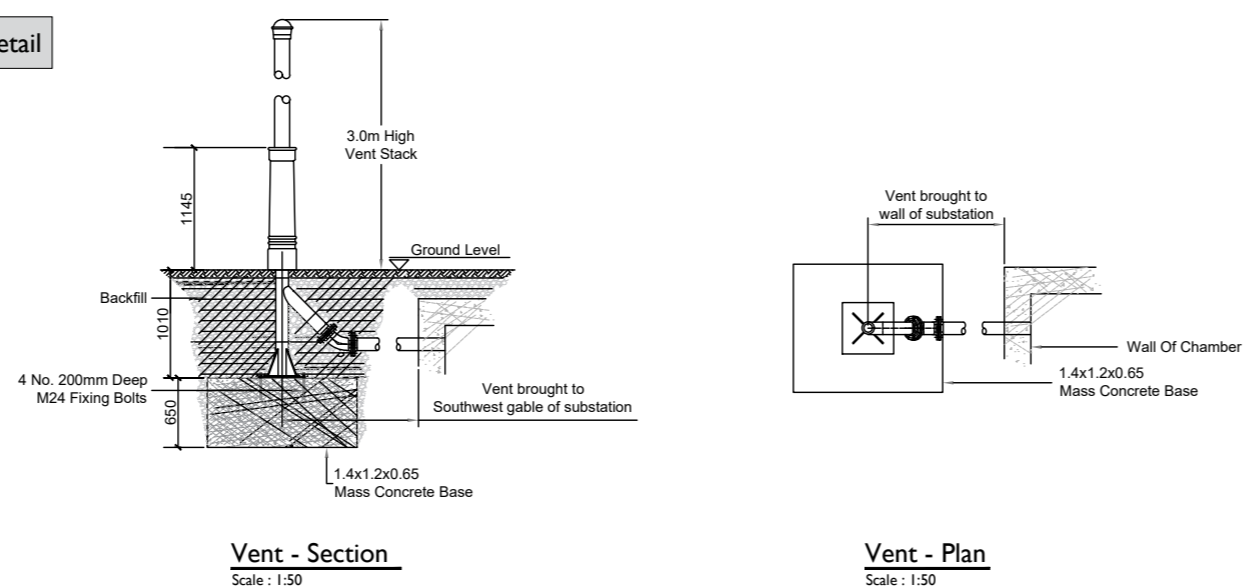
**Ballycar Wind Farm
 110kV Grid Connection**

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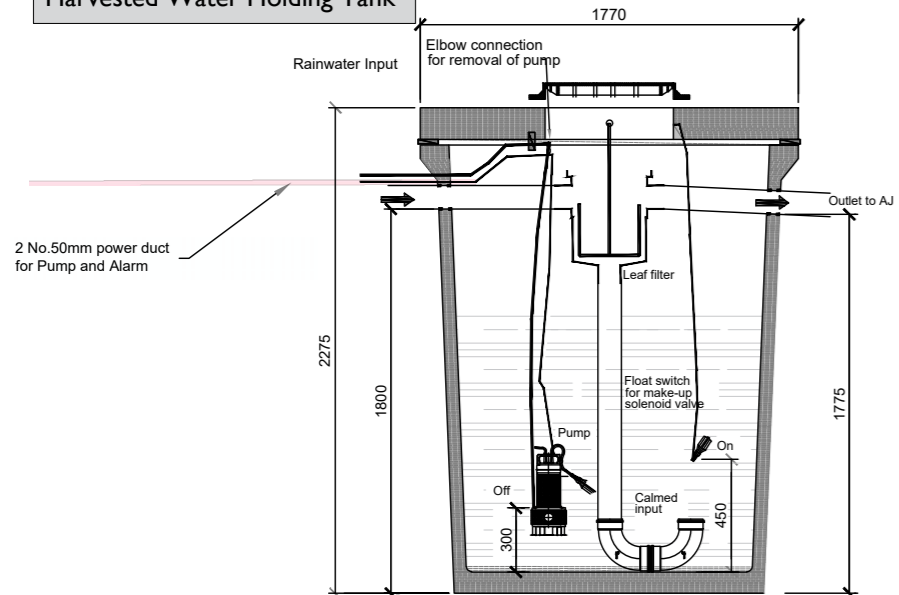
CONSULTANTS

Vent Stack detail

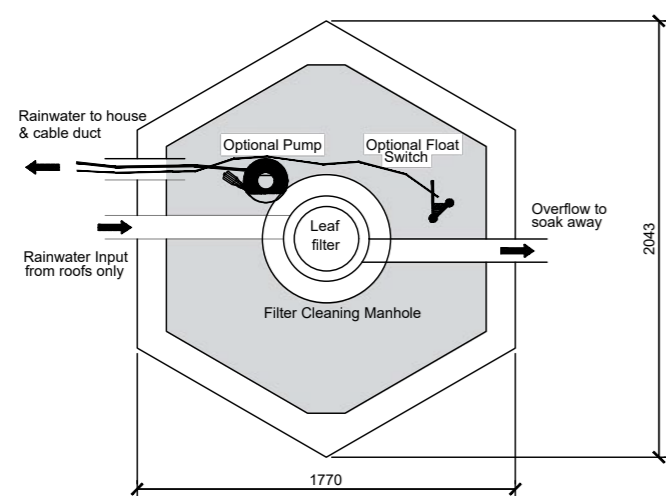
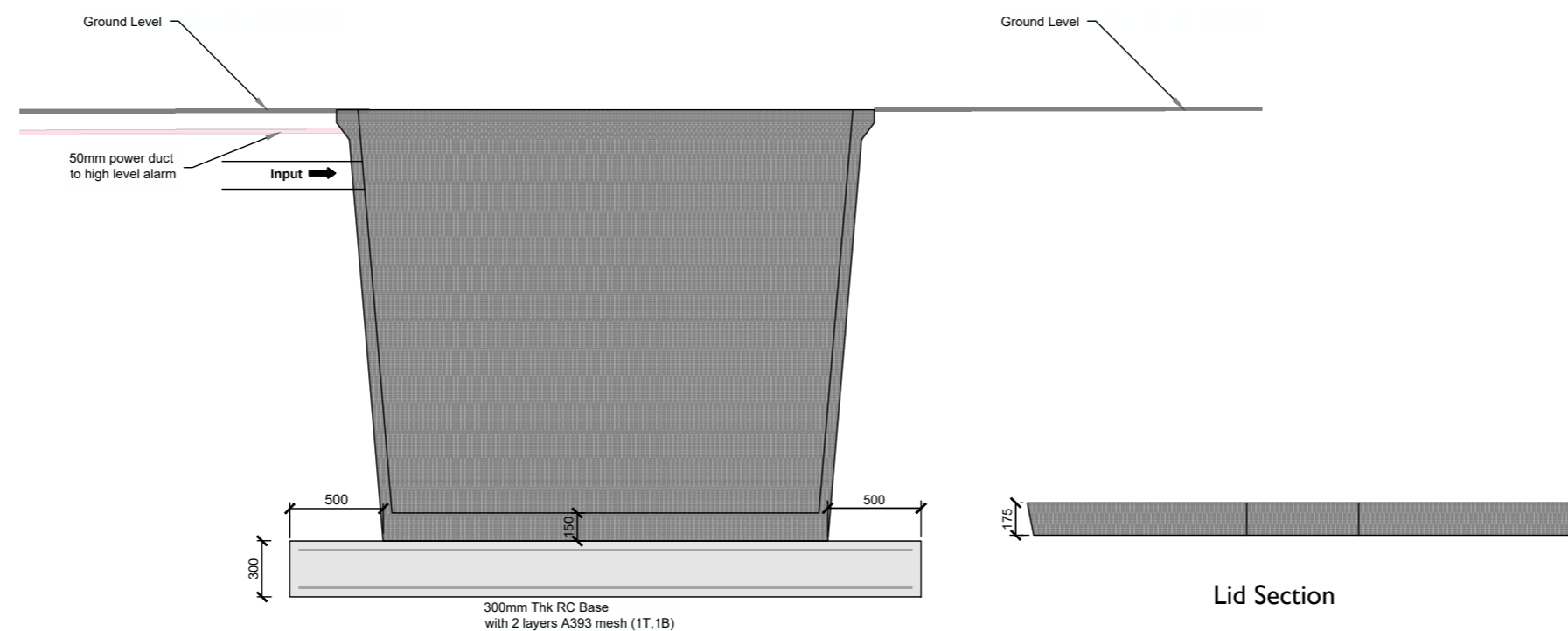


3500 litre Rainwater harvesting tank complete with overflow, pump, with 30 micron & 5 micron filtration & uv sterilisation system to allow rainwater to be re-used as potable water

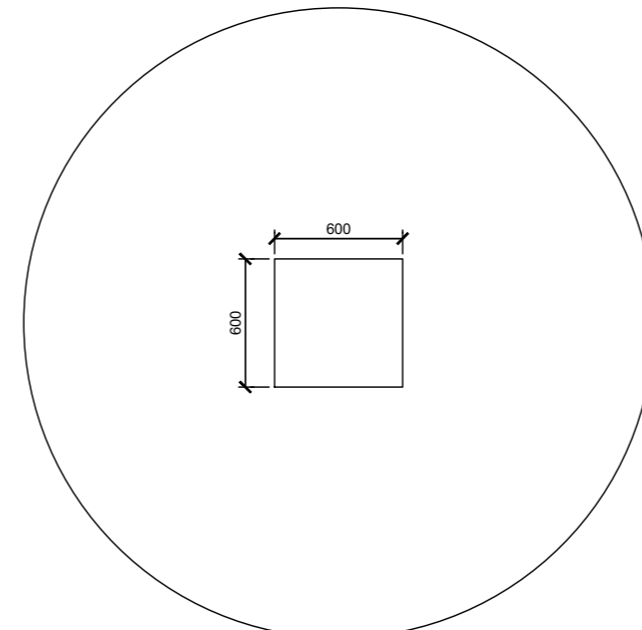
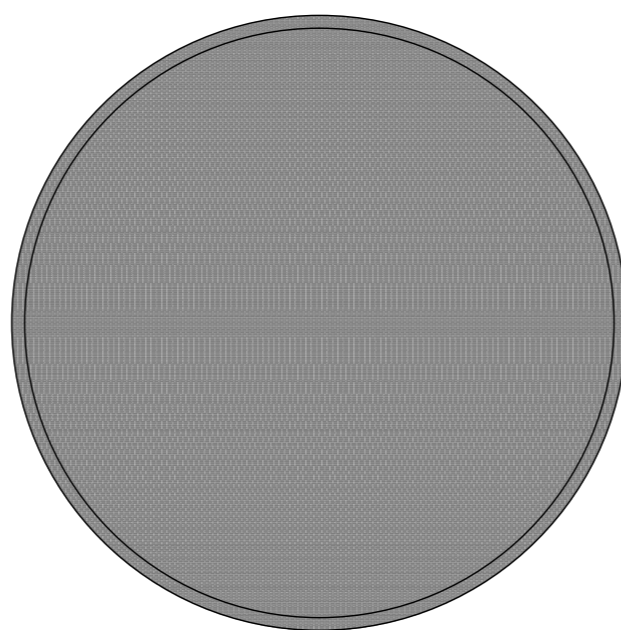
Harvested Water Holding Tank



Harvested Holding Tank backfilled with 6F2 Stone fill



Rain Water Harvesting - H+ Tank (3,500 Litres)
 Scale : 1:25



Harvested Holding Tank (Volume 5m³)
 Scale : 1:25

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LEGEND: -

ISSUE/REVISION

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PROJECT NUMBER

05-923

SHEET TITLE

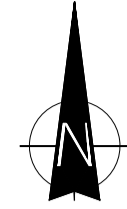
Rain Water Harvesting Tank & Vent details

SHEET NUMBER

05923-DR-138

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

ISO A1 594mm x 841mm



Map Series:
1:2500 Prime Data Raster
Reference No.'s
4622.4563,4562,4621
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CYAL50261649
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Finished Ground Level: 220m
CUT VOLUME: 16916 m³
FILL VOLUME: 53268 m³
Slope: 2:1 [hor:vert]



Head Office
Beenrigh,
Abbeydonney,
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

APPLICANT



CONSULTANTS

NOTES: -

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LEGEND: -

- Cut Volume
- Fill Volume
- Access track

ISSUE/REVISION

I/R	DATE	DESCRIPTION
P6	12.01.24	Issued for Planning
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PROJECT NUMBER

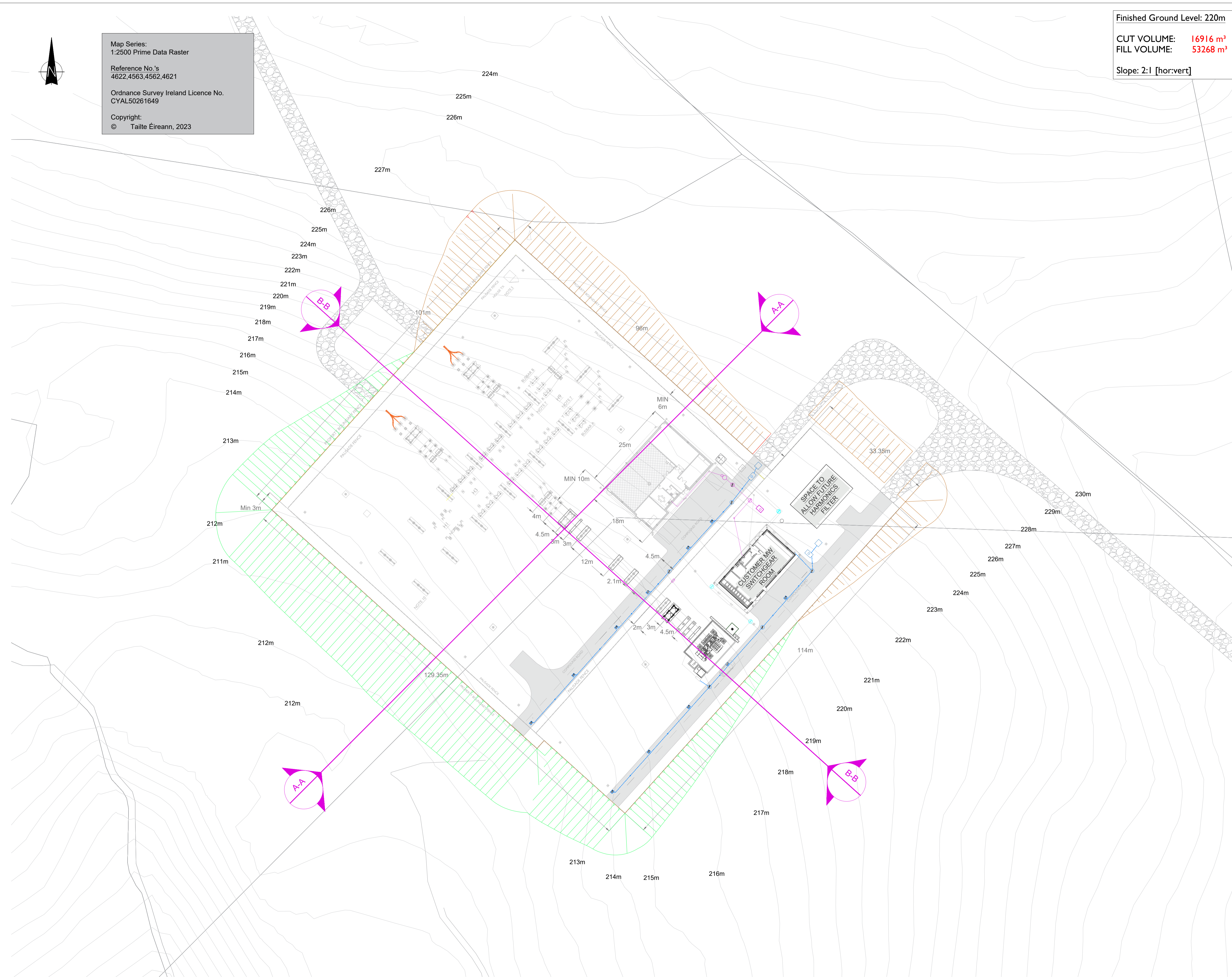
05-923

SHEET TITLE

Cut & Fill Area
Layout Plan

SHEET NUMBER

05923-DR-139



Cut & Fill Area - Layout Plan
Scale - 1:500

Project Management Initials: Designer: J.C Checked: G.C Approved: DB

Finished Ground Level: 220m

CUT VOLUME: 16916 m³
 FILL VOLUME: 53268 m³

Slope: 2:1 [hor:vert]



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**

APPLICANT



CONSULTANTS

NOTES: -

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LEGEND: -

- Cut Volume
- Fill Volume

ISSUE/REVISION

NO	DATE	DESCRIPTION
P5	12.01.24	Issued for Planning
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P3	06.11.23	Issued for Planning
P2	12.01.23	Issued for Planning
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

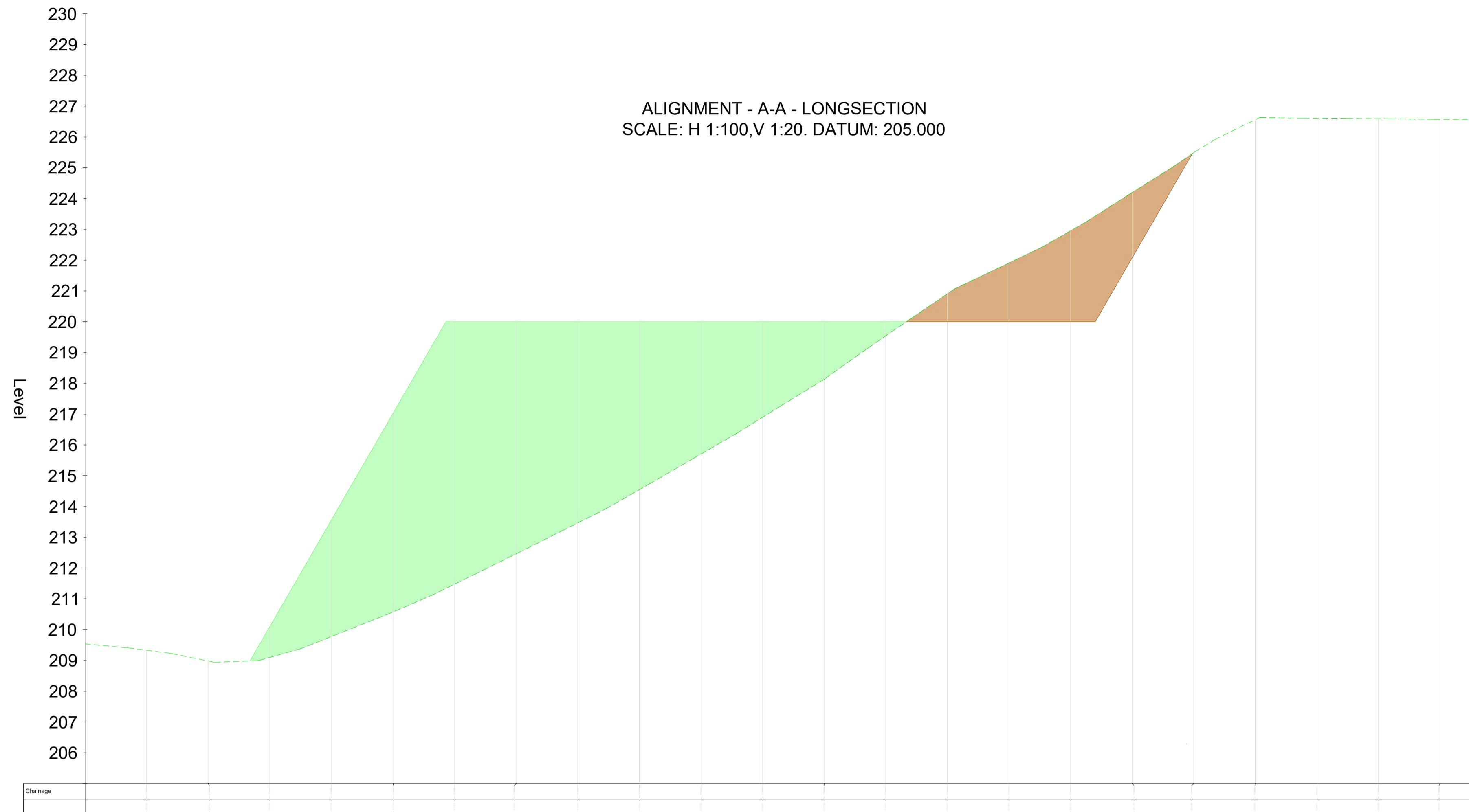
05-923

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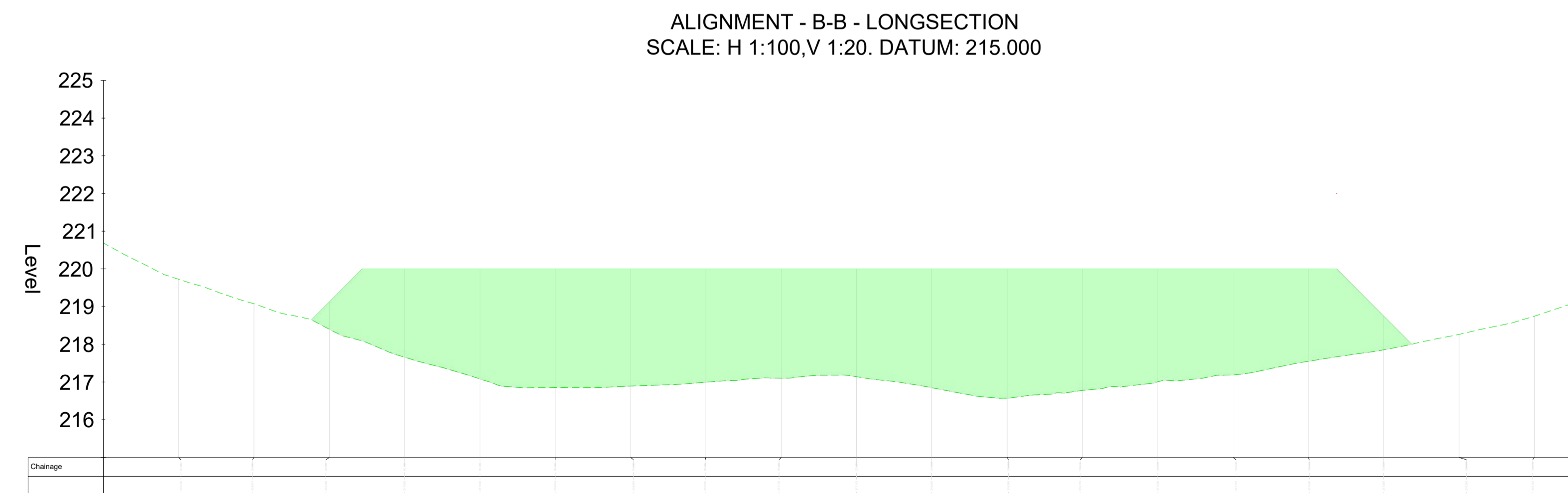
Substation Site Sections

SHEET NUMBER

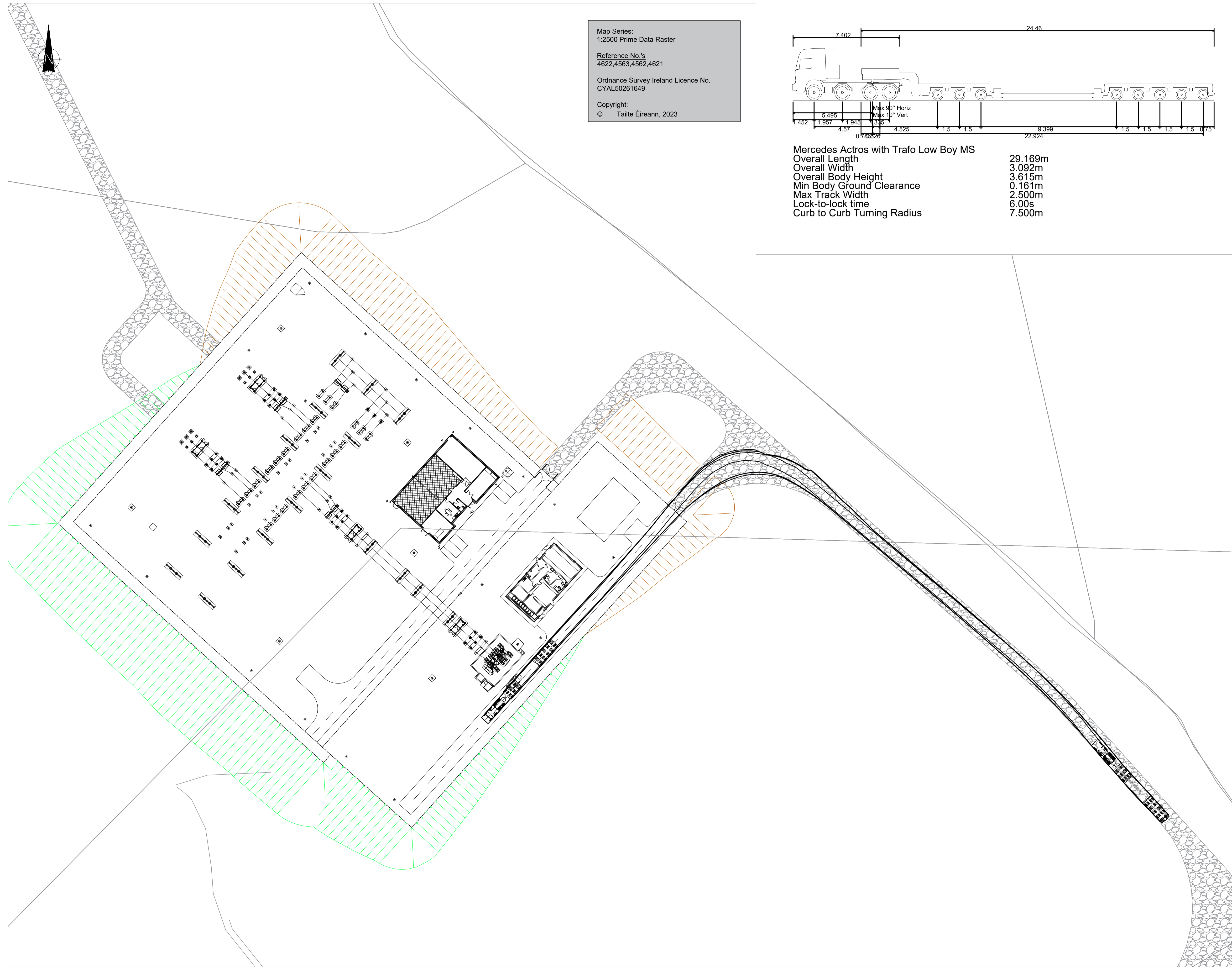
05923-DR-140



Section A-A
 Scale: - H 1:100 V 1:500



Section B-B
 Scale: - H 1:100 V 1:500

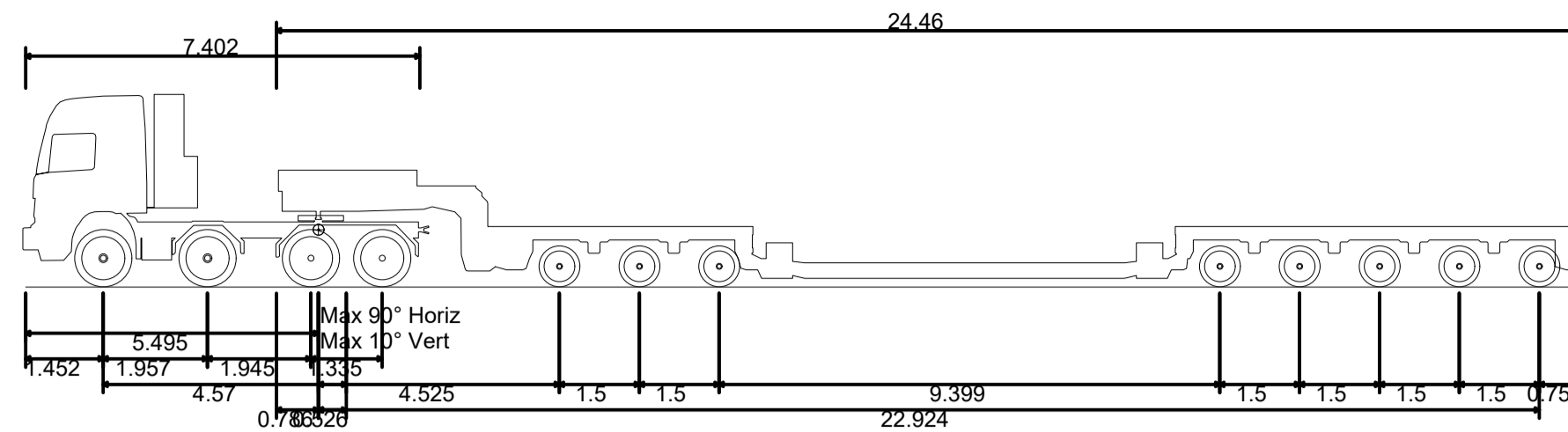


Map Series:
1:2500 Prime Data Raster

Reference No.'s
4622.4563.4562.4621

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Mercedes Actros with Trafo Low Boy MS

Overall Length	29.169m
Overall Width	3.092m
Overall Body Height	3.615m
Min Body Ground Clearance	0.161m
Max Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	7.500m

PROJECT

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

APPLICANT



CONSULTANTS

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

- LEGEND: -**
- Cut Volume
 - Fill Volume
 - Access track

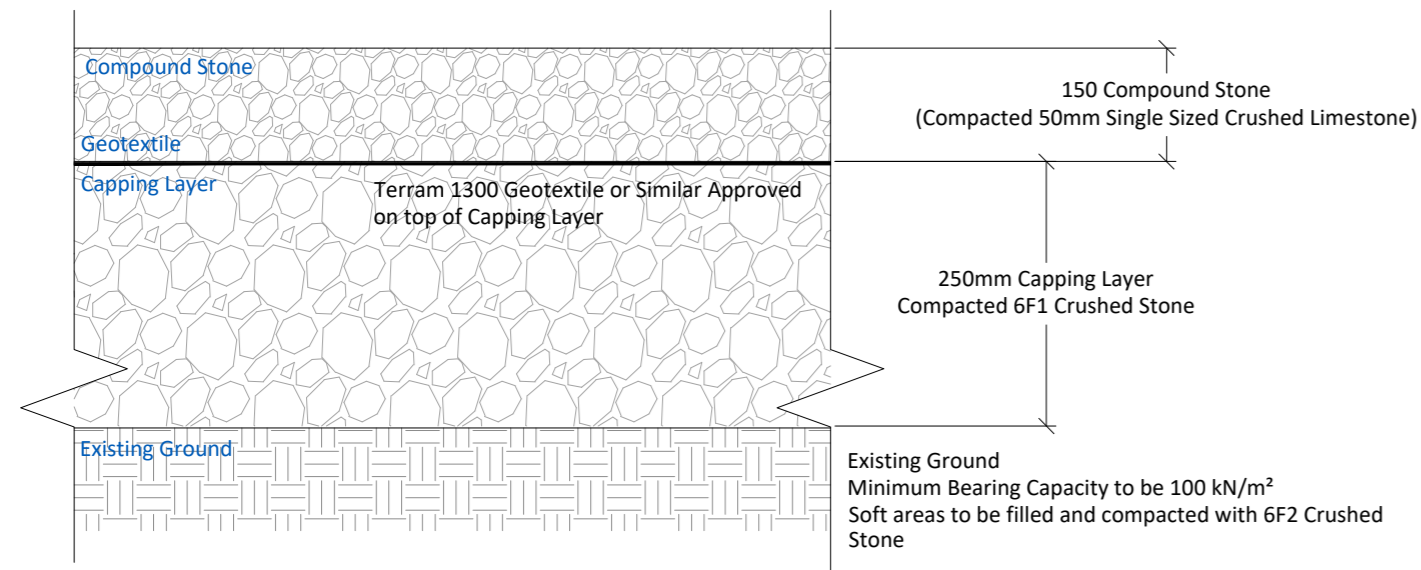
ISSUE/REVISION

I/R	DATE	DESCRIPTION
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P3	12.12.23	Issued for Information
P2	05.12.23	Issued for Information
P1	06.11.23	Issued for Information

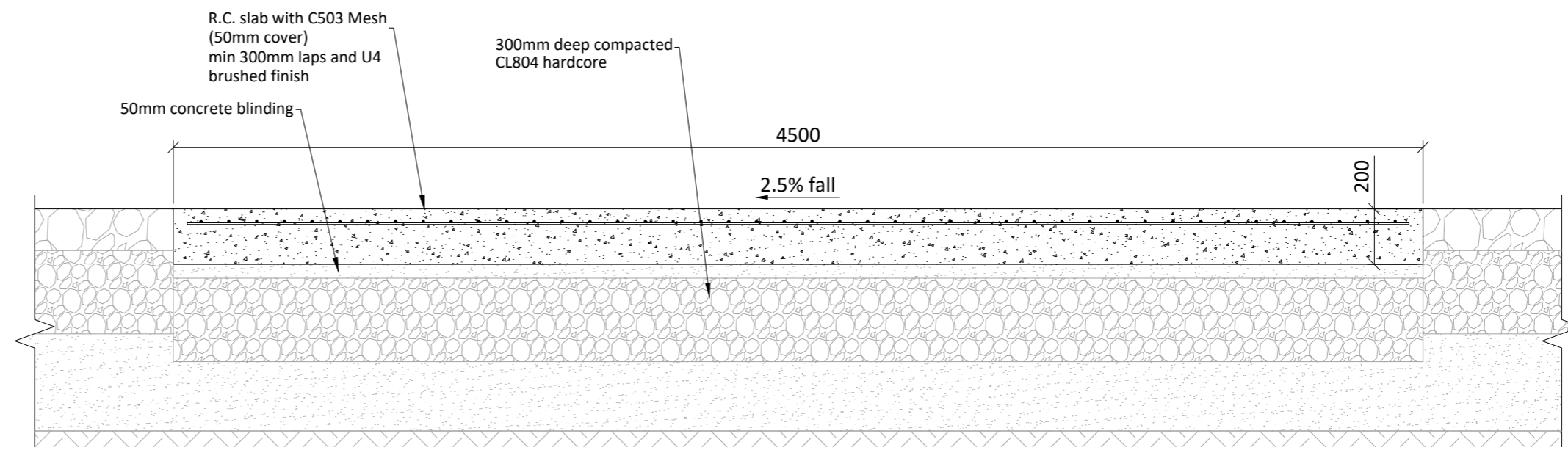
PROJECT NUMBER
05-923

SHEET TITLE
Autotrack Layout Plan

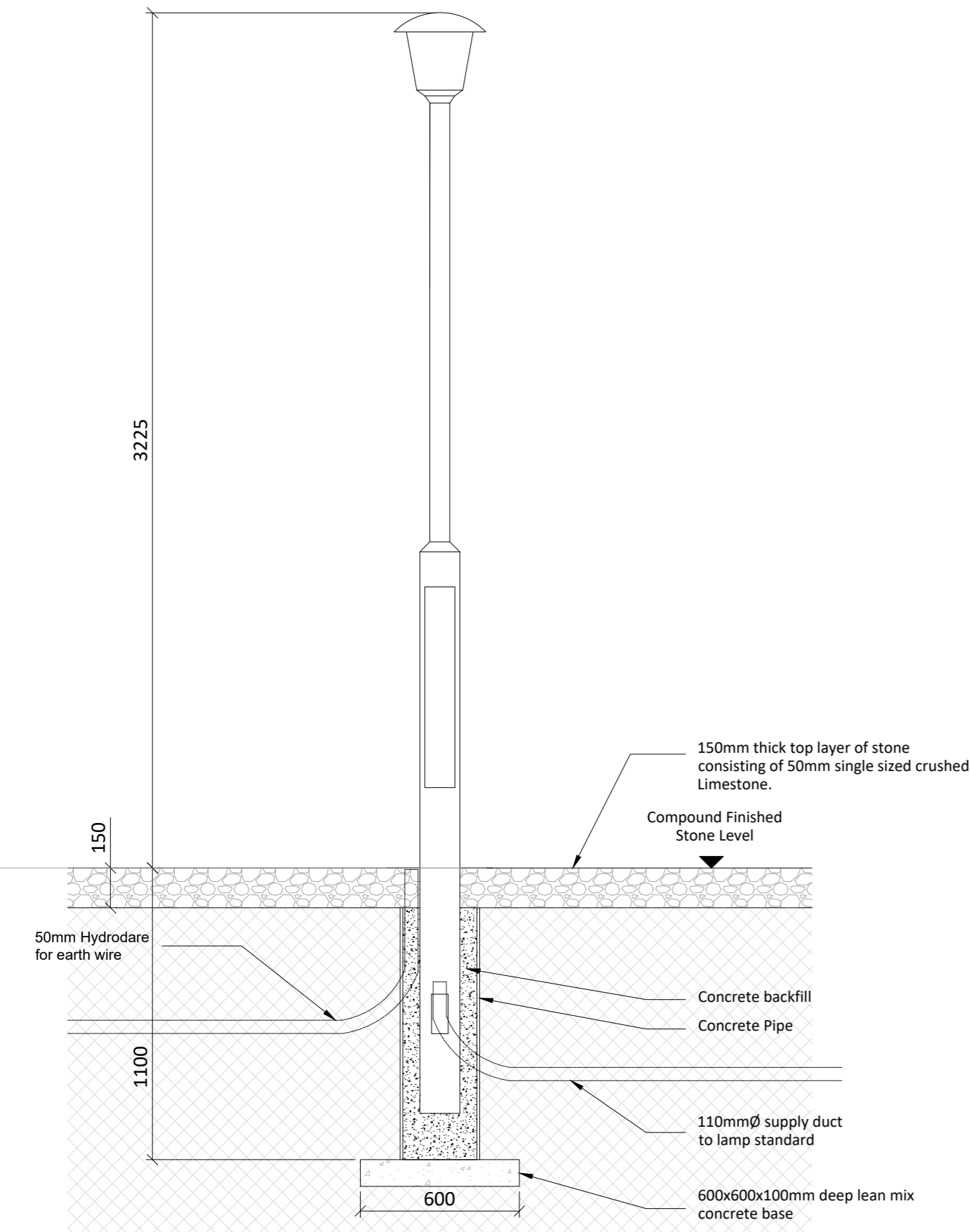
SHEET NUMBER
05923-DR-141



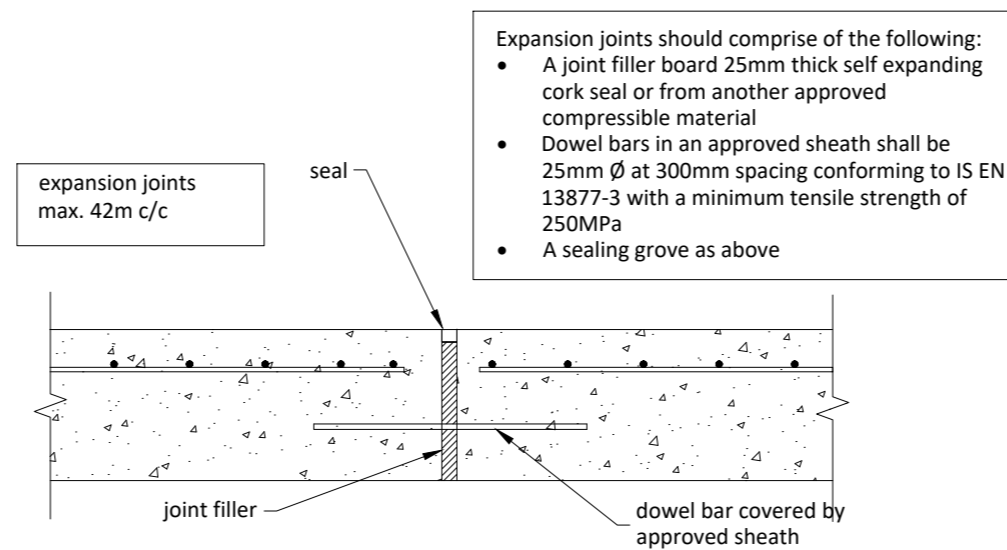
Typical Compound Detail
SCALE 1:10



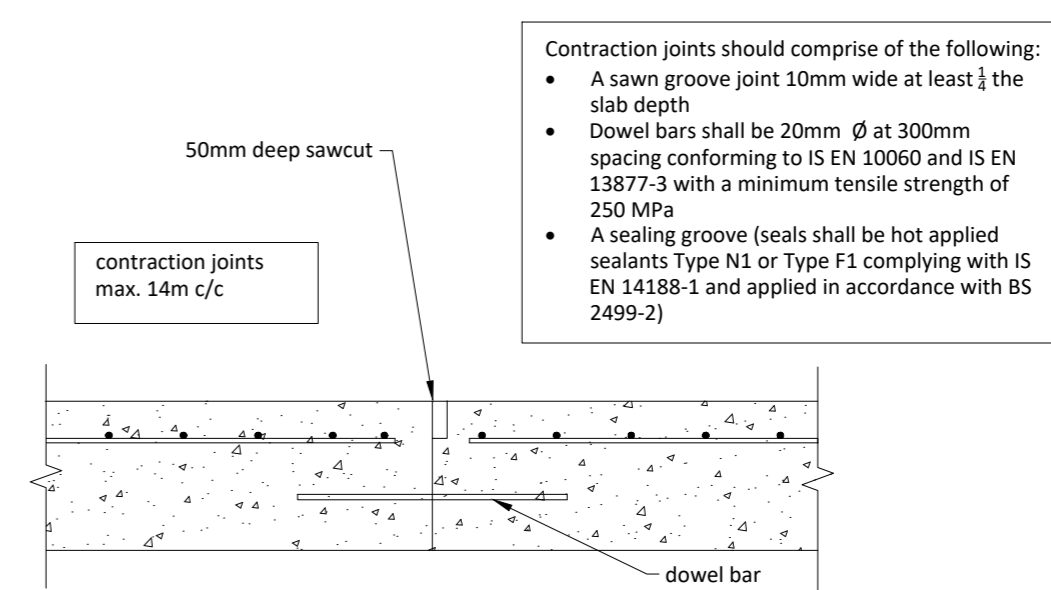
Typical Section - Concrete Access Track
SCALE 1:20



Lighting Column & Surround Detail
SCALE 1:20



Concrete Access Track Expansion Joint
SCALE 1:10



Concrete Access Track Contraction Joint
SCALE 1:10

PROJECT

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

CLIENT



CONSULTANTS

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

LEGEND: -

ISSUE/REVISION

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

PROJECT NUMBER

05-923

SHEET TITLE

Substation Compound Details

SHEET NUMBER

05923-DR-142