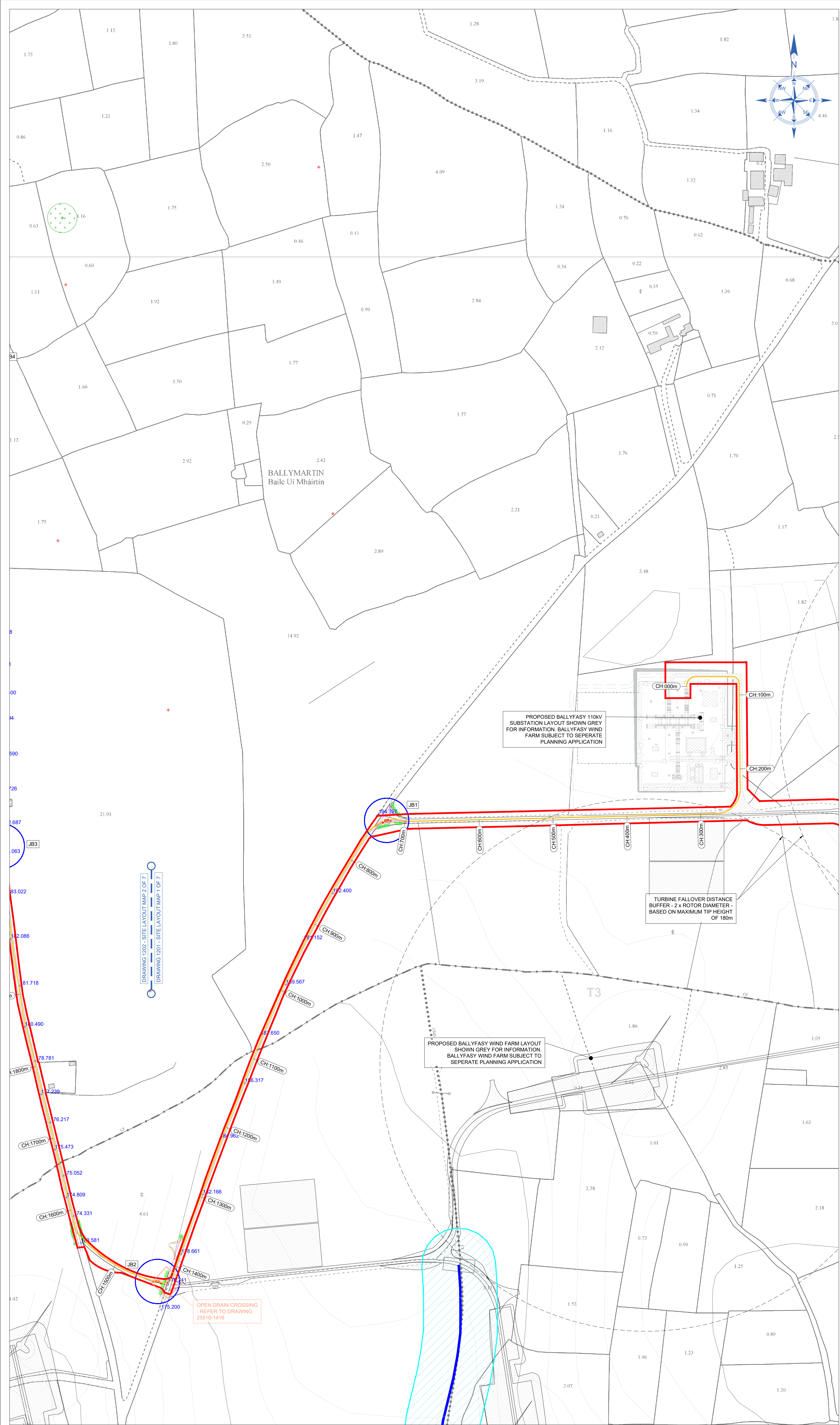


[illegible]



NOTES:  
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.  
2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.  
3. TAILTE EIREANN MAPPING  
3.1. MAP SERIES: 1:5000 RASTER  
3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379  
4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE, COMPOUNDS AND WORK AREAS AND ASSOCIATED INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION

LEGEND:  

RED LINE BOUNDARY

GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD

GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED

CH:000m GRID CHAINAGE

LOCATION OF DIRECTIONAL DRILLING COMPOUND

LOCATION OF GRID CROSSING

JB(No.) LOCATION OF JOINT BAY (No.); SEE DRAWING 1421  
COMMS CHAMBER (No.); SEE DRAWING 1423  
AND EARTH LINK BOX (No.); SEE DRAWING 1424  
(No.) = Number

SOUTH LEINSTER WAY

EXISTING WATERCOURSE

EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE

EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA

SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC

SITE AND MONUMENTS RECORD ZONE

215.163 LEVELS

198.000 EXISTING GROUND LEVEL

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REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION

PLANNING

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Email: info@mable.ie  
Website: www.mable.ie

CLIENT: MANOGATE LTD.

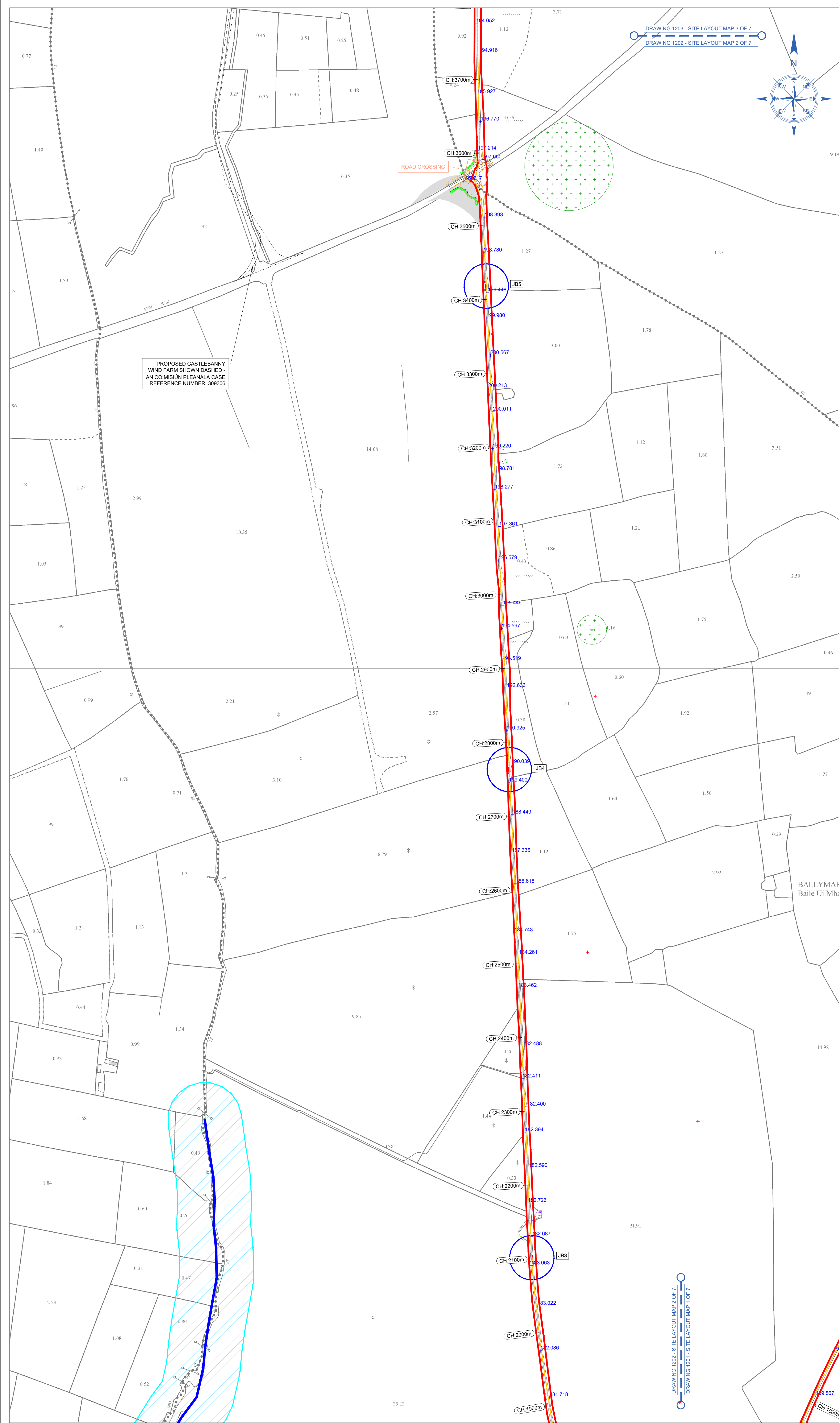
JOB TITLE: BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY

DRG. TITLE: GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 1 OF 7

DRAWN:	ER	SCALE: 1:2500 @ A1
DATE:	18/06/2025	JOB NO.
DES. BY:	ER	DRG. NO.
CHK. BY:	BMG	25516
APP. BY:	BMG	1201

REV.	P2
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**NOTES:**  
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.  
2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.  
3. TAILTE EIREANN MAPPING  
3.1. MAP SERIES: 1:5000 RASTER  
3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379  
4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION

**LEGEND:**  

RED LINE BOUNDARY

GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD

GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED

CH:000m

GRID CHAINAGE

LOCATION OF DIRECTIONAL DRILLING COMPOUND

LOCATION OF GRID CROSSING

JB(No.)

LOCATION OF JOINT BAY (No.); SEE DRAWING 1421 COMMS CHAMBER (No.); SEE DRAWING 1423 AND EARTH LINK BOX (No.), SEE DRAWING 1424

(No.) = Number

SOUTH LEINSTER WAY

EXISTING WATERCOURSE

EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE

EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA

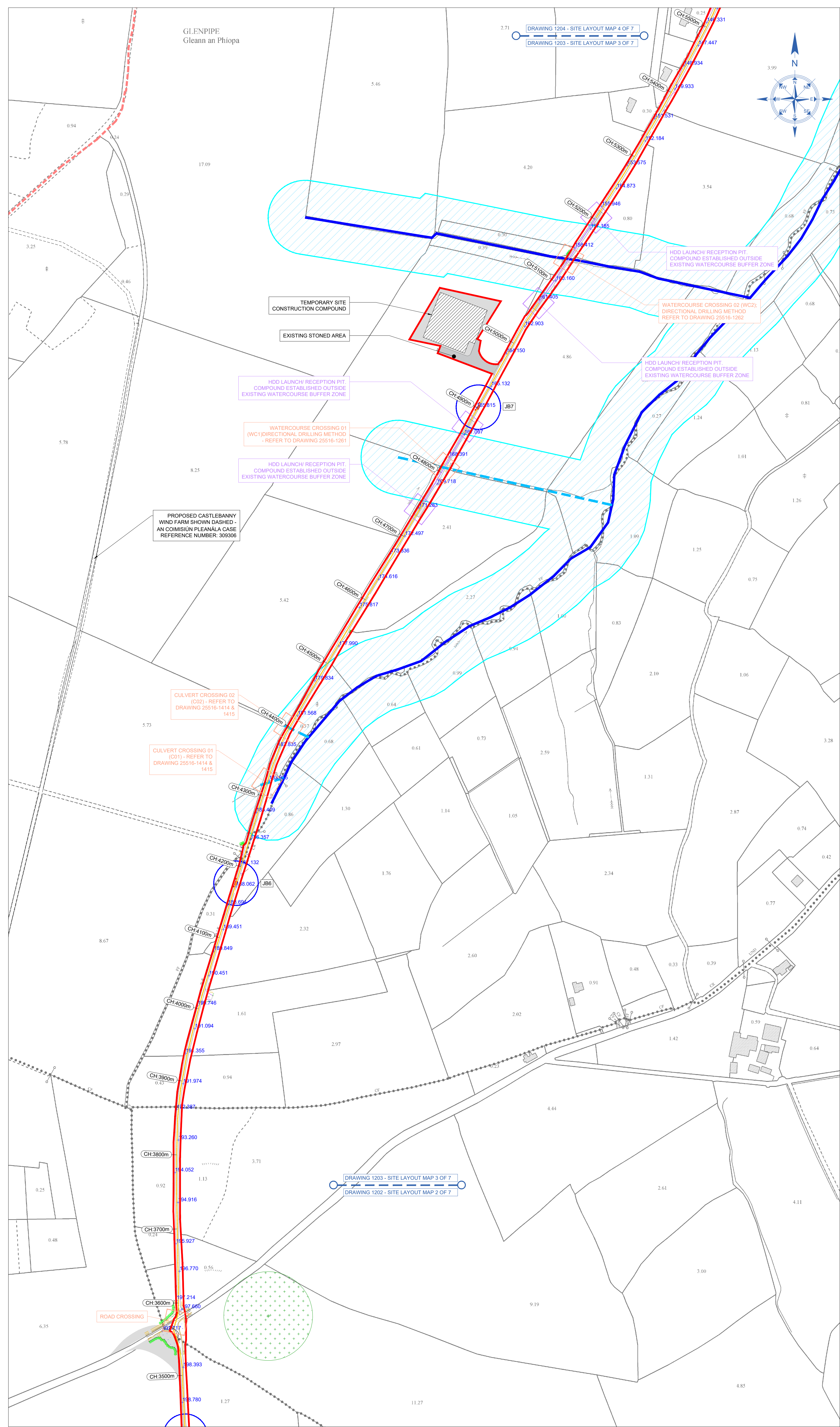
SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC

SITE AND MONUMENTS RECORD ZONE

LEVELS

EXISTING GROUND LEVEL





NOTES:  
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.  
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LEGEND:  

RED LINE BOUNDARY

GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD

GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED

GRID CHAINAGE

LOCATION OF DIRECTIONAL DRILLING COMPOUND

LOCATION OF GRID CROSSING

LOCATION OF JOINT BAY (No.); SEE DRAWING 1421  
COMMS CHAMBER (No.); SEE DRAWING 1423  
AND EARTH LINK BOX (No.); SEE DRAWING 1424  
(No.) = Number

SOUTH LEINSTER WAY

EXISTING WATERCOURSE

EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE

EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA

SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC

SITE AND MONUMENTS RECORD ZONE

LEVELS

EXISTING GROUND LEVEL

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REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION

PLANNING

Mable Consulting Engineers  
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Tel: +353(0)1 216 2956  
Email: info@mable.ie  
Website: www.mable.ie

CLIENT: MANOGATE LTD.

JOB TITLE: BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY

DRG. TITLE: GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 3 OF 7

DRAWN: ER

DATE: 18/06/2025

DES. BY: ER

CHK. BY: BMG

APP. BY: BMG

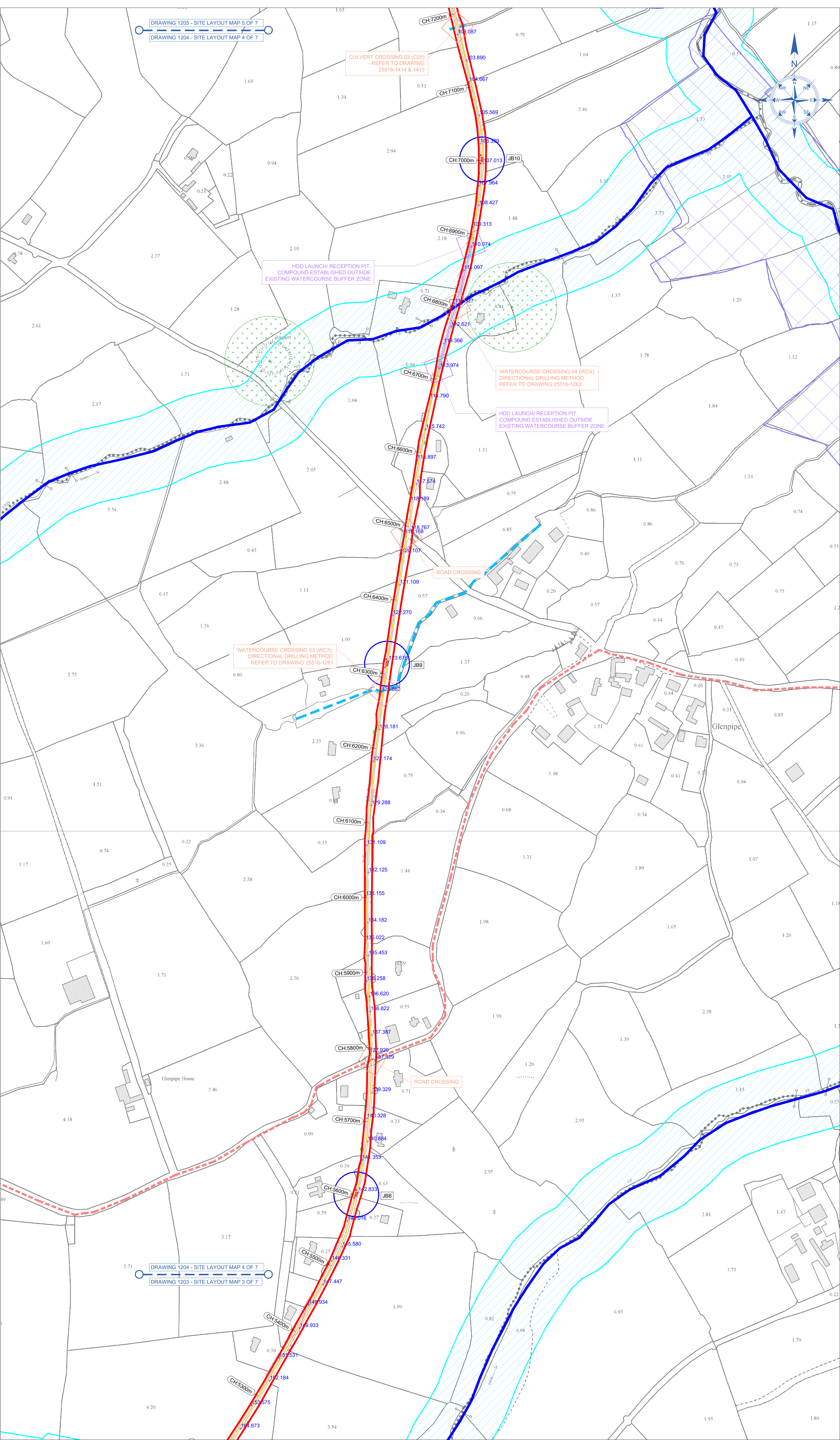
SCALE: 1:2500 @ A1

JOB NO. 25516

DRG. NO. 1203

REV. P2





- NOTES:
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
  3. TAILTE EIREANN MAPPING:
    - 3.1. MAP SERIES: 1:5000 RASTER
    - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
  4. THE IDENTIFIED LOCATION OF THE UNDERGROUND CABLE INFRASTRUCTURE DEVELOPMENT, INCLUDING JOINT BAYS, COMMUNICATION CHAMBERS AND PASSING BAYS, ARE TO BE AGREED WITH EIRGRID PRIOR TO CONSTRUCTION
- LEGEND:
- RED LINE BOUNDARY
  - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
  - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
  - GRID CHAINAGE (CH:000m)
  - LOCATION OF DIRECTIONAL DRILLING COMPOUND
  - LOCATION OF GRID CROSSING
  - LOCATION OF JOINT BAY (No.): SEE DRAWING 1421  
COMMS CHAMBER (No.): SEE DRAWING 1423  
AND EARTH LINK BOX (No.): SEE DRAWING 1424  
(No.) = Number
  - SOUTH LEINSTER WAY
  - EXISTING WATERCOURSE
  - EPA REGISTERED STREAM/SIGNIFICANT WATERCOURSE
  - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
  - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
  - SITE AND MONUMENTS RECORD ZONE
  - LEVELS (215.163)
  - EXISTING GROUND LEVEL (198.000)

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Consulting Engineers

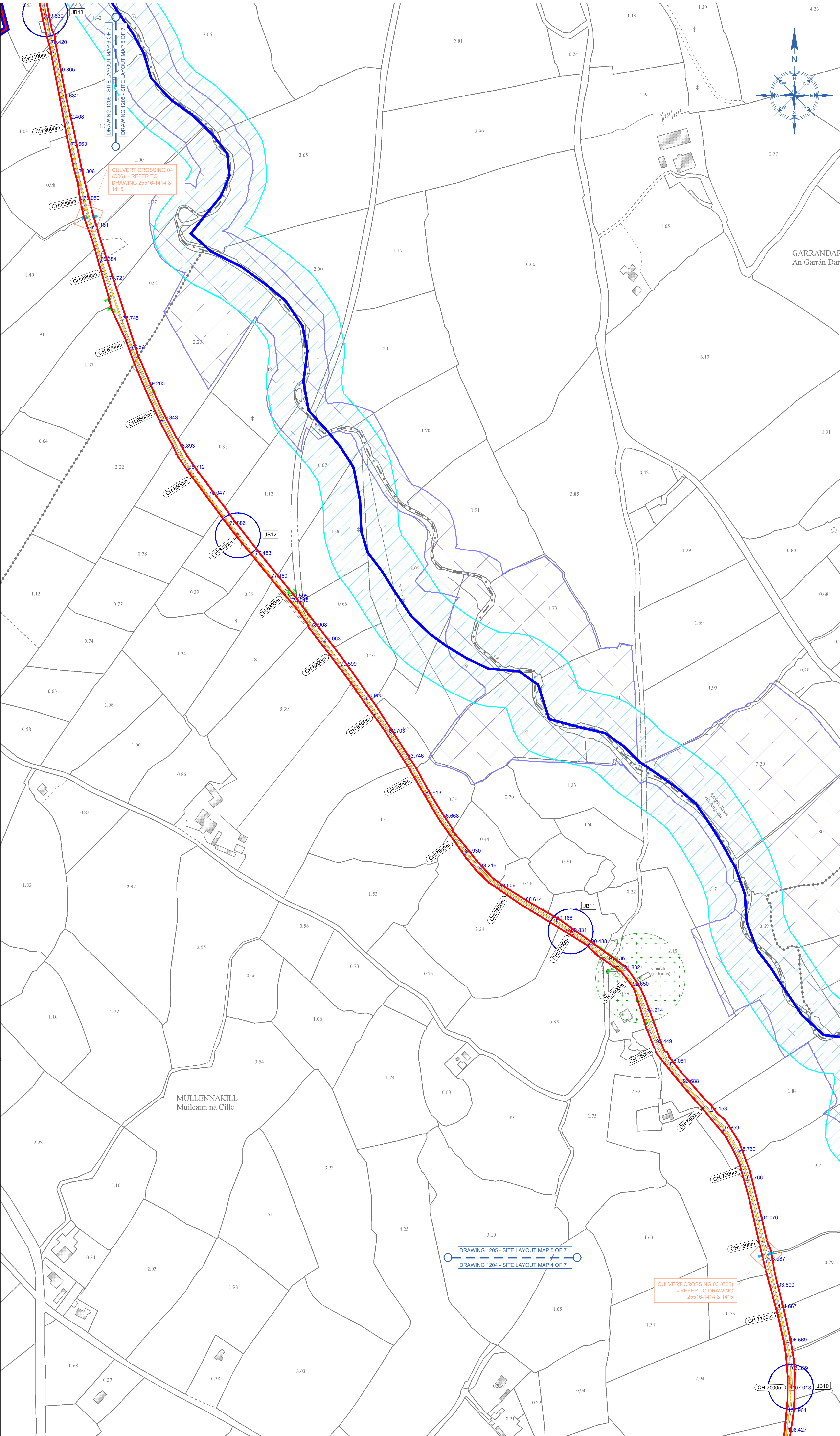
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Tel: +353(0)1 216 2956  
Email: info@mable.ie  
Website: www.mable.ie

CLIENT: MANOGATE LTD.

JOB TITLE: BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY  
DRG. TITLE: GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 4 OF 7

DRAWN:	ER	SCALE: 1:2500 @ A1	JOB NO.	DRG. NO.	REV.
DATE:	18/06/2025				
DES. BY:	ER				
CHK. BY:	BMG	25516	1204	P2	
APP. BY:	BMG				





**NOTES:**  
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**LEGEND:**  

RED LINE BOUNDARY

GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD

GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED

GRID CHAINAGE

LOCATION OF DIRECTIONAL DRILLING COMPOUND

LOCATION OF GRID CROSSING

LOCATION OF JOINT BAY (No.); SEE DRAWING 1421  
COMMS CHAMBER (No.); SEE DRAWING 1423  
AND EARTH LINK BOX (No.); SEE DRAWING 1424  
(No.) = Number

SOUTH LEINSTER WAY

EXISTING WATERCOURSE

EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE

EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA

SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC

SITE AND MONUMENTS RECORD ZONE

LEVELS

EXISTING GROUND LEVEL

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REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION

**PLANNING**

**Mable**  
Consulting Engineers

Mable Consulting Engineers, 30 Drumcondra Road Upper, Drumcondra, Dublin 9  
Tel: +353(0)1 216 2956  
Email: info@mable.ie  
Website: www.mable.ie

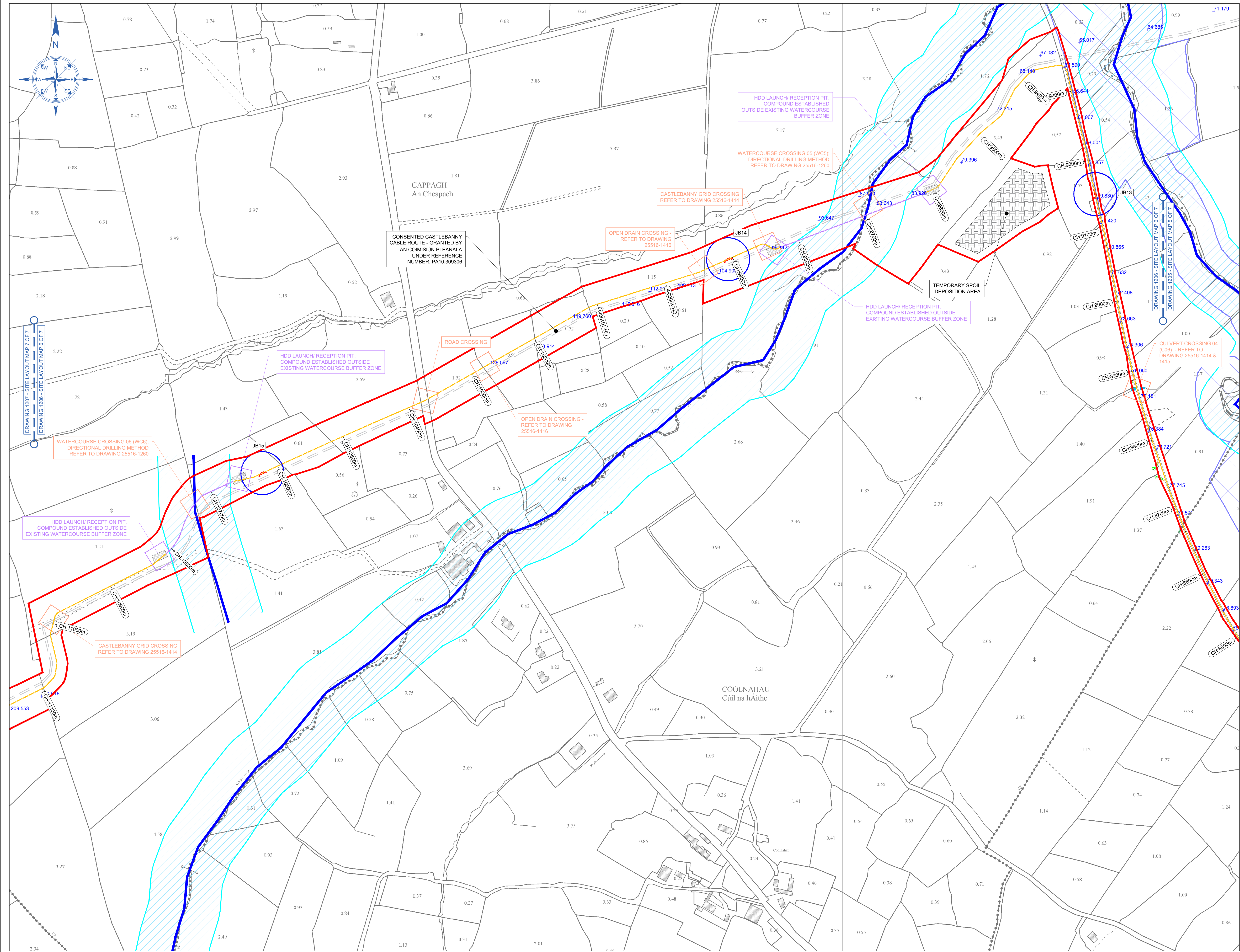
**CLIENT:** MANOGATE LTD.

**JOB TITLE:** BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY

**DRG. TITLE:** GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 5 OF 7

<b>DRAWN:</b>	ER	<b>SCALE:</b> 1:2500 @ A1		
<b>DATE:</b>	18/06/2025	<b>JOB NO.</b>	<b>DRG. NO.</b>	<b>REV.</b>
<b>DES. BY:</b>	ER	25516	1205	P2
<b>CHK. BY:</b>	BMG			
<b>APP. BY:</b>	BMG			



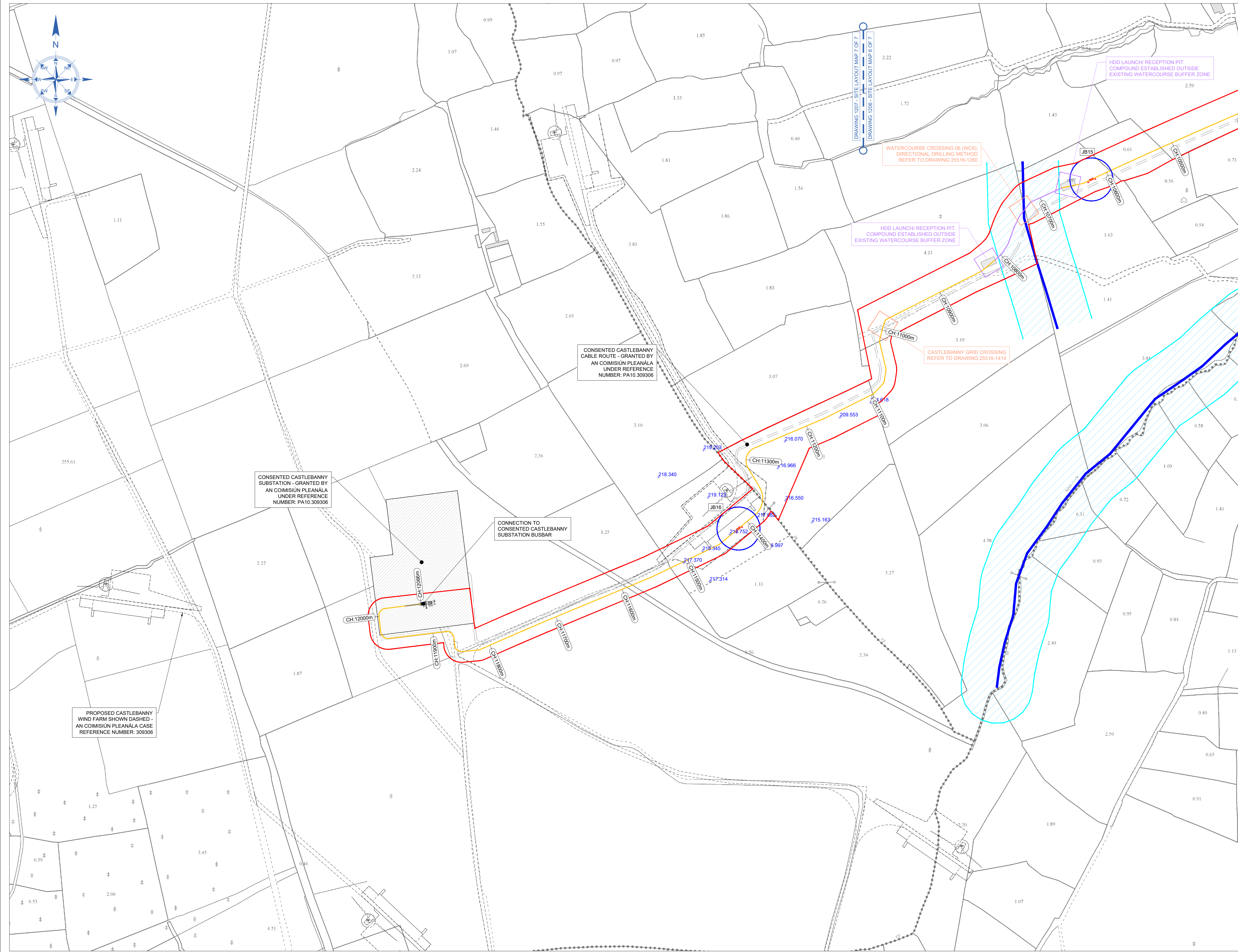


- NOTES:
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
  3. TAILTE EIREANN MAPPING
  - 3.1. MAP SERIES: 1:5000 RASTER
  - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
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- LEGEND:
- RED LINE BOUNDARY
  - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
  - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
  - GRID CHAINE
  - LOCATION OF DIRECTIONAL DRILLING COMPOUND
  - LOCATION OF GRID CROSSING
  - LOCATION OF JOINT BAY (No.): SEE DRAWING 1421  
COMMS CHAMBER (No.): SEE DRAWING 1423  
AND EARTH LINK BOX (No.): SEE DRAWING 1424  
(No.) = Number
  - SOUTH LEINSTER WAY
  - EXISTING WATERCOURSE
  - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
  - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
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  - SITE AND MONUMENTS RECORD ZONE
  - LEVELS
  - EXISTING GROUND LEVEL

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REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION	PLANNING									
					CLIENT: MANOGATE LTD.									
					DRAWN: ER		SCALE: 1:2500 @ A1							
					DATE: 20/06/2025		JOB NO.		DRG. NO.		REV.			
					DES. BY: ER									
					CHK. BY: BMG		25516		1206		P2			
					APP. BY: BMG									





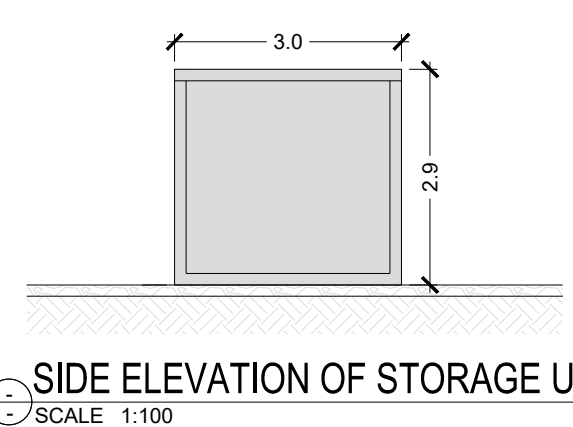
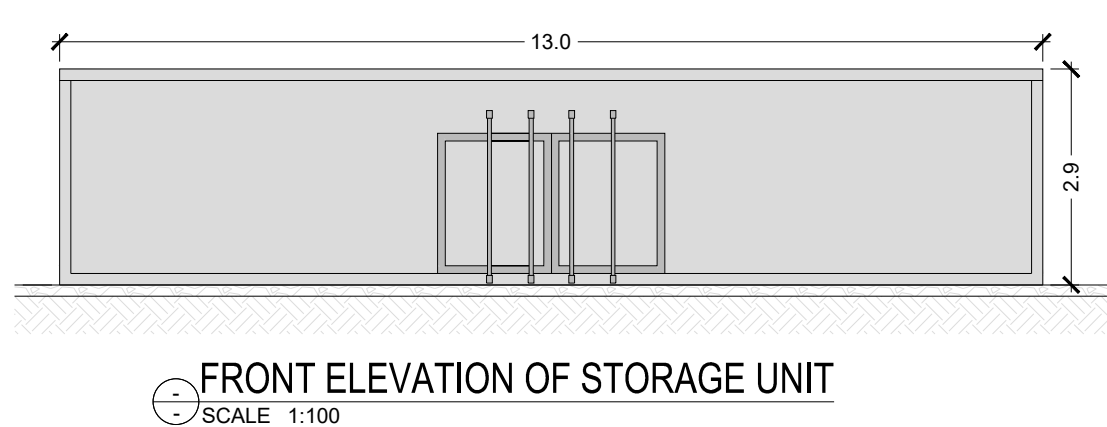
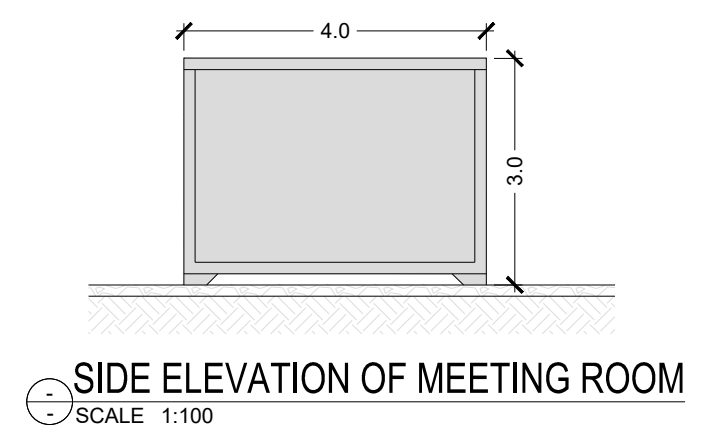
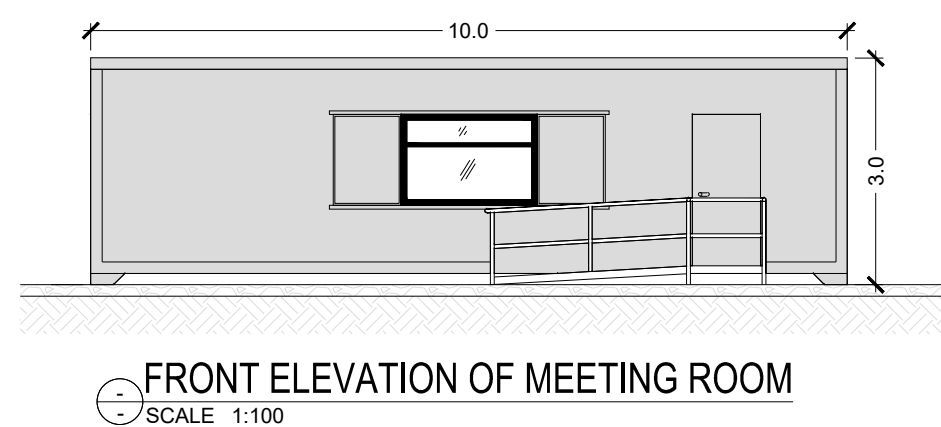
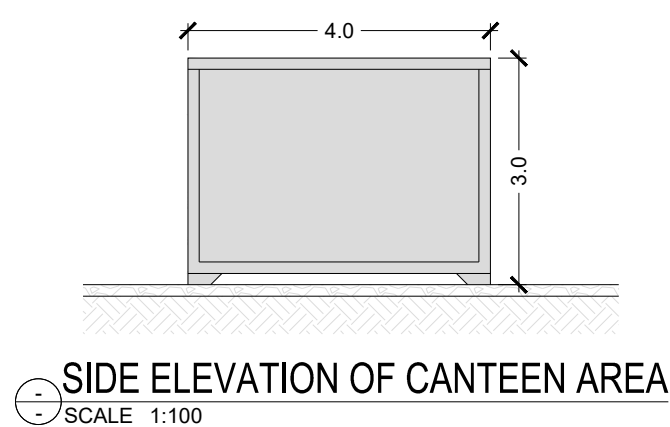
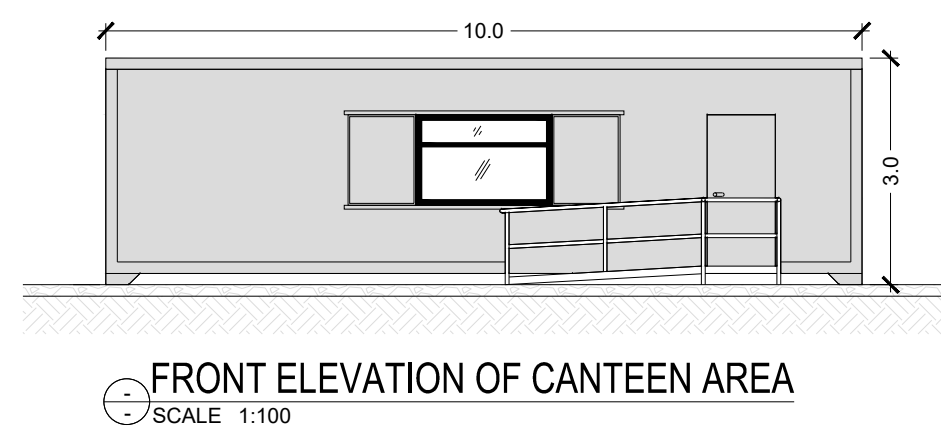
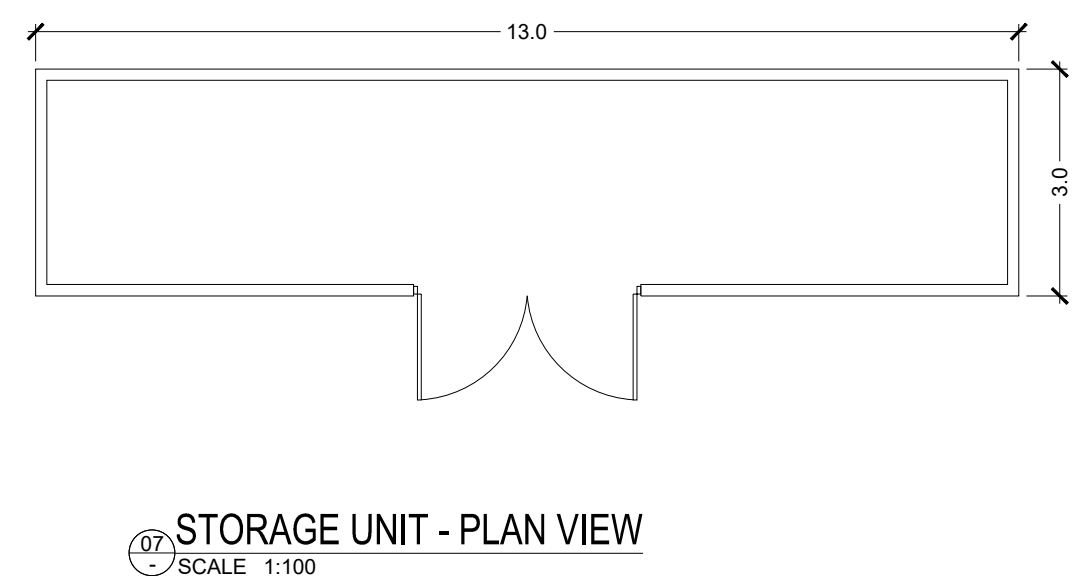
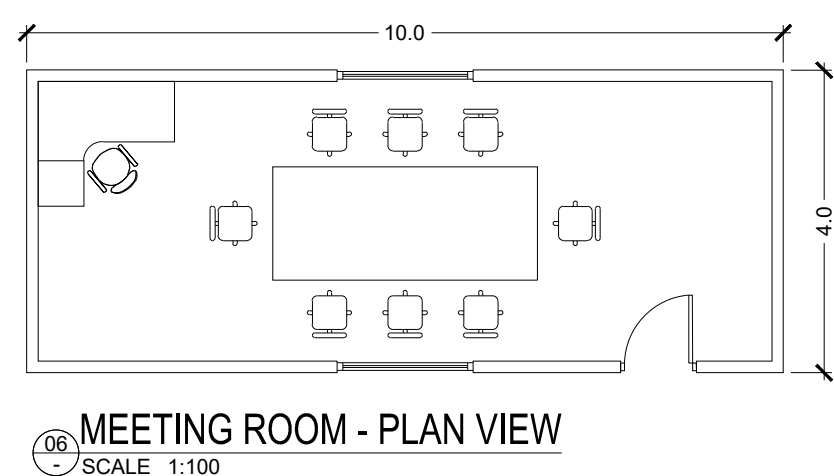
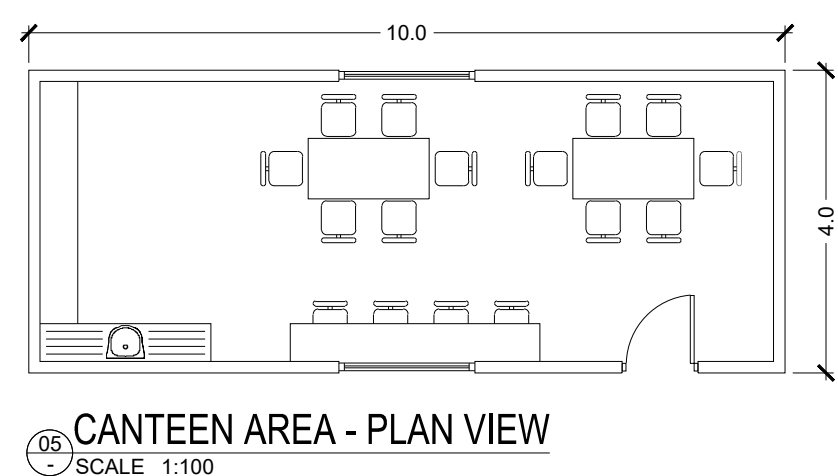
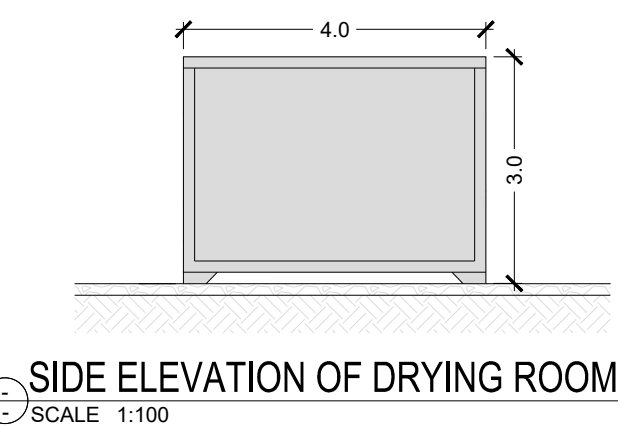
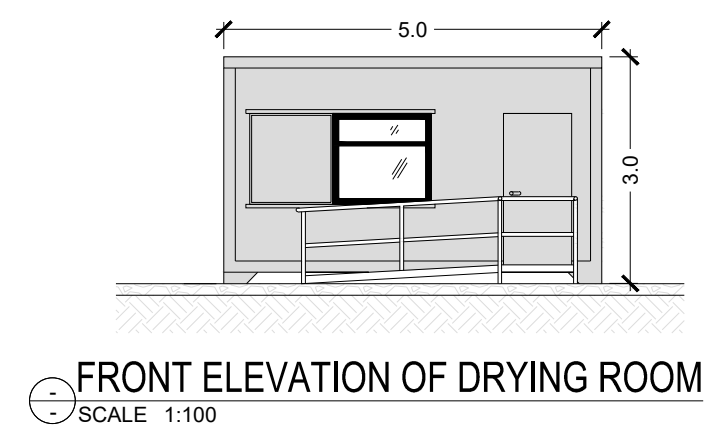
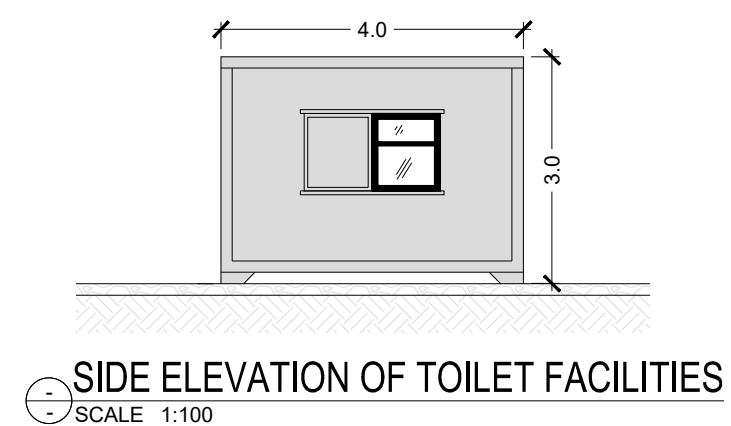
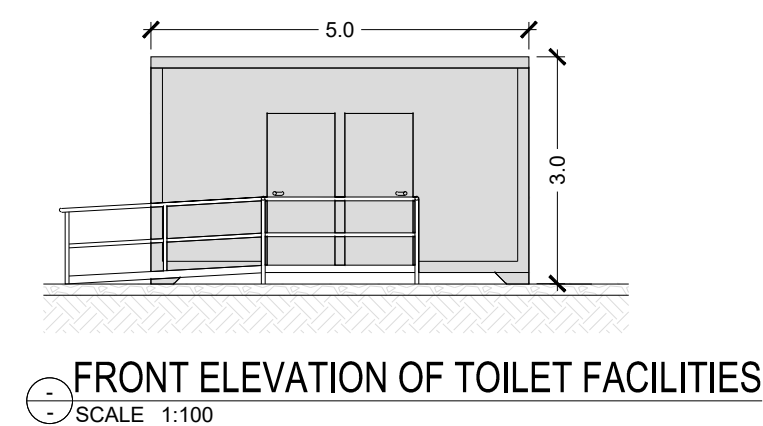
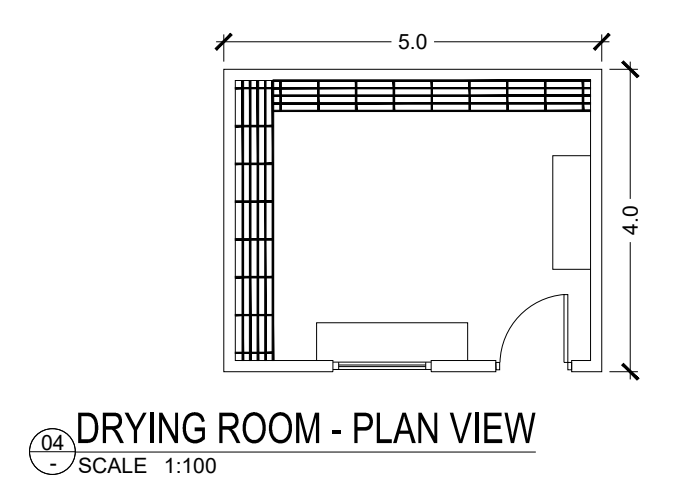
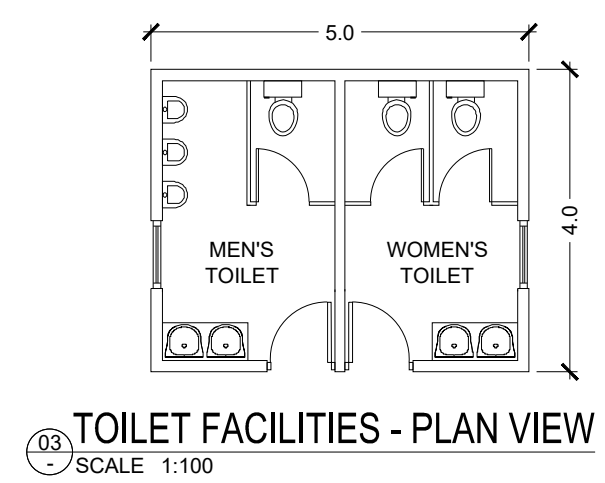
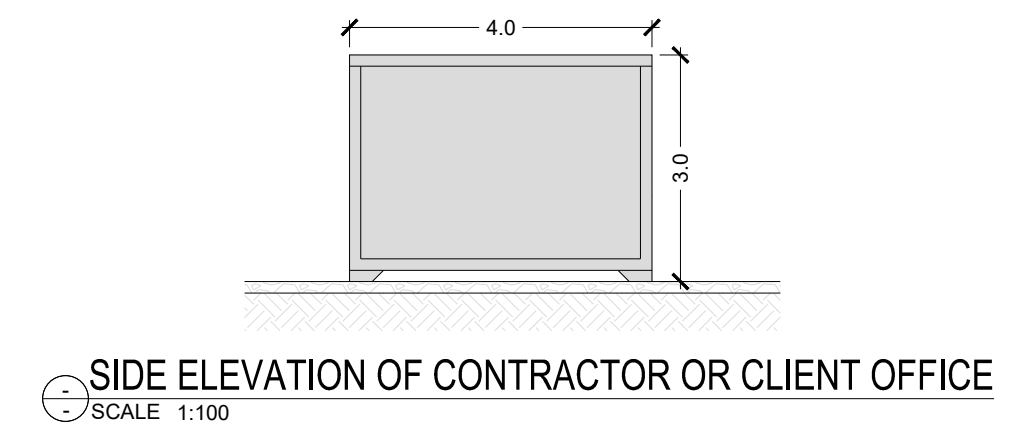
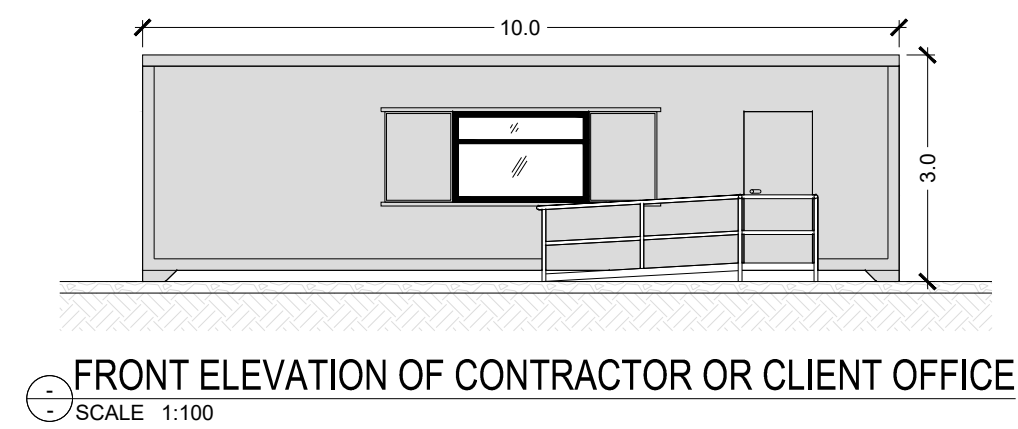
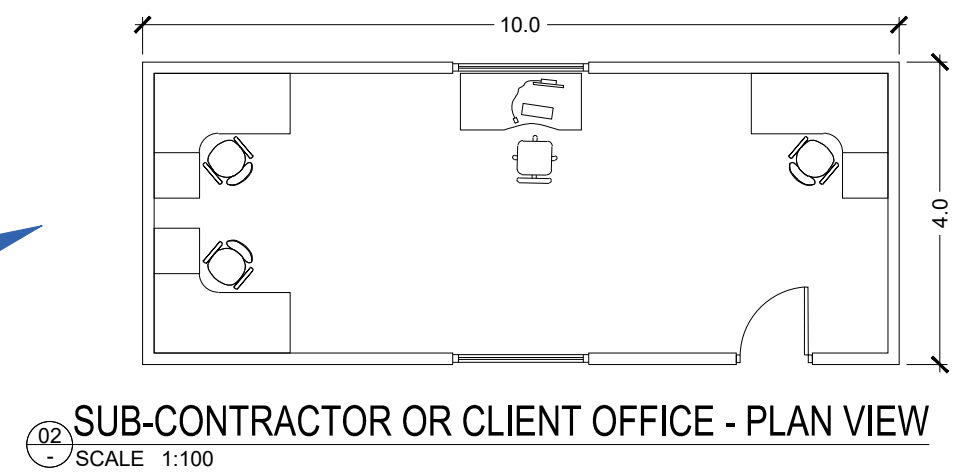
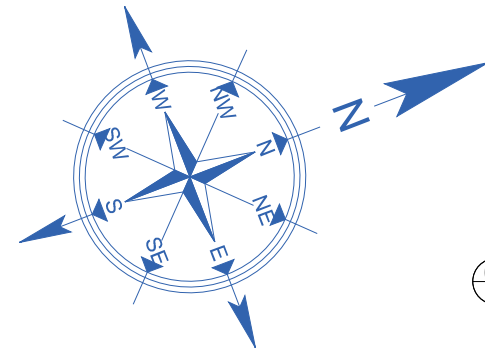
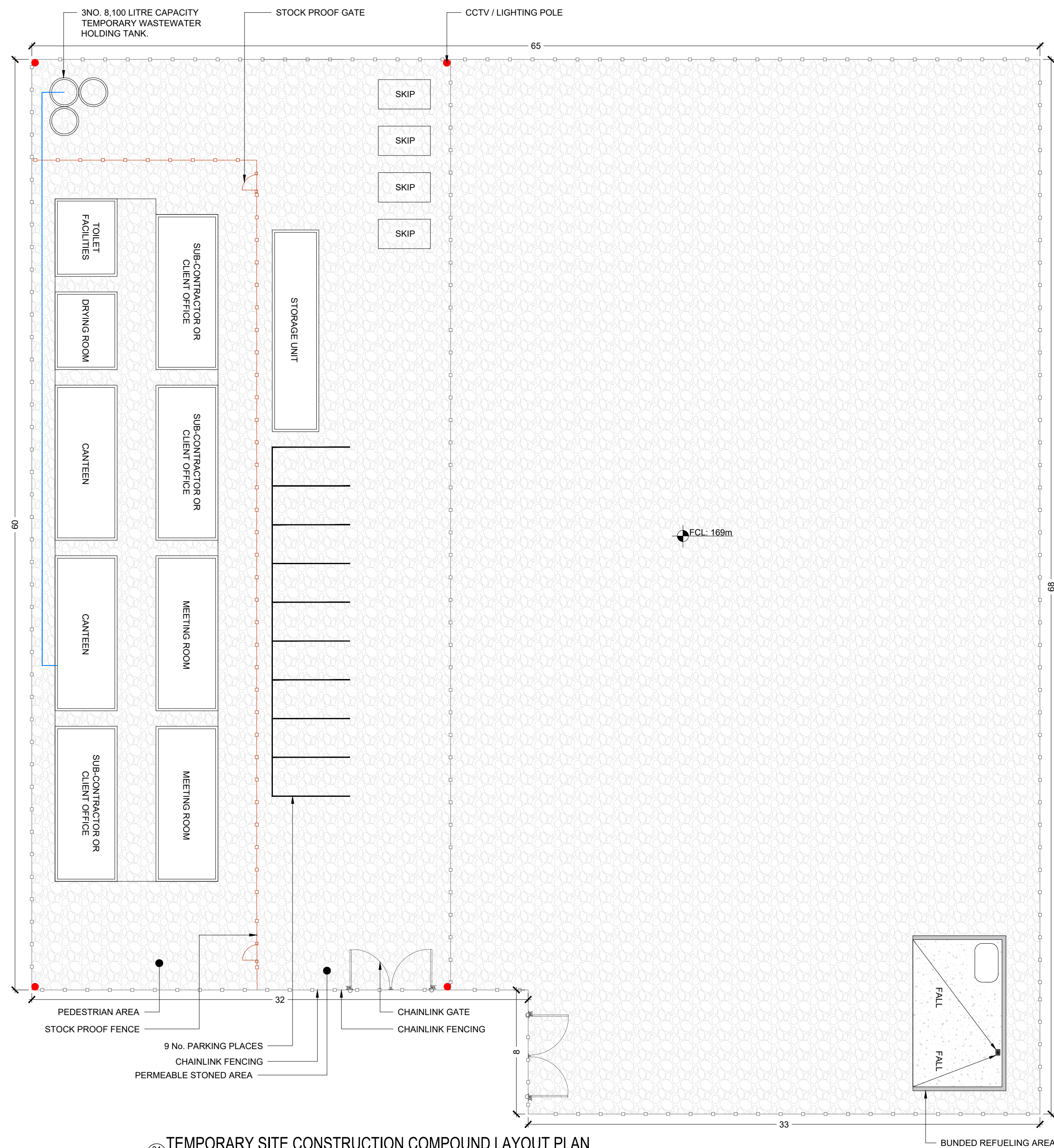
- NOTES:
1. ALL DIMENSIONS ARE IN METRES AND COORDINATES TO ITM GRID UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
  3. TAILTE EIREANN MAPPING
    - 3.1. MAP SERIES: 1:5000 RASTER
    - 3.2. MAP SHEETS: 5132, 5133, 5134, 5193, 5194, 5195, 5255, 5256, 5257, 5317, 5318, 5319, 5377, 5378, 5379
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- LEGEND:
- RED LINE BOUNDARY
  - GRID CONNECTION OPTION ONE - SECTION OF GRID CONSTRUCTED IN WIND FARM TRACK AND PUBLIC ROAD
  - GRID CONNECTION OPTION ONE - SECTION OF GRID TO BE DIRECTIONAL DRILLED
  - GRID CHAINAGE (CH:000m)
  - LOCATION OF DIRECTIONAL DRILLING COMPOUND
  - LOCATION OF GRID CROSSING
  - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421 COMMS CHAMBER (No.); SEE DRAWING 1423 AND EARTH LINK BOX (No.); SEE DRAWING 1424 (No.) = Number
  - SOUTH LEINSTER WAY
  - EXISTING WATERCOURSE
  - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
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  - SITE AND MONUMENTS RECORD ZONE
  - LEVELS
  - EXISTING GROUND LEVEL


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					<div>Mable Consulting Engineers, 30 Drumcondra Road Upper, Drumcondra, Dublin 9 Tel: +353(0)1 216 2966 Email: info@mable.ie Website: www.mable.ie</div>					MANOGATE LTD.	DATE:	20/06/2025	JOB NO.	DRG. NO.	REV.	
										DES. BY:	ER					
										CHK. BY:	BMG					
										APP. BY:	BMG					
					JOB TITLE: BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY					DRG. TITLE: GRID CONNECTION OPTION ONE - SITE LAYOUT MAP 7 OF 7						



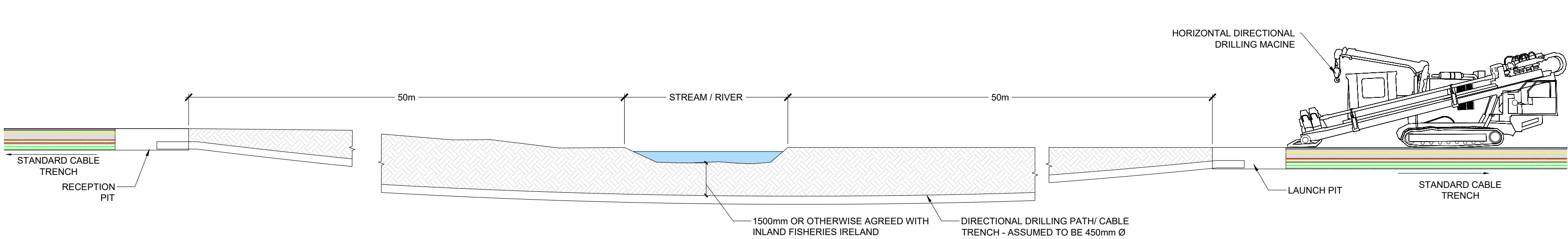
- NOTES:**
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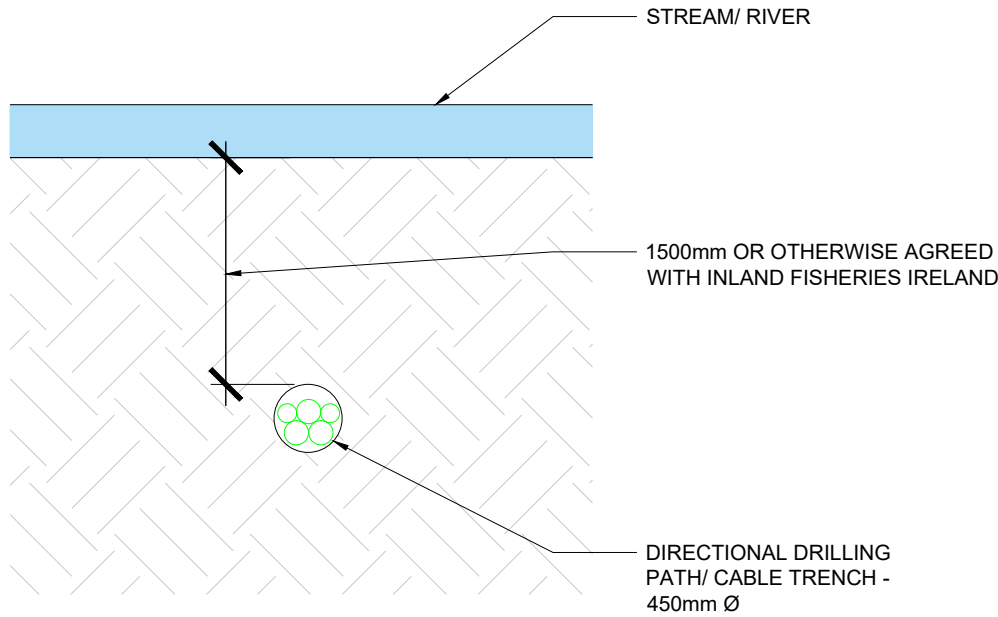
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		<b>JOB TITLE:</b> BALLYFASY WF 110KV GRID CONNECTION, CO KILKENNY		<b>DATE:</b> 19/11/25	<b>JOB NO.</b>	<b>DRG. NO.</b>	<b>REV.</b>
		<b>DRG. TITLE:</b> TEMPORARY SITE CONSTRUCTION COMPOUND LAYOUT AND BUILDING DETAILS		<b>DES. BY:</b> ER			
				<b>CHK. BY:</b> ER	25516	1254	P1
			<b>APP. BY:</b> BMG				



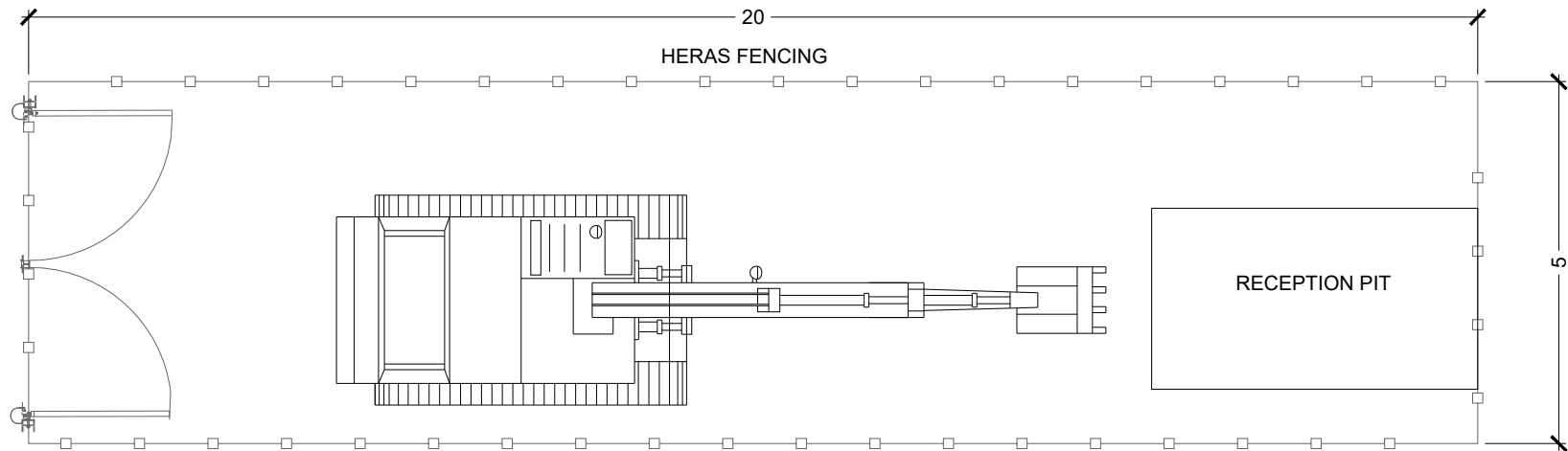


**SECTION OF DIRECTIONAL DRILLING UNDER WATERCOURSE**  
SCALE 1:200

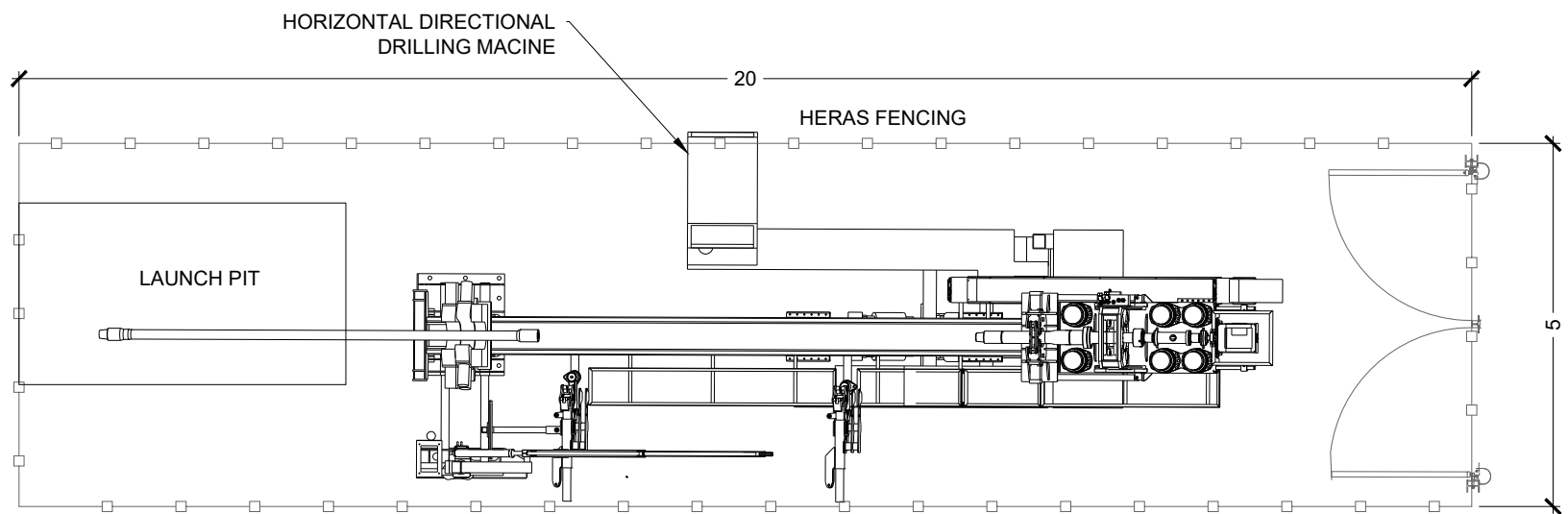
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**DIRECTIONAL DRILLING ROAD CROSSING DETAIL - CROSS SECTION**  
SCALE 1:50



**DIRECTIONAL DRILLING RECEPTION COMPOUND**  
SCALE 1:100



**DIRECTIONAL DRILLING LAUNCH COMPOUND**  
SCALE 1:100

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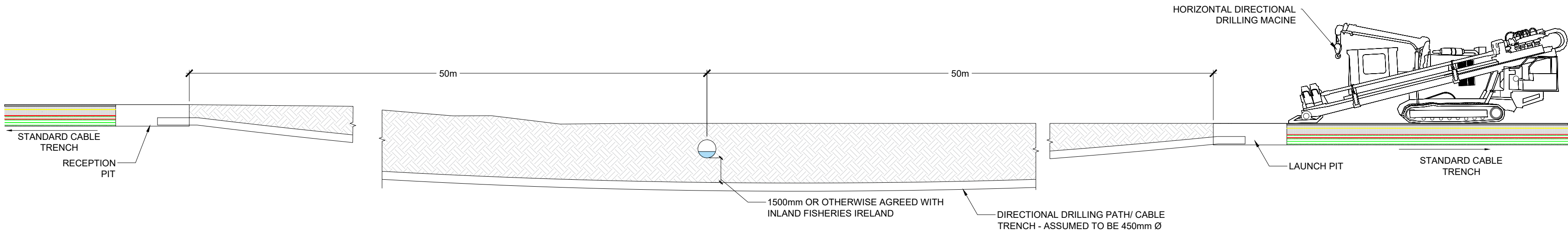
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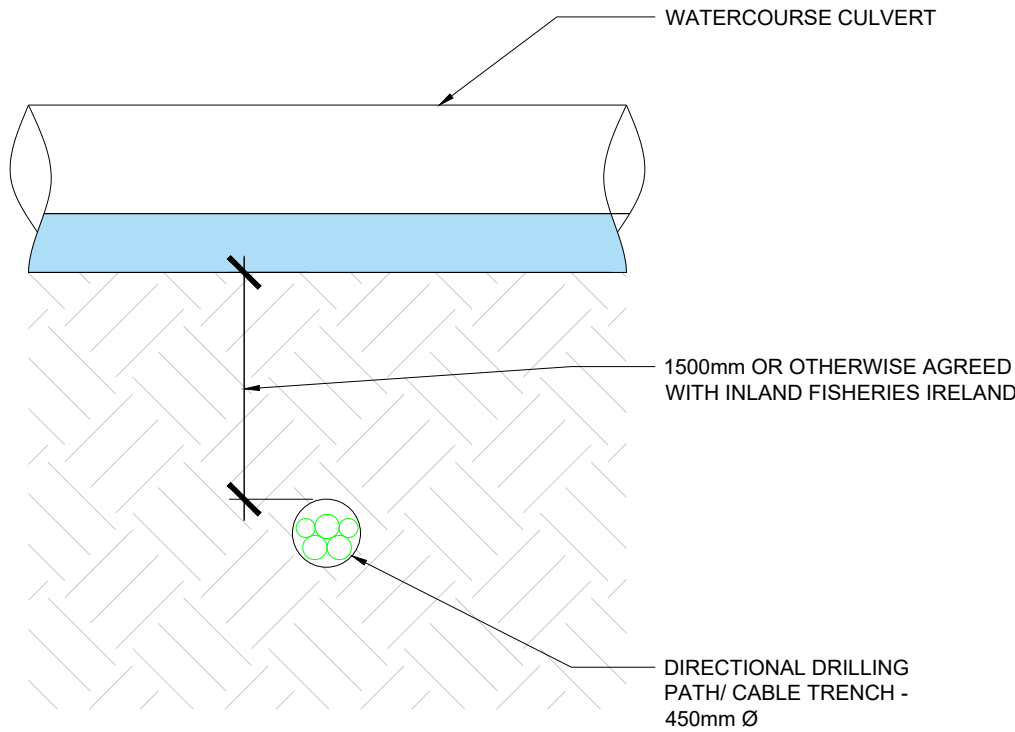
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	26/06/25	JOB NO.	DRG. NO.	REV.
DRG. TITLE:	HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE	DES. BY:	MM	25516	1260	P1
		CHK. BY:	ER			
		APP. BY:	BMG			



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**P1** SECTION OF DIRECTIONAL DRILLING UNDER WATERCOURSE CULVERT  
SCALE 1:200



**D2** DIRECTIONAL DRILLING ROAD CROSSING DETAIL - CROSS SECTION  
SCALE 1:50

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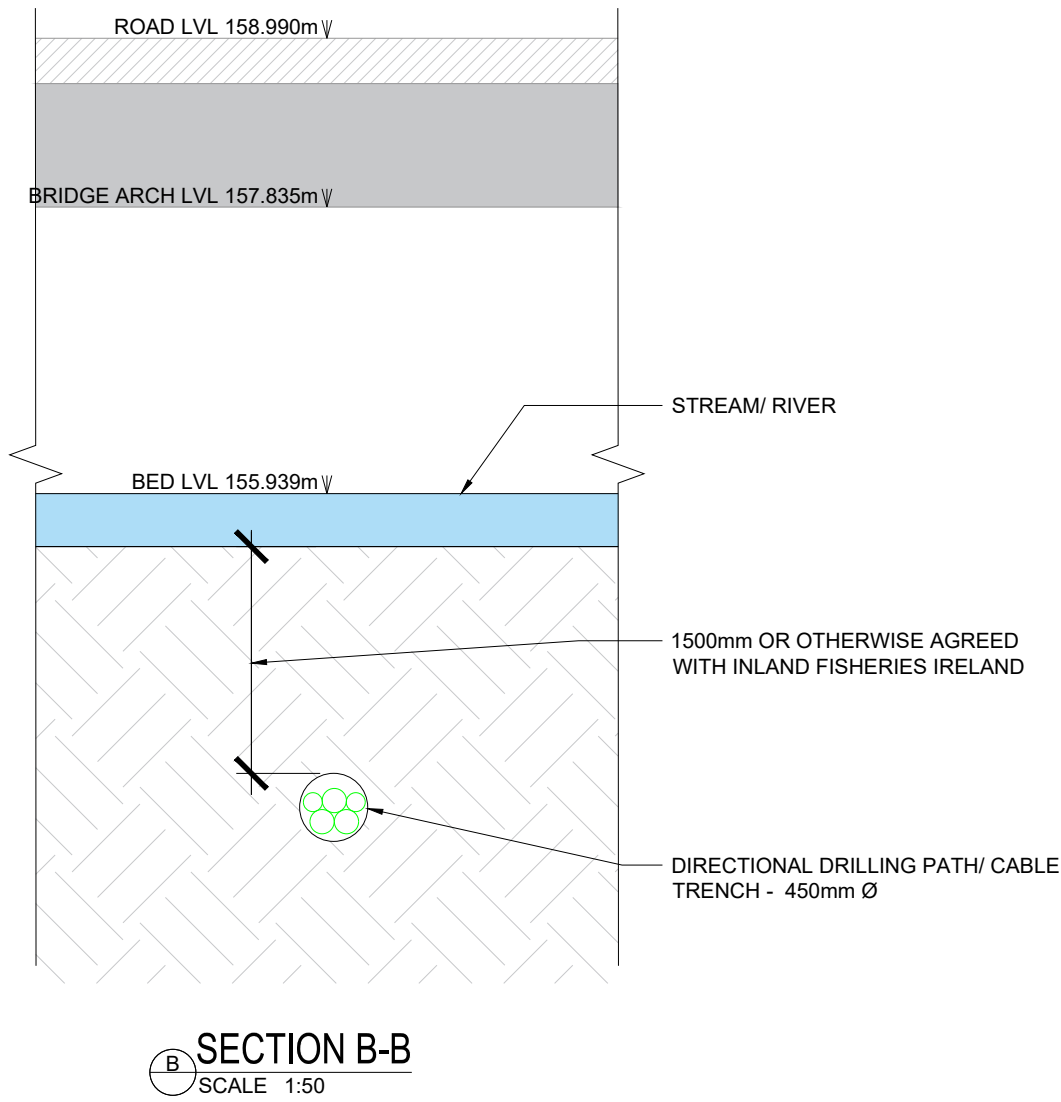
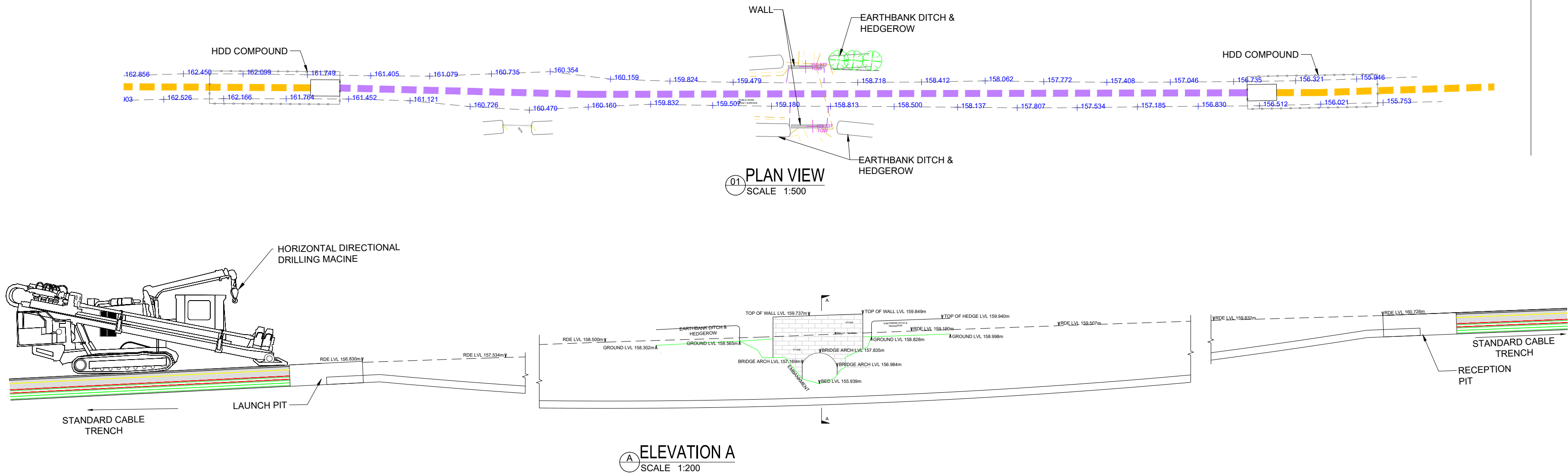
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		DATE:	26/06/25	JOB NO.	DRG. NO.	REV.		
		JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY				DES. BY:	MM
		DRG. TITLE:	HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE CULVERT				CHK. BY:	ER
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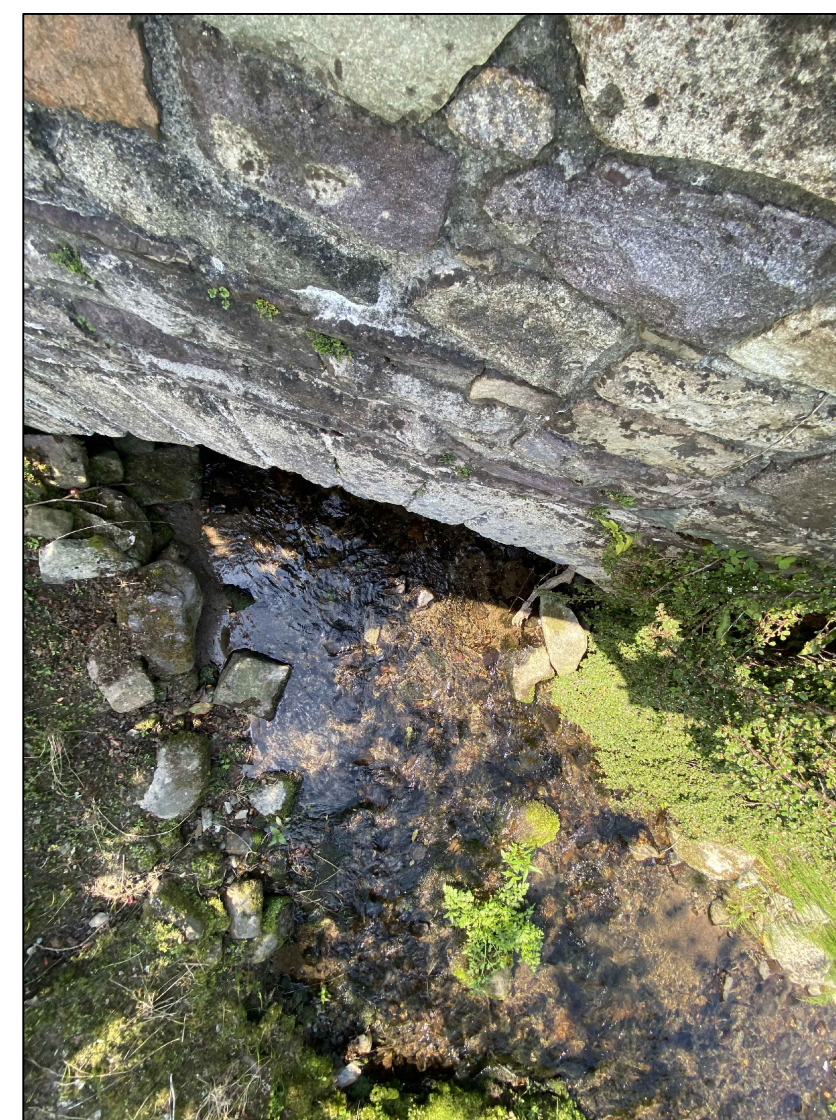
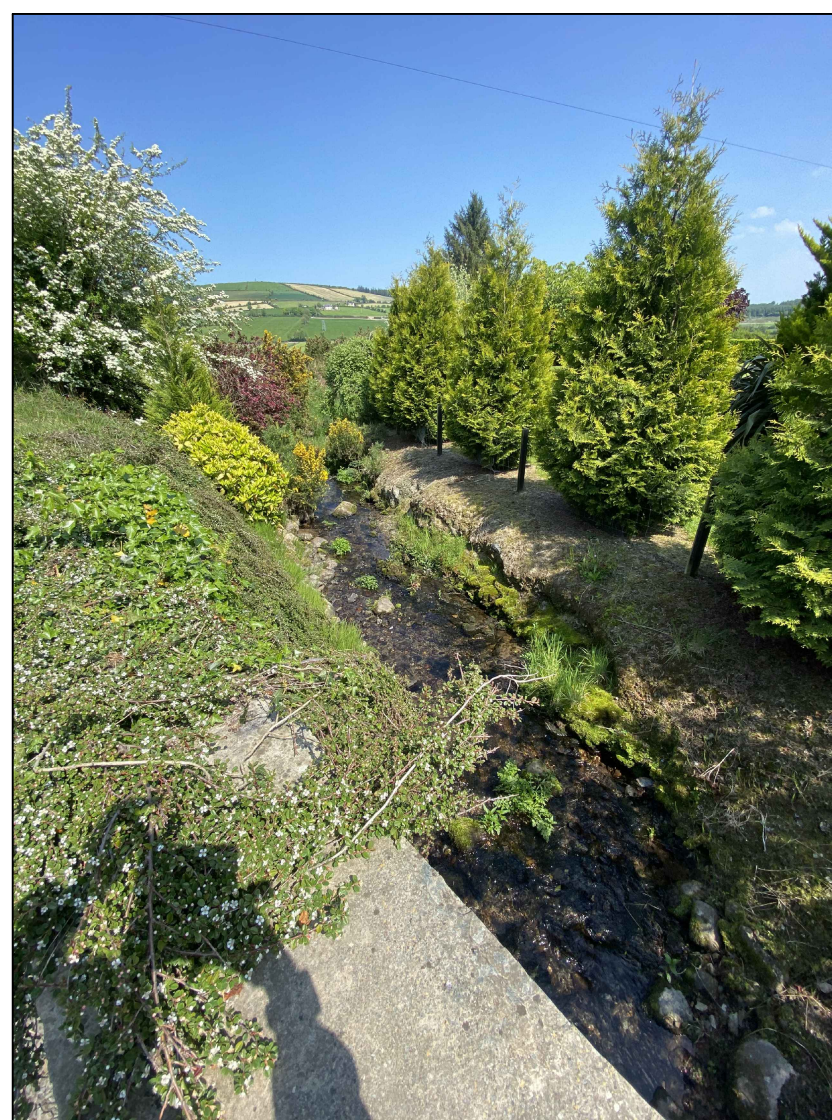
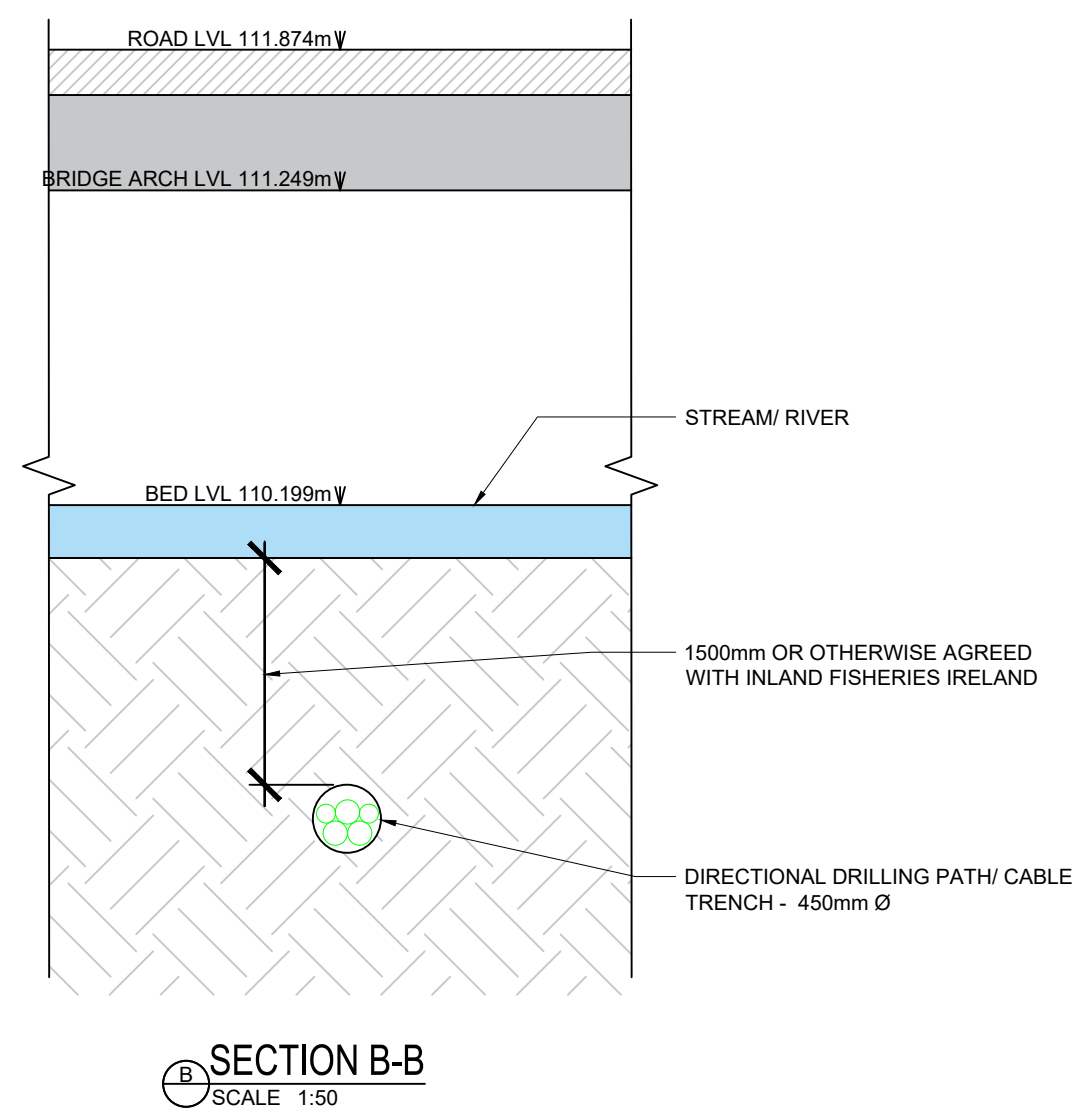
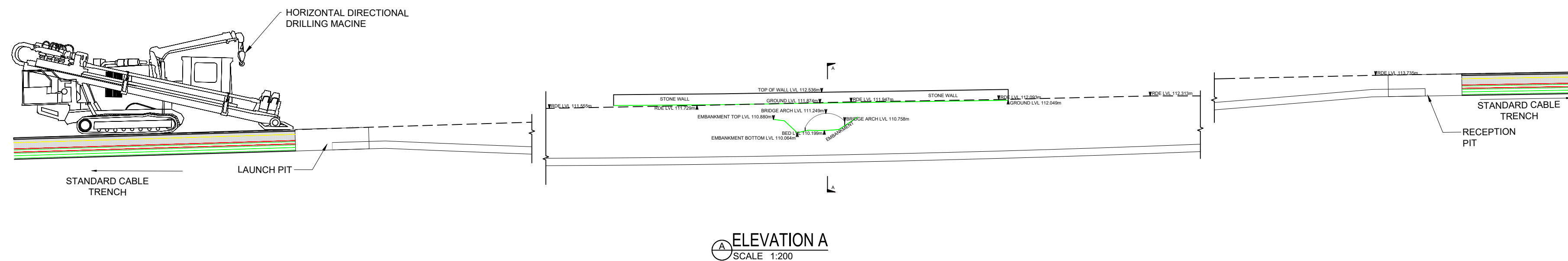
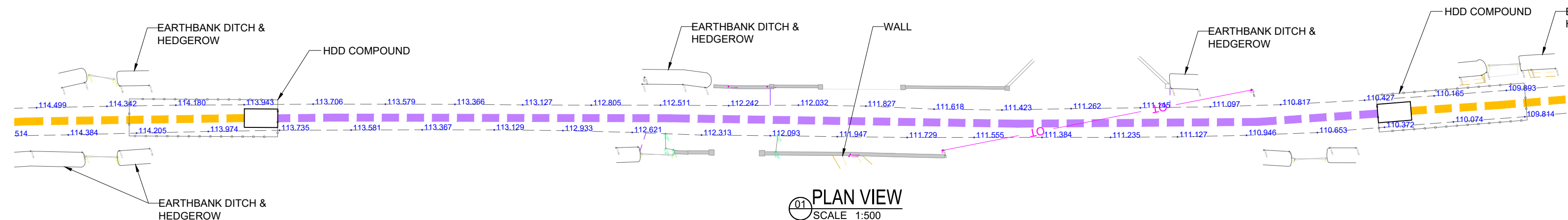
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		JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY		DATE: 30/06/25	JOB NO.	DRG. NO.	REV.
		DRG. TITLE: WC2: GLENPIPE ROAD BRIDGE 1.0 CROSSING		DES. BY: MM	25516	1262	P2
				CHK. BY: ER			
				APP. BY: BMG			





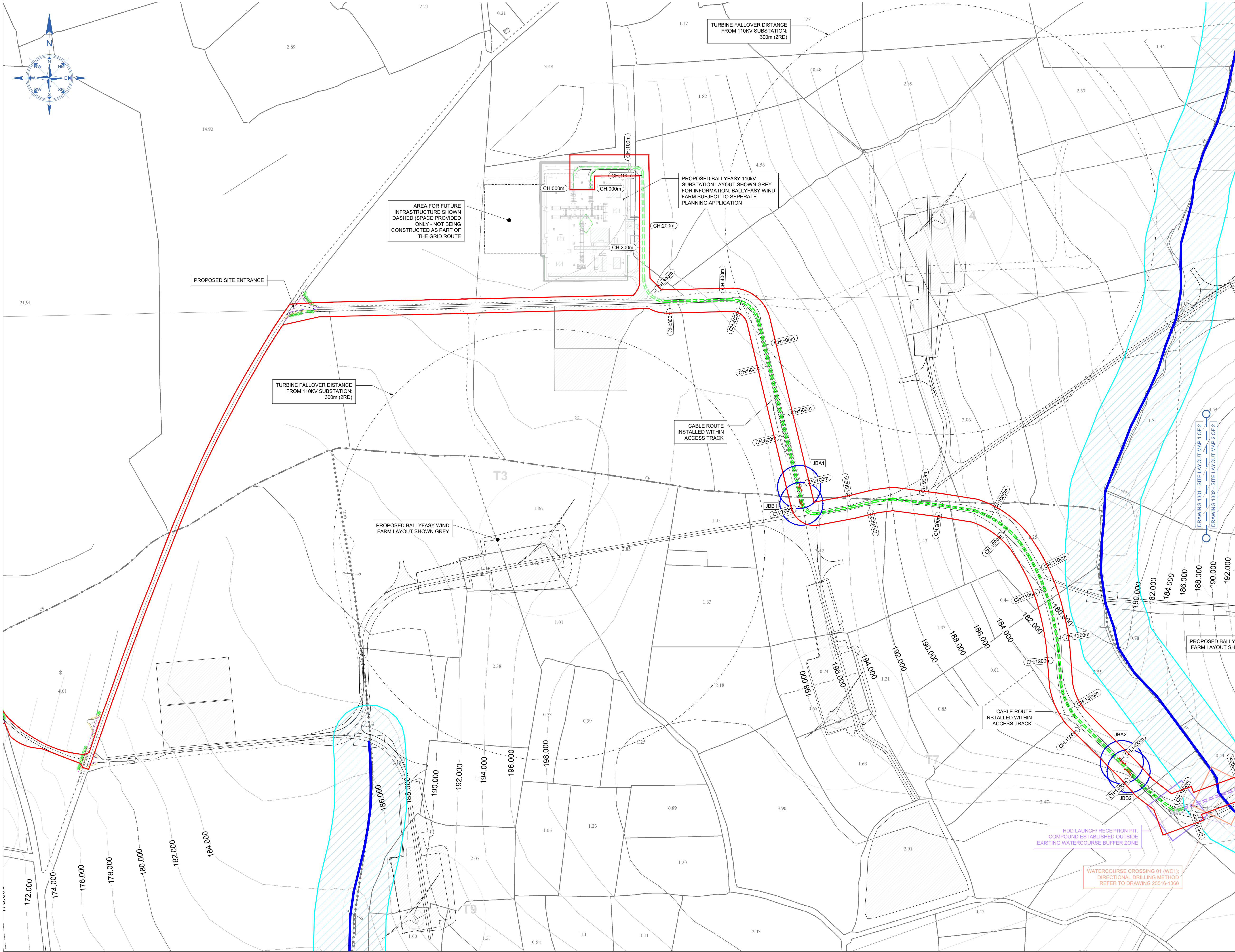
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							DRG. TITLE:	WC4: GLENPIPE ROAD BRIDGE 2.0 CROSSING	DES. BY:	MM	25516	1263	P2
							CHK. BY:	ER	APP. BY:	BMG			









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  2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
  3. TAILTE EIREANN MAPPING
  - 3.1. MAP SERIES: 1:5000 RASTER
  - 3.2. MAP SHEETS: 5379
  4. THE ROUTE OF THE PROPOSED CABLE ROUTE MAY VARY SUBJECT TO SITE CONDITIONS AND ENCOUNTERING EXISTING SERVICES.

- LEGEND:
- PLANNING APPLICATION BOUNDARY
  - GRID CONNECTION OPTION TWO (110kV CABLE)
  - GRID CONNECTION OPTION TWO - SECTION OF GRID TO BE DIRECTIONAL DRILLED
  - GRID CHAINAGE
  - LOCATION OF DIRECTIONAL DRILLING COMPOUND
  - LOCATION OF CROSSING - CROSSING TYPE SPECIFIED ON DRAWING
  - JB(No.)
  - LOCATION OF JOINT BAY (No.); SEE DRAWING 1421
  - COMMS CHAMBER (No.); SEE DRAWING 1423
  - AND EARTH LINK BOX (No.); SEE DRAWING 1424
  - (No.) = Number
  - ACCESS TRACK
  - EXISTING GREAT ISLAND - KILKENNY 110kV OVERHEAD LINE
  - EXISTING WATERCOURSE
  - EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
  - EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
  - SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
  - SITE AND MONUMENTS RECORD ZONE

REV.	DWG BY:	APP/CHK:	DATE:	DESCRIPTION:

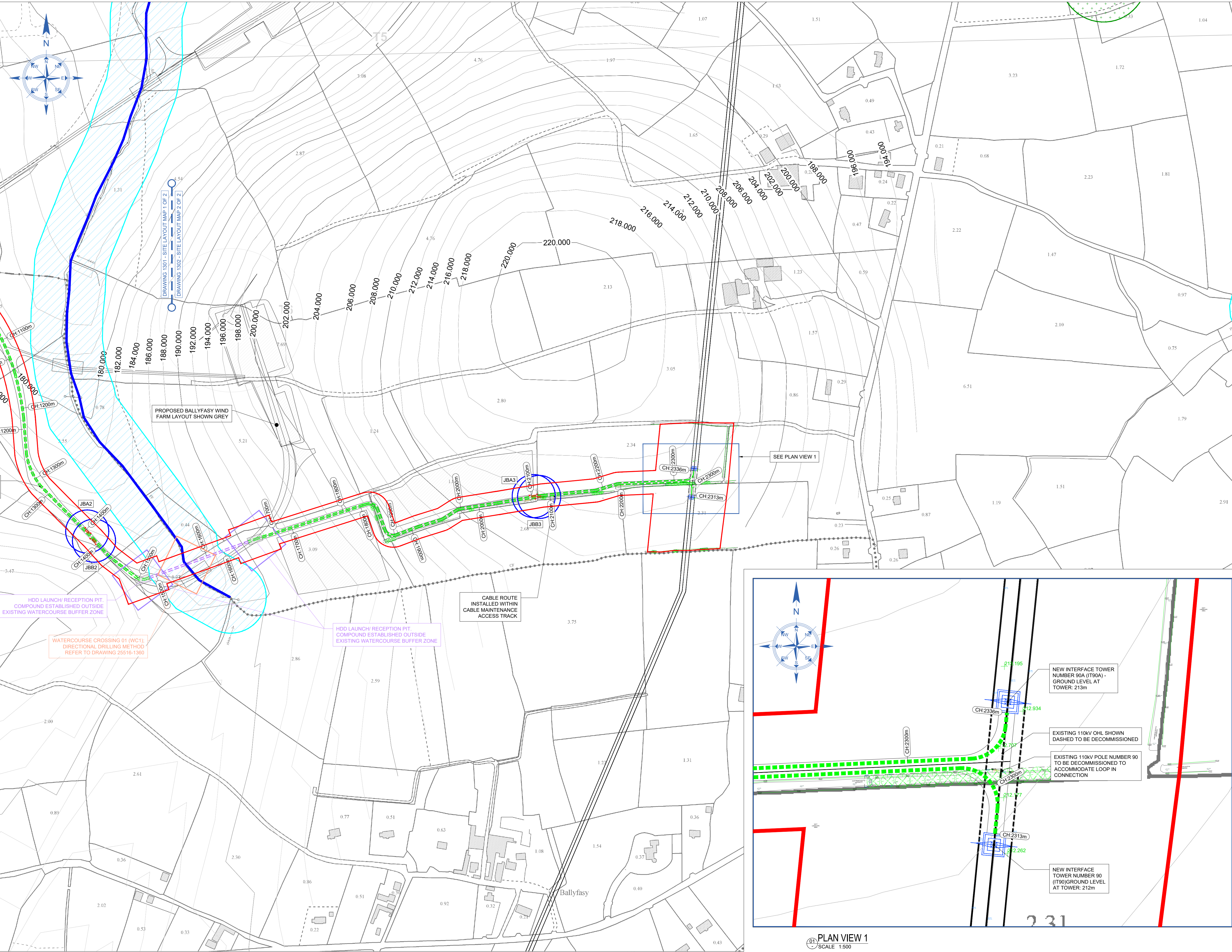
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DRG. TITLE:		CHK. BY:	ER	DES. BY:	ER	DRG. NO.	1301
GRID CONNECTION OPTION TWO - SITE LAYOUT MAP 2 OF 2		APP. BY:	BMG	REV.	P2		

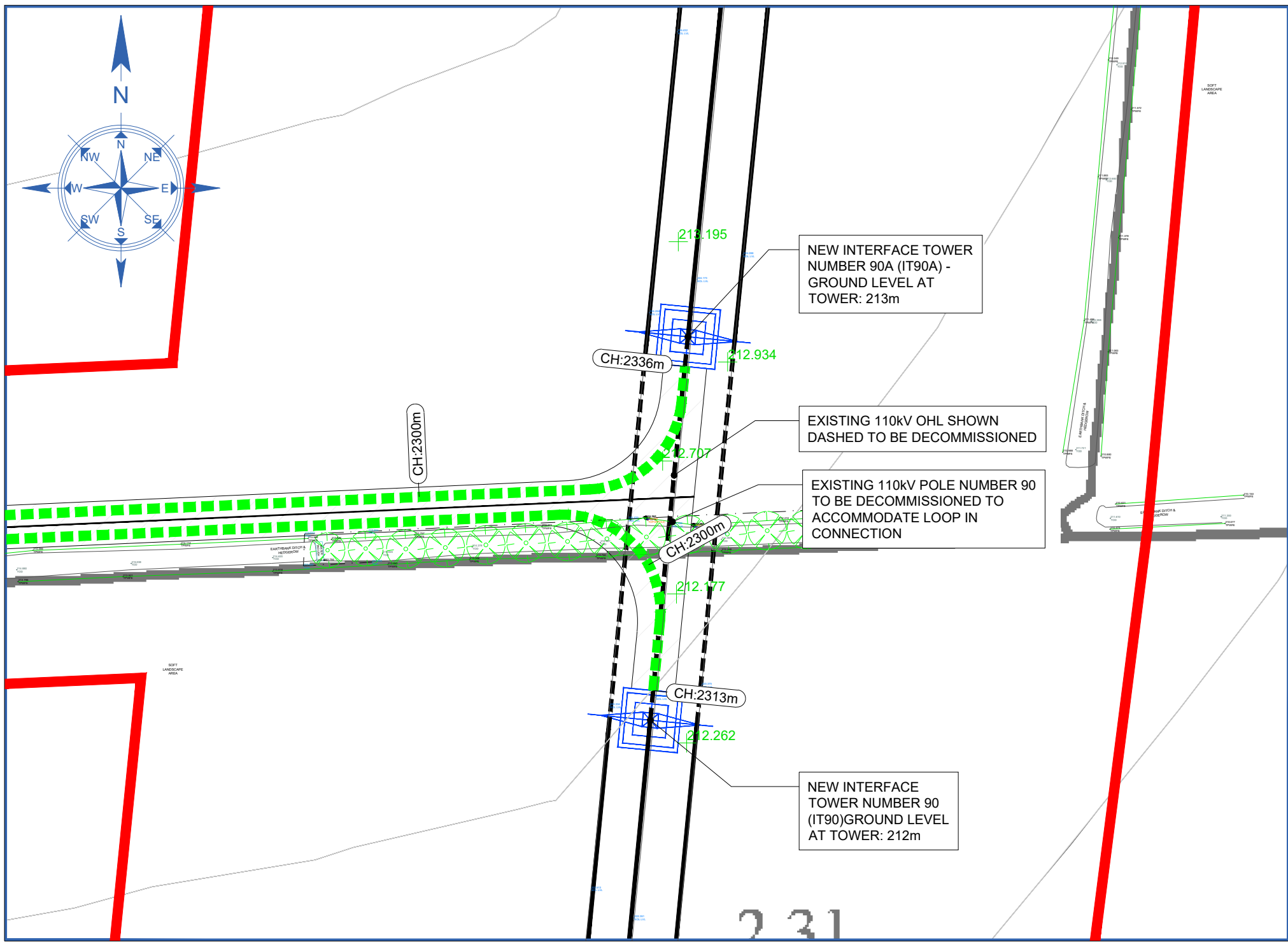




- NOTES:
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  2. ALL LEVELS ARE TO (OSI) ORDINANCE MALIN HEAD VERTICAL DATUM IN METRES.
  3. TAILTE EIREANN MAPPING  
3.1. MAP SERIES: 1:5000 RASTER  
3.2. MAP SHEETS: 5379
  4. THE ROUTE OF THE PROPOSED CABLE ROUTE MAY VARY SUBJECT TO SITE CONDITIONS AND ENCOUNTERING EXISTING SERVICES.

LEGEND:

- PLANNING APPLICATION BOUNDARY
- GRID CONNECTION OPTION TWO (110kV CABLE)
- GRID CONNECTION OPTION TWO - SECTION OF GRID TO BE DIRECTIONAL DRILLED
- GRID CHAINAGE
- LOCATION OF DIRECTIONAL DRILLING COMPOUND
- LOCATION OF CROSSING - CROSSING TYPE SPECIFIED ON DRAWING
- JB(No.) LOCATION OF JOINT BAY (No.); SEE DRAWING 1421 COMMS CHAMBER (No.); SEE DRAWING 1423 AND EARTH LINK BOX (No.); SEE DRAWING 1424
- (No.) = Number
- ACCESS TRACK
- EXISTING GREAT ISLAND - KILKENNY 110kV OVERHEAD LINE
- EXISTING WATERCOURSE
- EPA REGISTERED STREAM/ SIGNIFICANT WATERCOURSE
- EXISTING WATERCOURSE 50m BUFFER ZONE - NO SPOIL TO BE STORED WITHIN BUFFER ZONE AREA
- SPECIAL AREA OF CONSERVATION (SAC) - NO SPOIL TO BE STORED WITHIN 50m OF SAC
- SITE AND MONUMENTS RECORD ZONE



PLAN VIEW 1  
SCALE: 1:500

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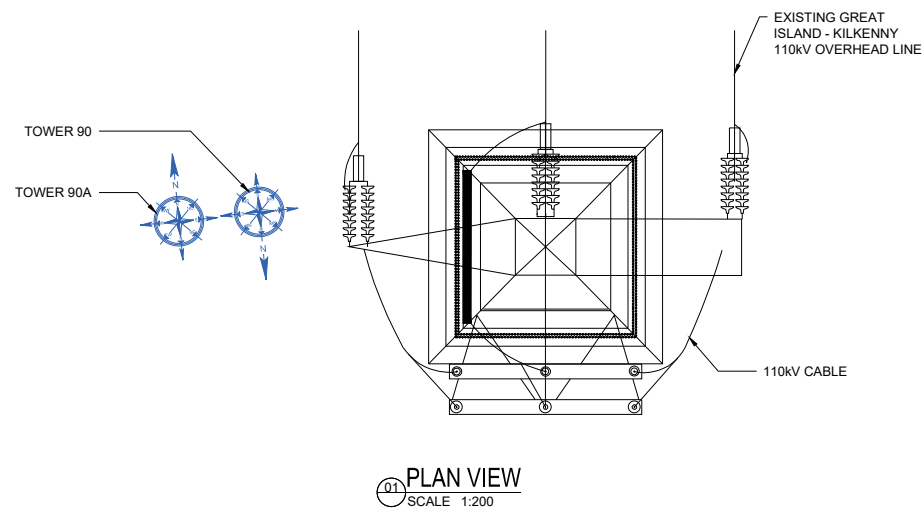
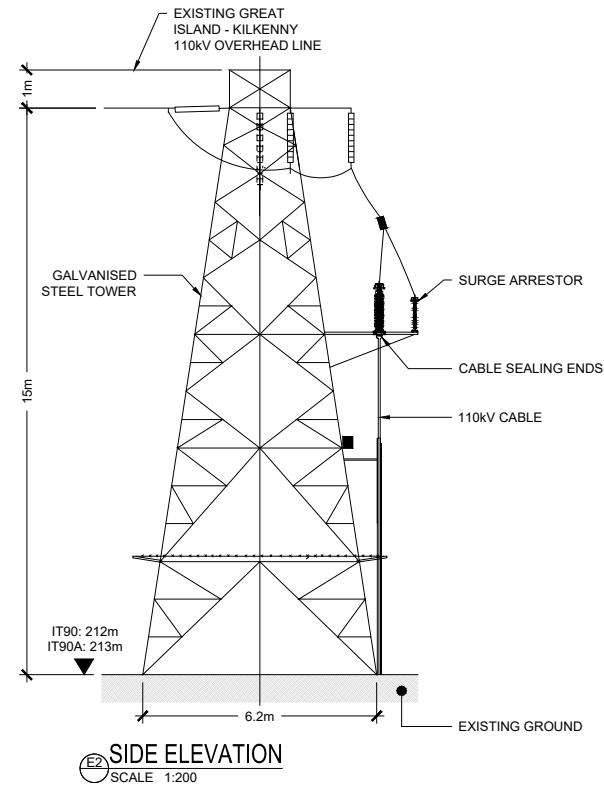
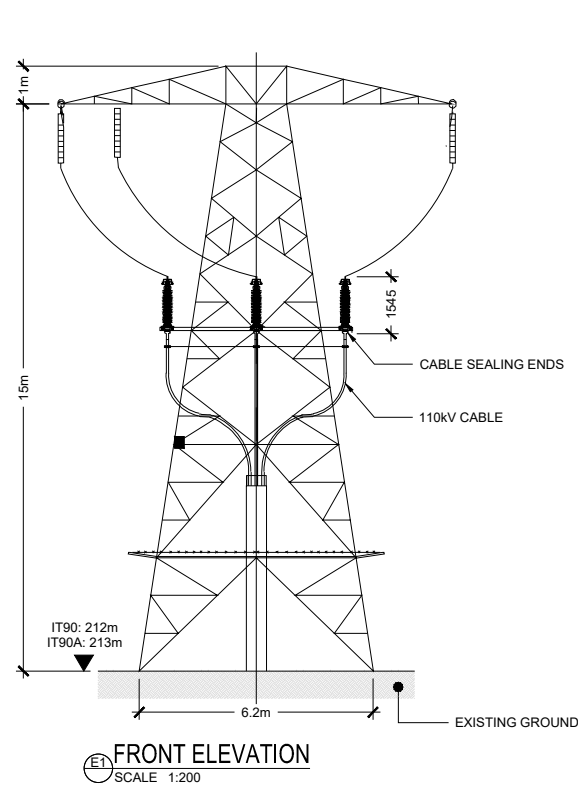
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		CHK. BY:	ER	DES. BY:	ER	DRG. NO.	1302
		DRG. TITLE:	GRID CONNECTION OPTION TWO - SITE LAYOUT MAP 2 OF 2	APP. BY:	BMG	REV.	P2





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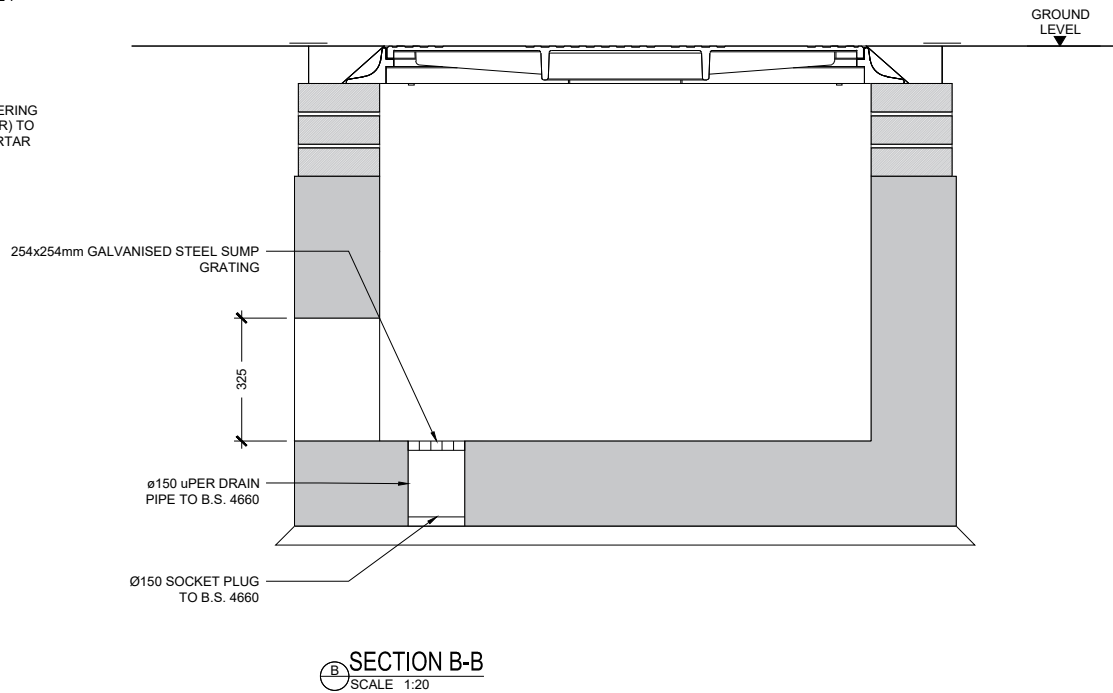
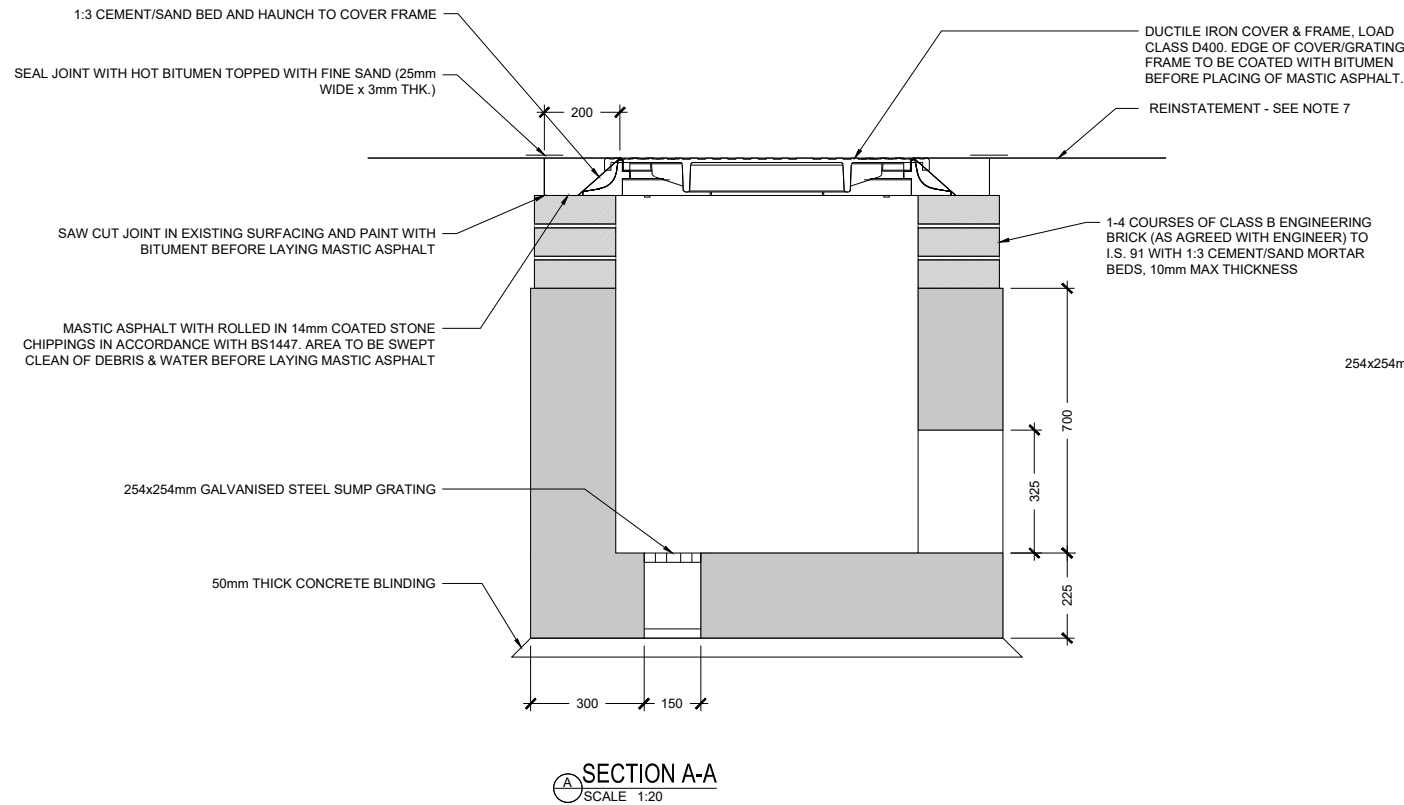
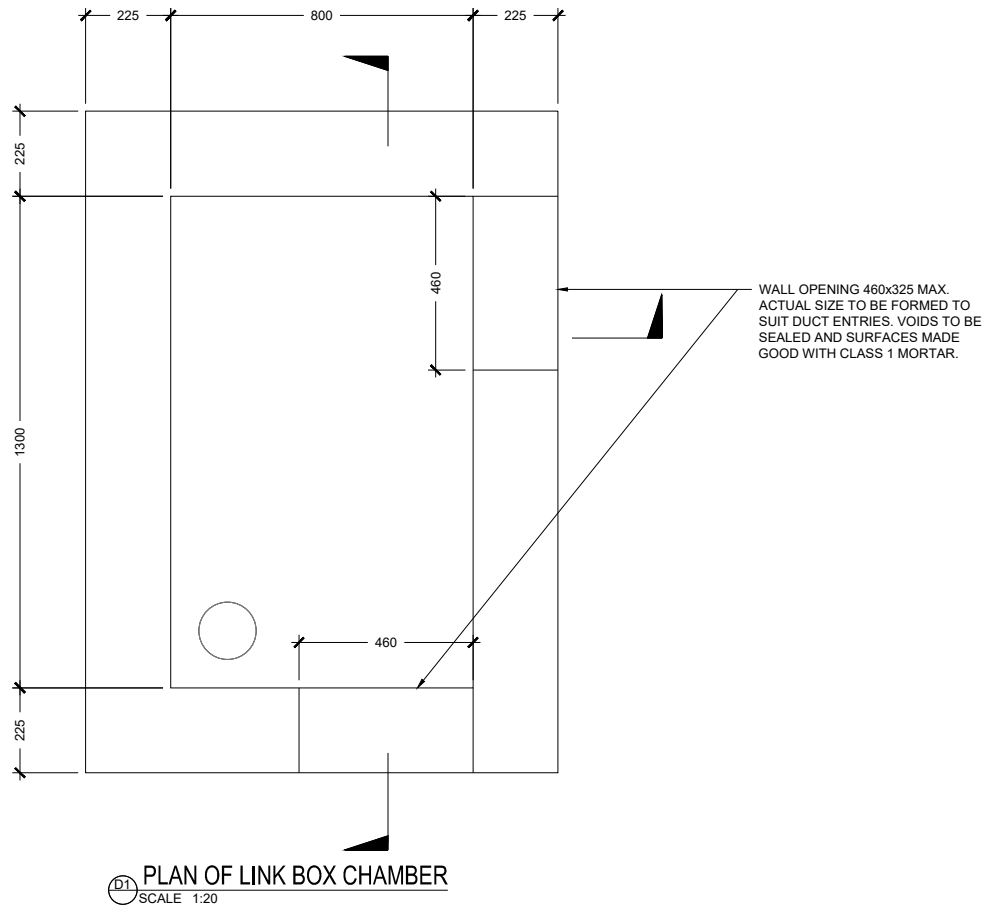
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	INTERFACE MAST DETAILS	DES. BY:	VC	DRG. NO.	1354
		CHK. BY:	ER		
		APP. BY:	BMG		





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  6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
  8. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS.
  9. REINFORCED CONCRETE TO BE MINIMUM GRADE C32/40. SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITIONS APPLY.
  10. CARRIAGEWAY COVERS AND FRAMES TO BE TO B.S. EN 124.
  11. ALL COVERS SHALL HAVE APPROVED BADGE MARKING WITH "ESB" LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID.
  12. BRICKWORK TO BE CLASS B ENGINEERING, BEDS AND JOINTS TO BE CLASS 1 MORTAR.
  13. FINAL POSITION OF LINK BOX TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION.

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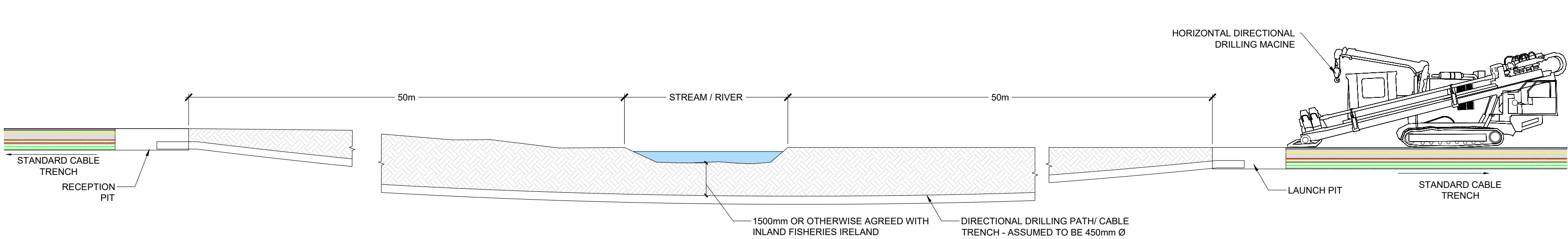
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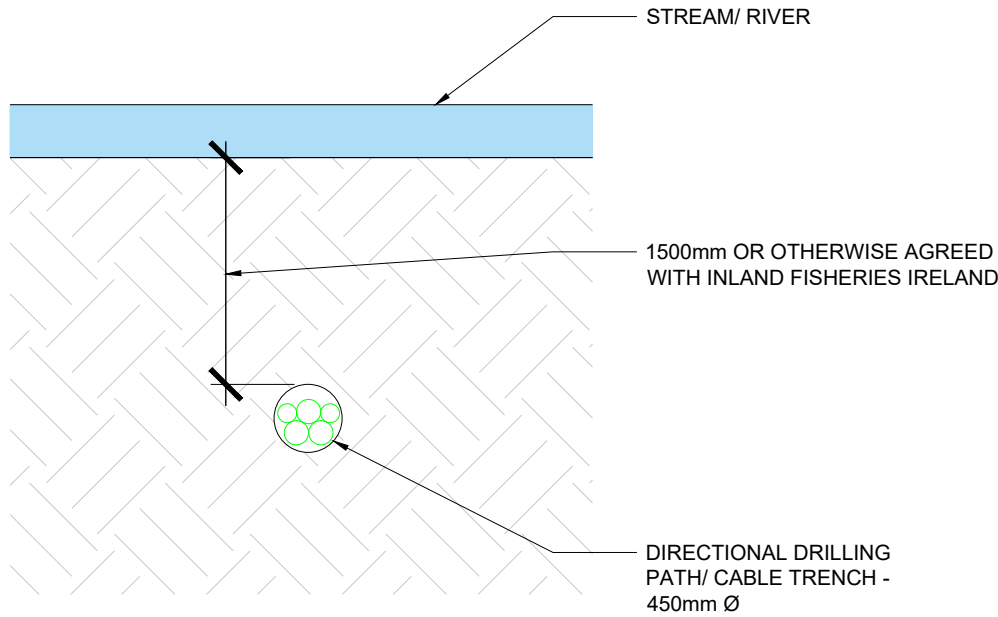
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DRG. TITLE:	LINK BOX CHAMBER GENERAL ARRANGEMENT		DES. BY:	ER	25516	1424	P1
			CHK. BY:	ER			
			APP. BY:	BMG			



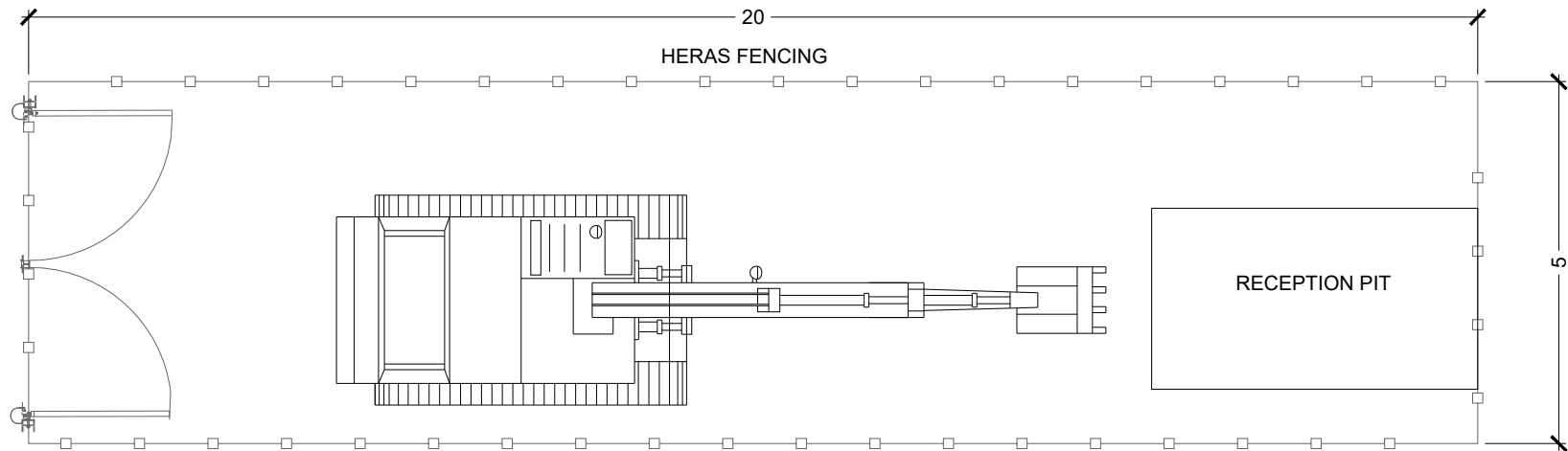


**SECTION OF DIRECTIONAL DRILLING UNDER WATERCOURSE**  
SCALE 1:200

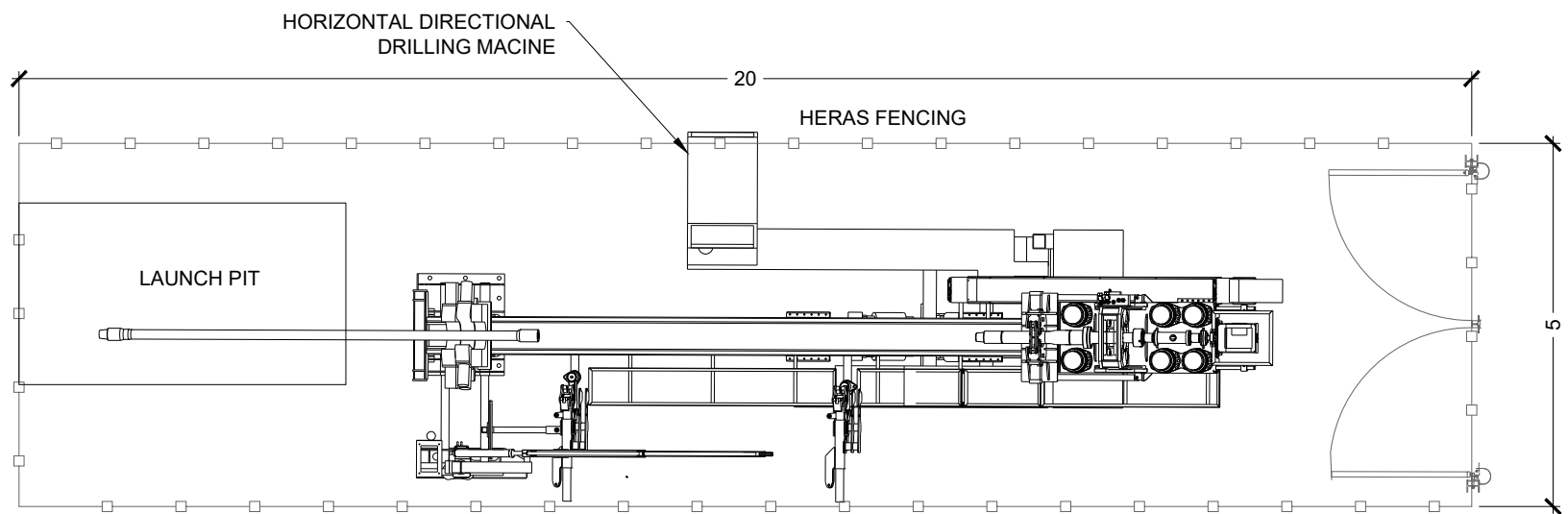
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  4. DESIGN IS SUBJECT TO EIRGRID DESIGN APPROVAL.



**DIRECTIONAL DRILLING ROAD CROSSING DETAIL - CROSS SECTION**  
SCALE 1:50



**DIRECTIONAL DRILLING RECEPTION COMPOUND**  
SCALE 1:100



**DIRECTIONAL DRILLING LAUNCH COMPOUND**  
SCALE 1:100

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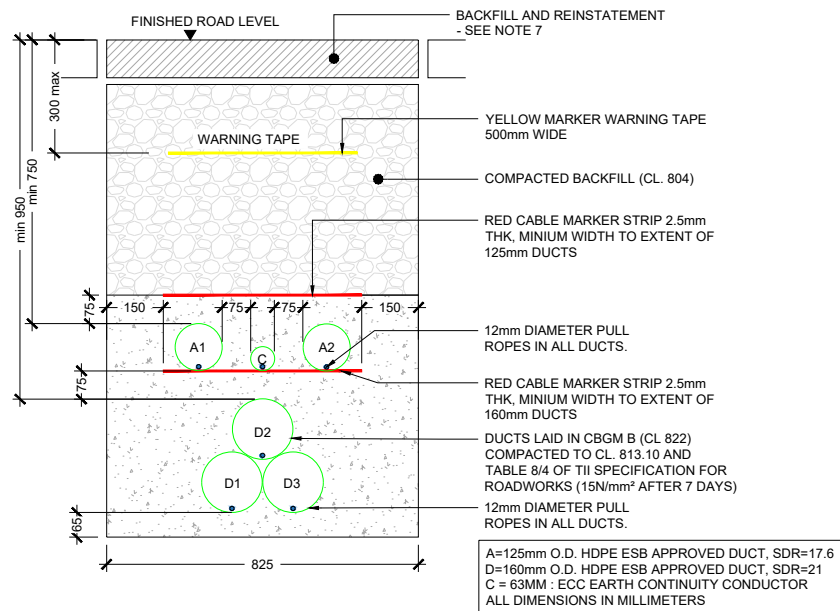
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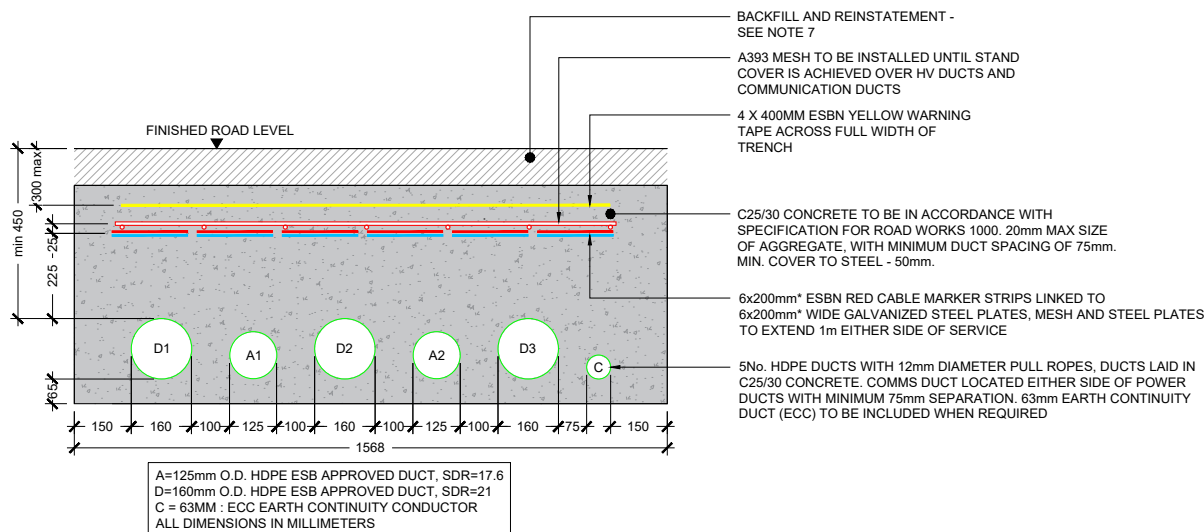
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Tel: +353(01) 216 2956  
Email: [info@mable.ie](mailto:info@mable.ie)  
Website: [www.mable.ie](http://www.mable.ie)

CLIENT:	MANOGATE LTD.	DRAWN:	MM	SCALE: AS SHOWN @ A2		
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	26/06/25	JOB NO.	DRG. NO.	REV.
DRG. TITLE:	HORIZONTAL DIRECTIONAL DRILLING UNDER WATERCOURSE	DES. BY:	MM	25516	1360	P1
		CHK. BY:	ER			
		APP. BY:	BMG			

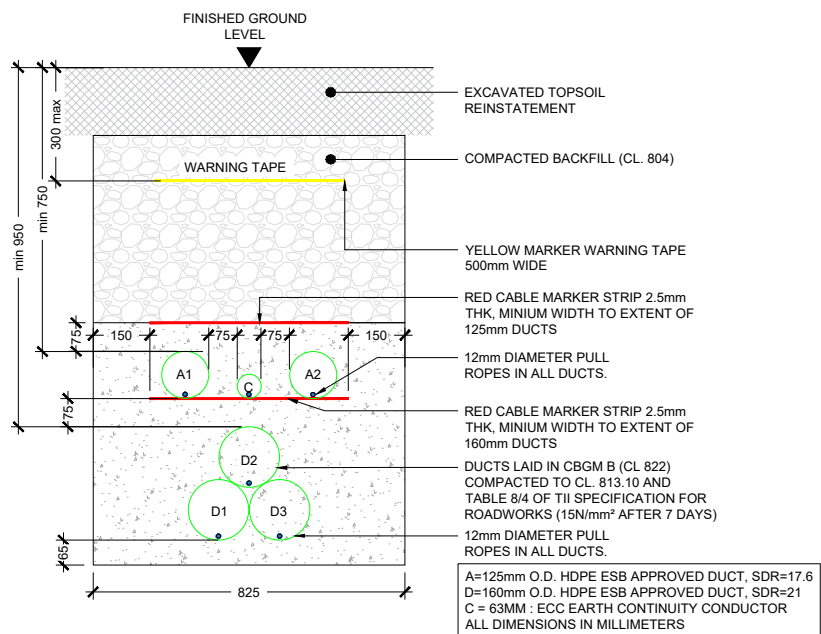




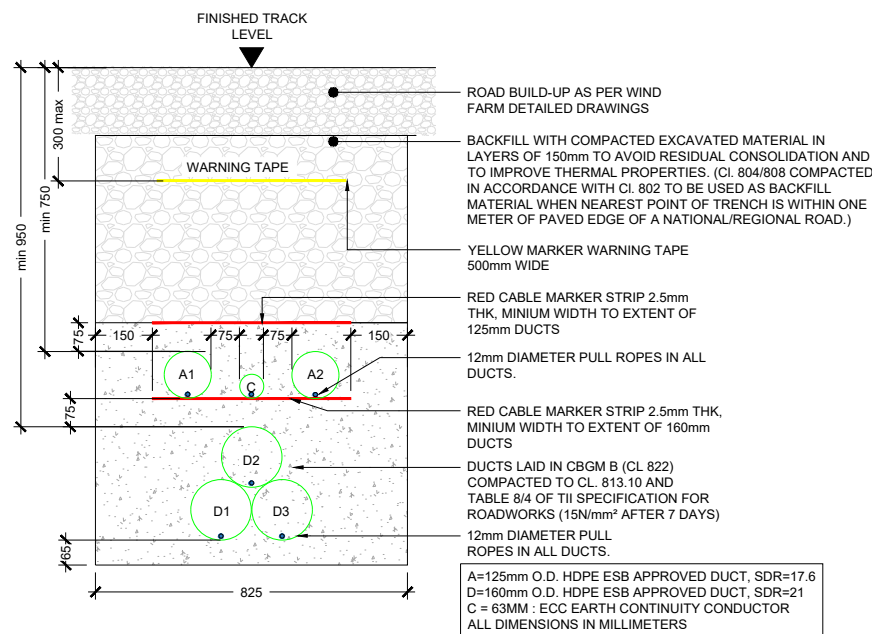
**D1** SECTION THROUGH 110kV CABLE - IN TREFOIL FORMATION IN ROADWAY  
SCALE 1:20



**D2** SECTION THROUGH DUCTING IN FLAT FORMATION  
SCALE 1:20



**D3** SECTION THROUGH 110kV CABLE - IN TREFOIL FORMATION IN SOFT LANDSCAPED AREA  
SCALE 1:20



**D4** SECTION THROUGH 110kV CABLE - IN TREFOIL FORMATION IN WIND FARM ACCESS TRACK  
SCALE 1:20

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  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).

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Website: www.mable.ie

CLIENT:	MANOGATE LTD.
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY
DRG. TITLE:	110kV CABLE TRENCH DETAILS

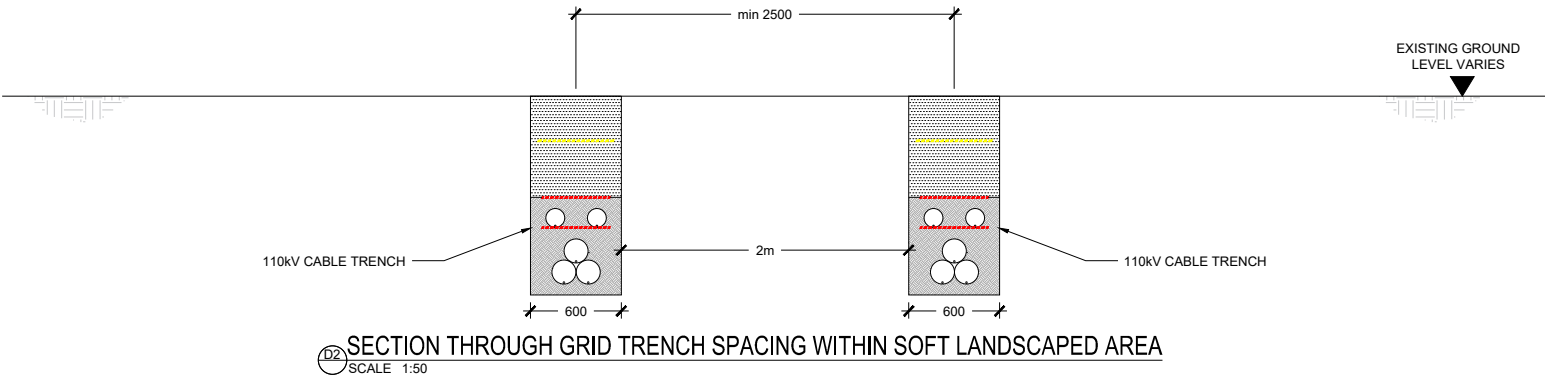
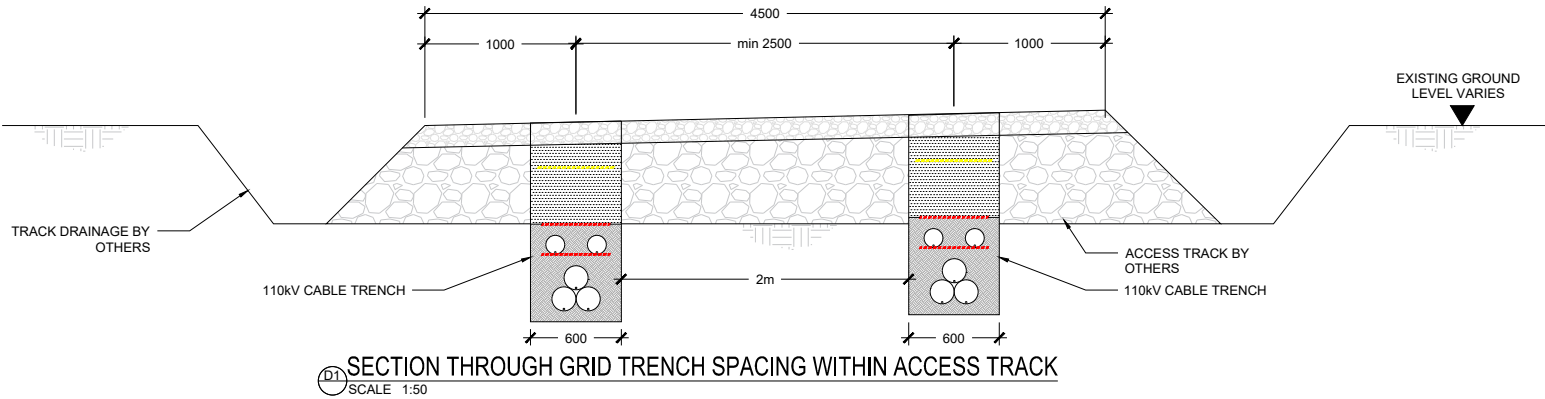
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DATE:	21/11/25
DES. BY:	VC
CHK. BY:	ER
APP. BY:	BMG

SCALE:	1:20 @ A3
JOB NO.	25516
DRG. NO.	1410

REV.	P1
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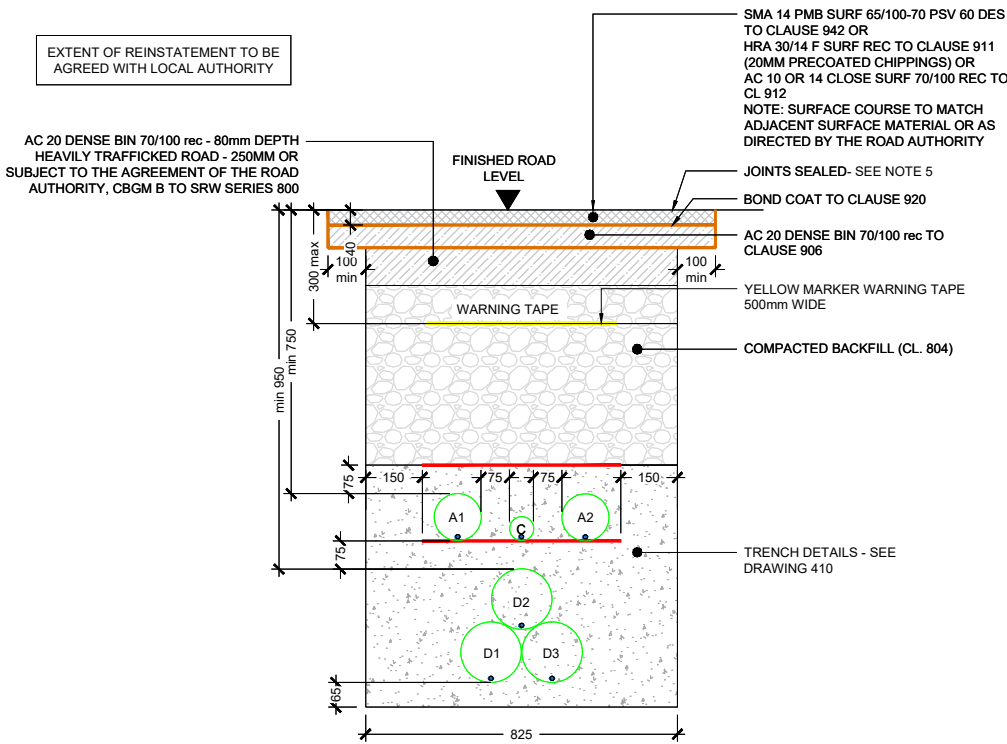
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JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY

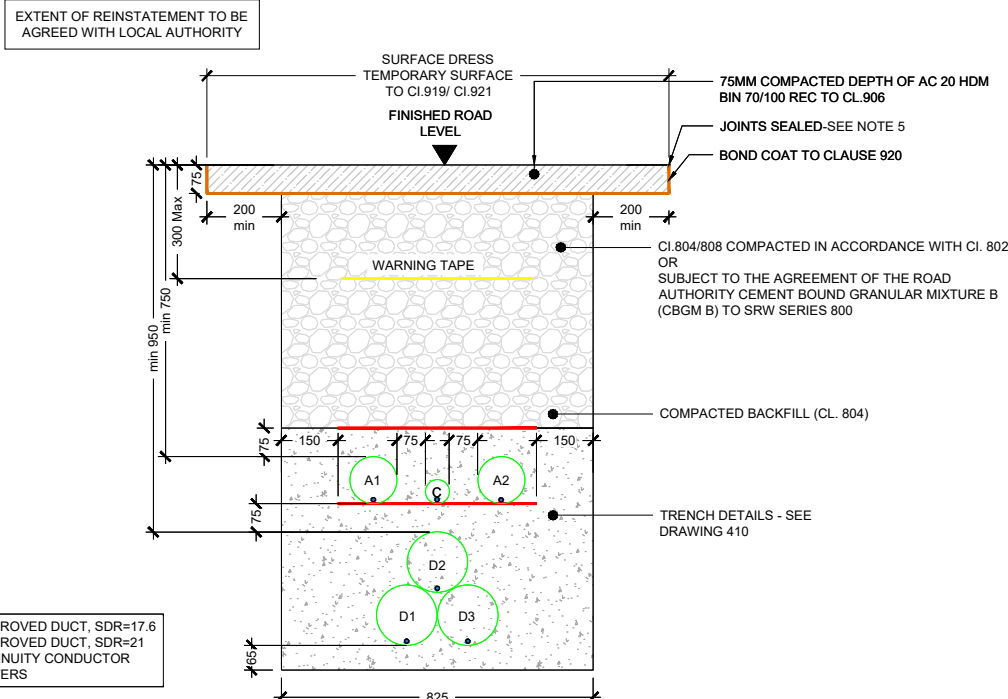
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DATE:	21/11/25	JOB NO.	DRG. NO.	REV.
DES. BY:	ER			
CHK. BY:	ER	25516	1411	P1
APP. BY:	BMG			



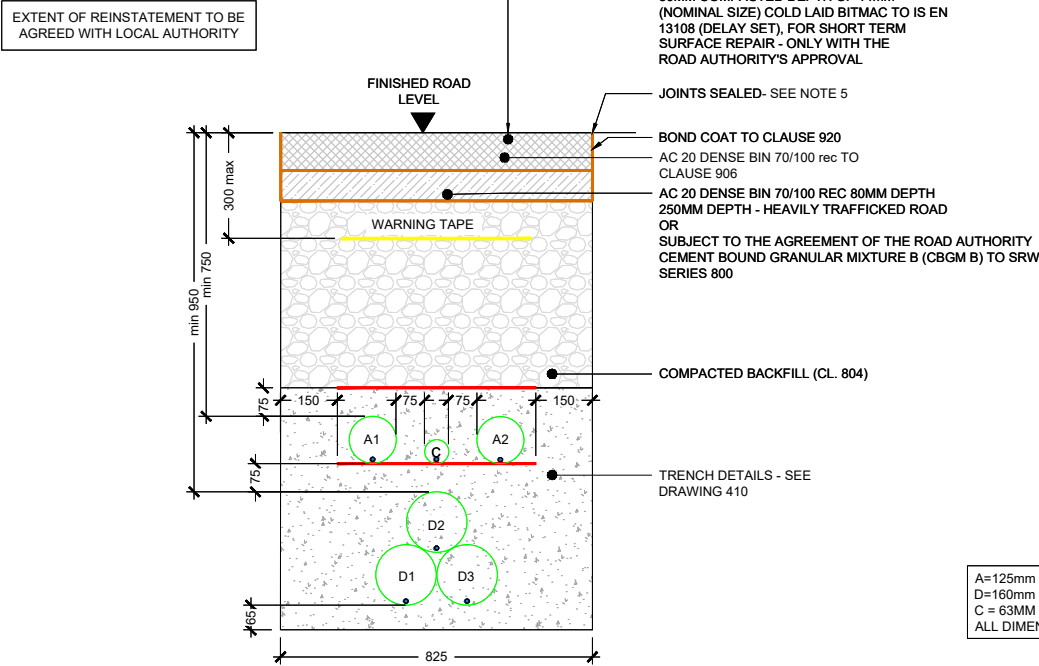


**D1** SECTION THROUGH PERMANENT REINSTATEMENT OF LONGITUDINAL OPENING IN ROADWAY  
SCALE 1:20

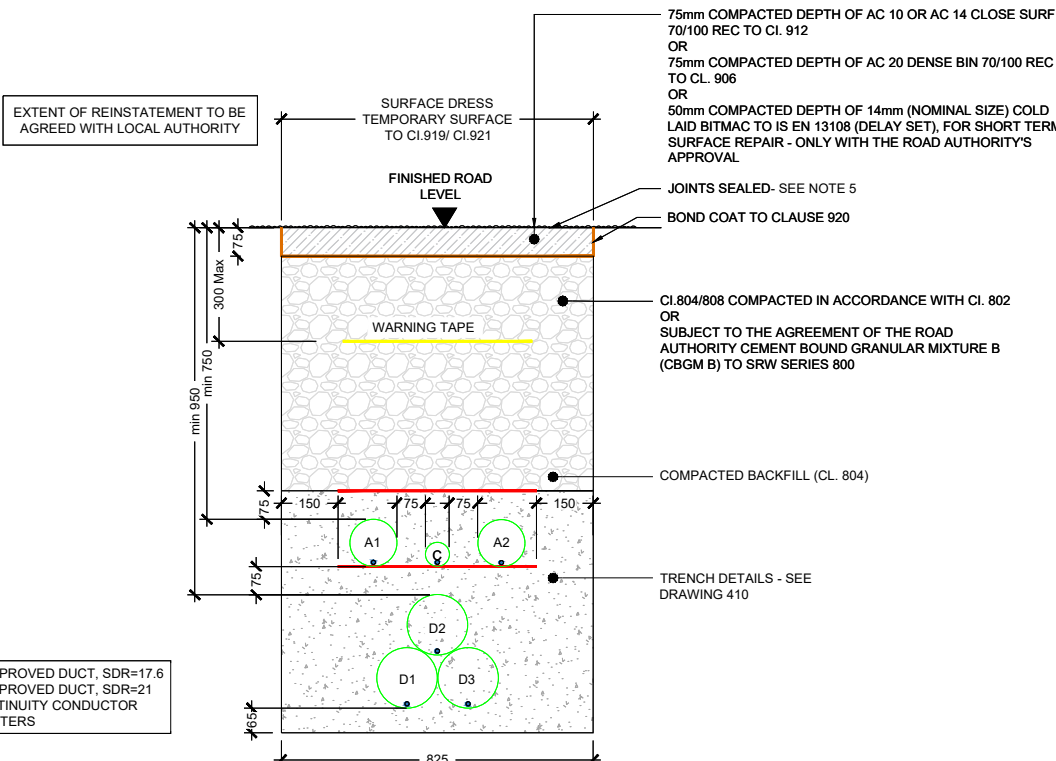


**D2** SECTION THROUGH PERMANENT REINSTATEMENT OF LONGITUDINAL OPENING IN SURFACE DRESSED RURAL UNBOUND ROADWAY  
SCALE 1:20

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  4. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
  5. JOINT SEALER SHALL BE A HOT 40/60 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.



**D3** SECTION THROUGH TEMPORARY REINSTATEMENT OF LONGITUDINAL OPENING IN ROADWAY  
SCALE 1:20



**D4** SECTION THROUGH TEMPORARY REINSTATEMENT OF LONGITUDINAL OPENING IN SURFACE DRESSED RURAL UNBOUND ROADWAY  
SCALE 1:20

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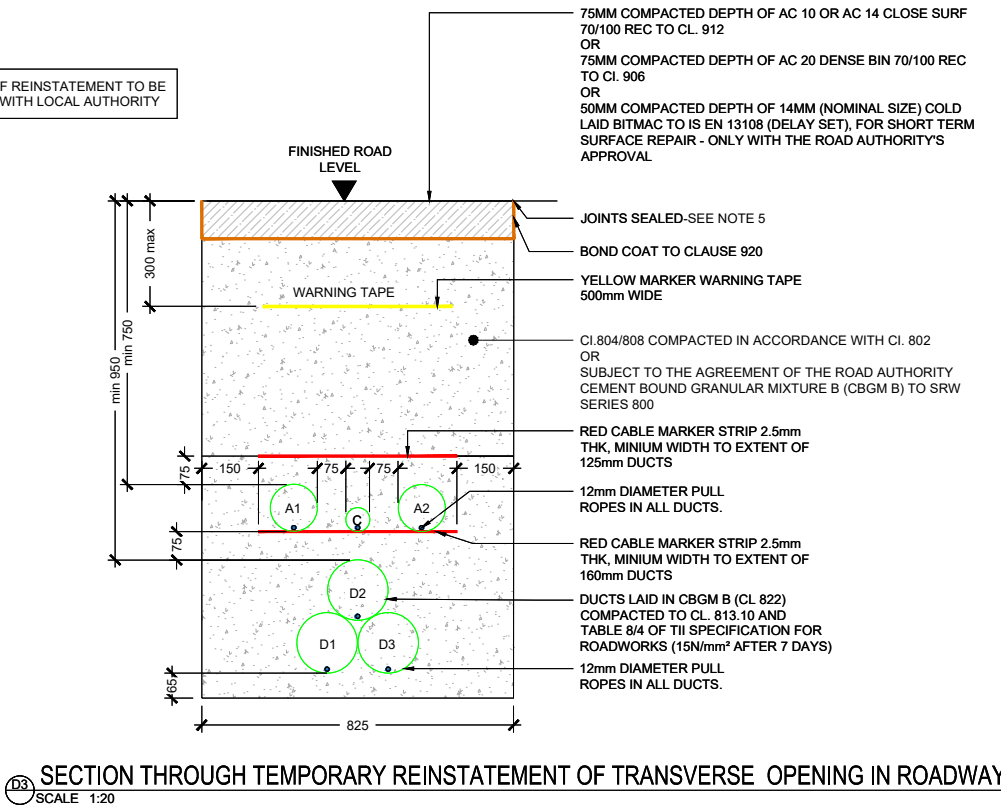
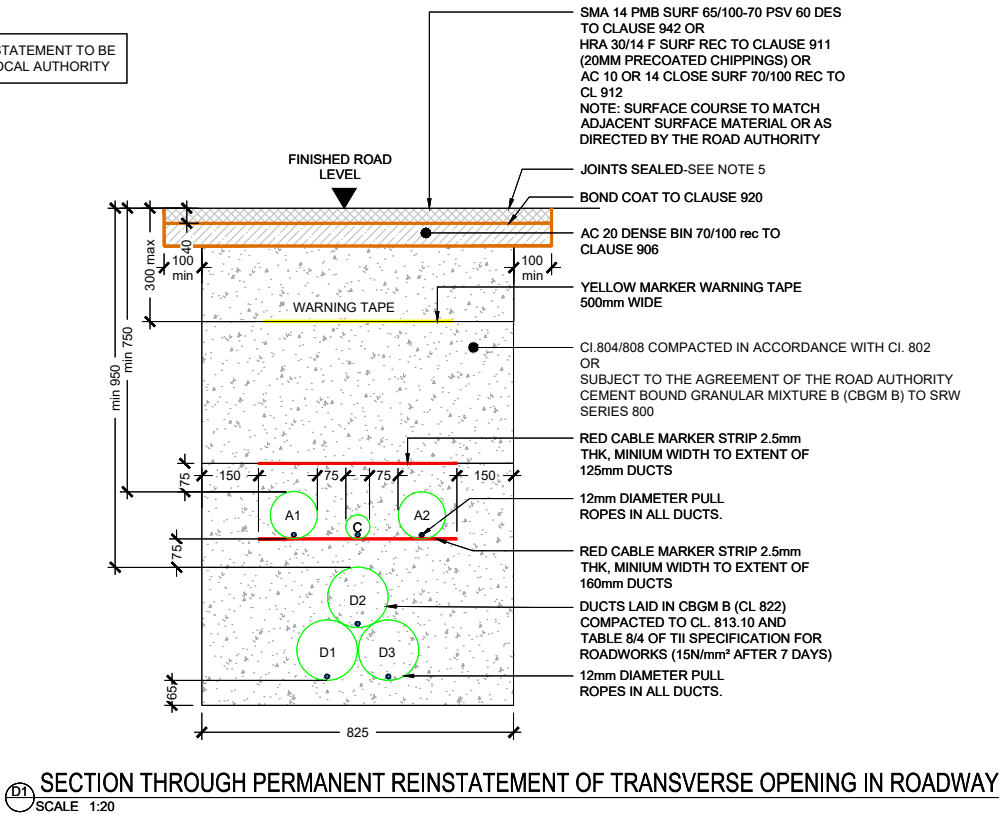
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Email: info@mable.ie  
Website: www.mable.ie

<b>CLIENT:</b>	MANOGATE LTD.	<b>DRAWN:</b>	ER	<b>SCALE:</b> 1:20 @ A3		
<b>JOB TITLE:</b>	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	<b>DATE:</b>	21/11/25	<b>JOB NO.</b>	<b>DRG. NO.</b>	<b>REV.</b>
<b>DRG. TITLE:</b>	110kV CABLE TRENCH DETAILS THROUGH PUBLIC ROAD 1 OF 2	<b>DES. BY:</b>	ER	25516	1412	P1
		<b>CHK. BY:</b>	ER			
		<b>APP. BY:</b>	BMG			





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  5. JOINT SEALER SHALL BE A HOT 40/60 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.

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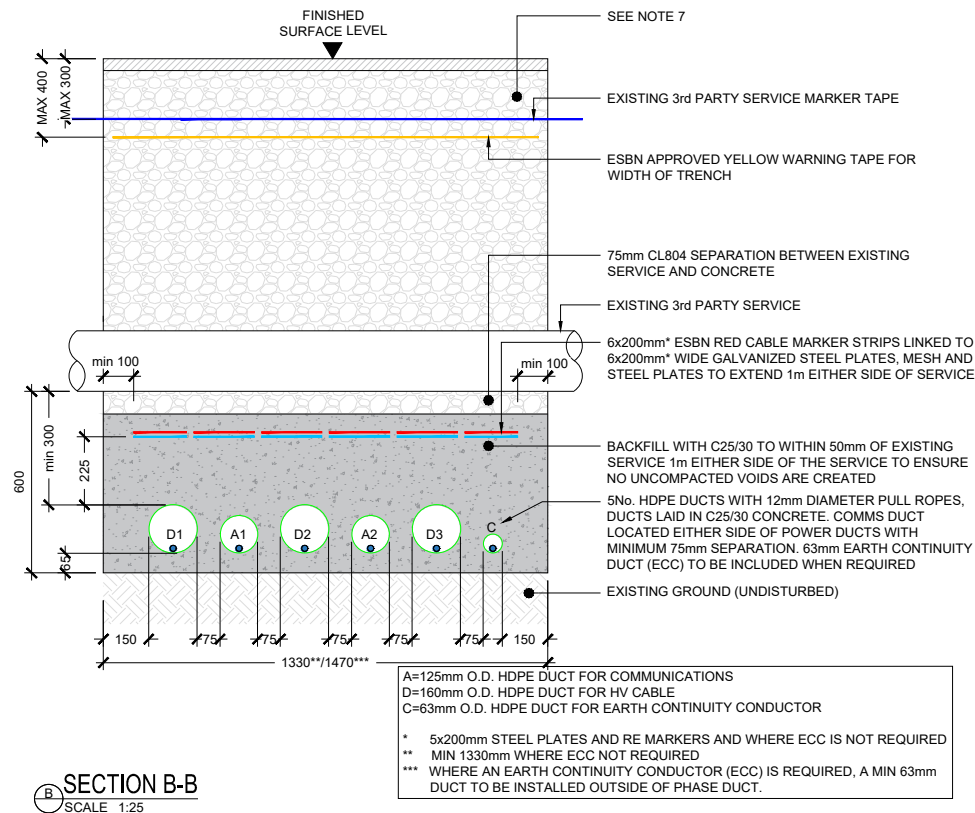
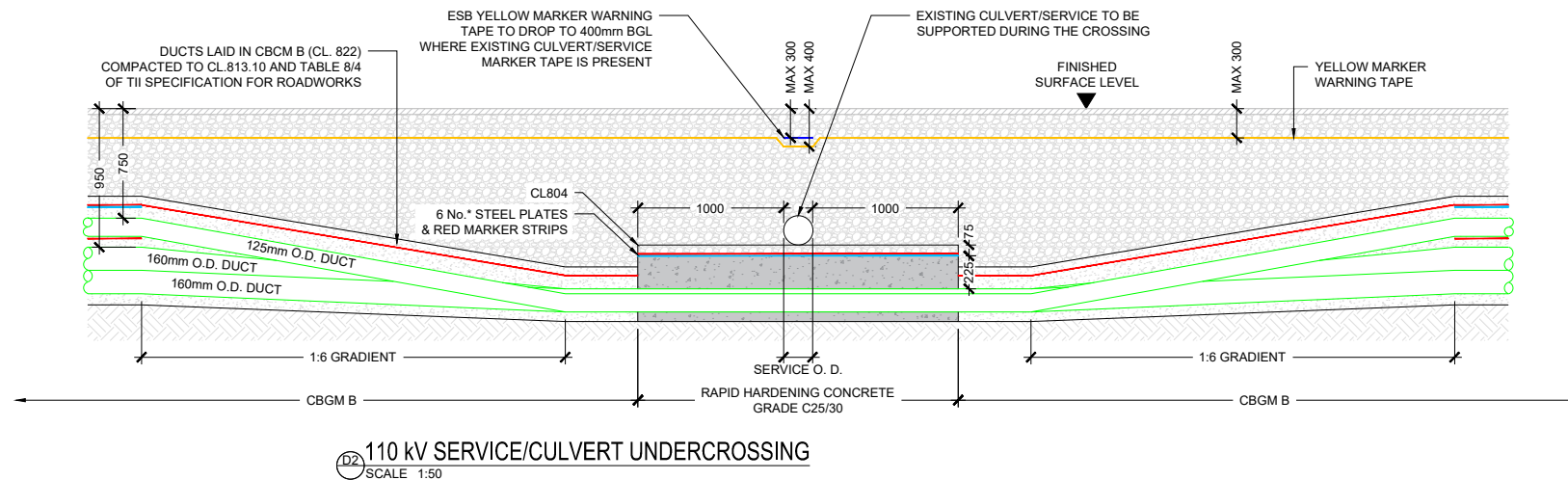
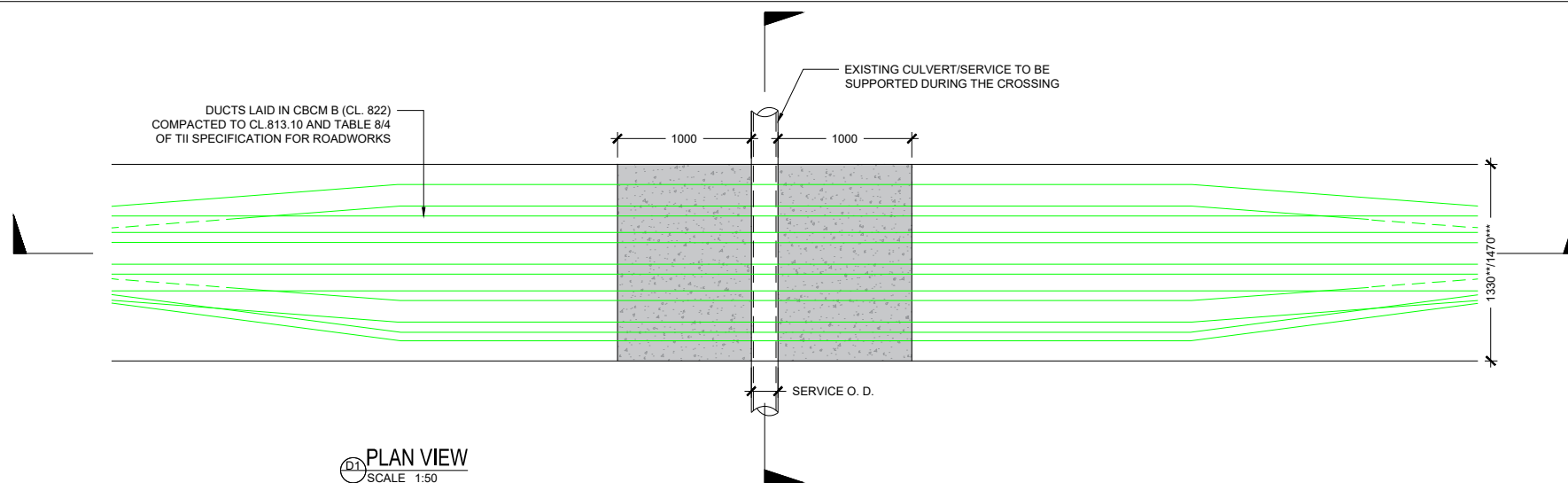
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Tel: +353(01) 216 2956  
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CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	1:20 @ A3
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	110kV CABLE TRENCH DETAILS THROUGH PUBLIC ROAD 2 OF 2	DES. BY:	ER	DRG. NO.	1413
		CHK. BY:	ER		P1
		APP. BY:	BMG		





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  6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).

- LEGEND:
- RED MARKER STRIPS
  - YELLOW MARKER WARNING TAPE
  - EXISTING SERVICE MARKER STRIP
  - 6mm GALVANISED STEEL PLATE
  - RAPID HARDENING WET CONCRETE C25/30
  - CBCM B (CL. 822), COMPACTED TO CL. 813.10
  - BACKFILL, COMPACTED (CL. 804)
  - EXISTING GROUND

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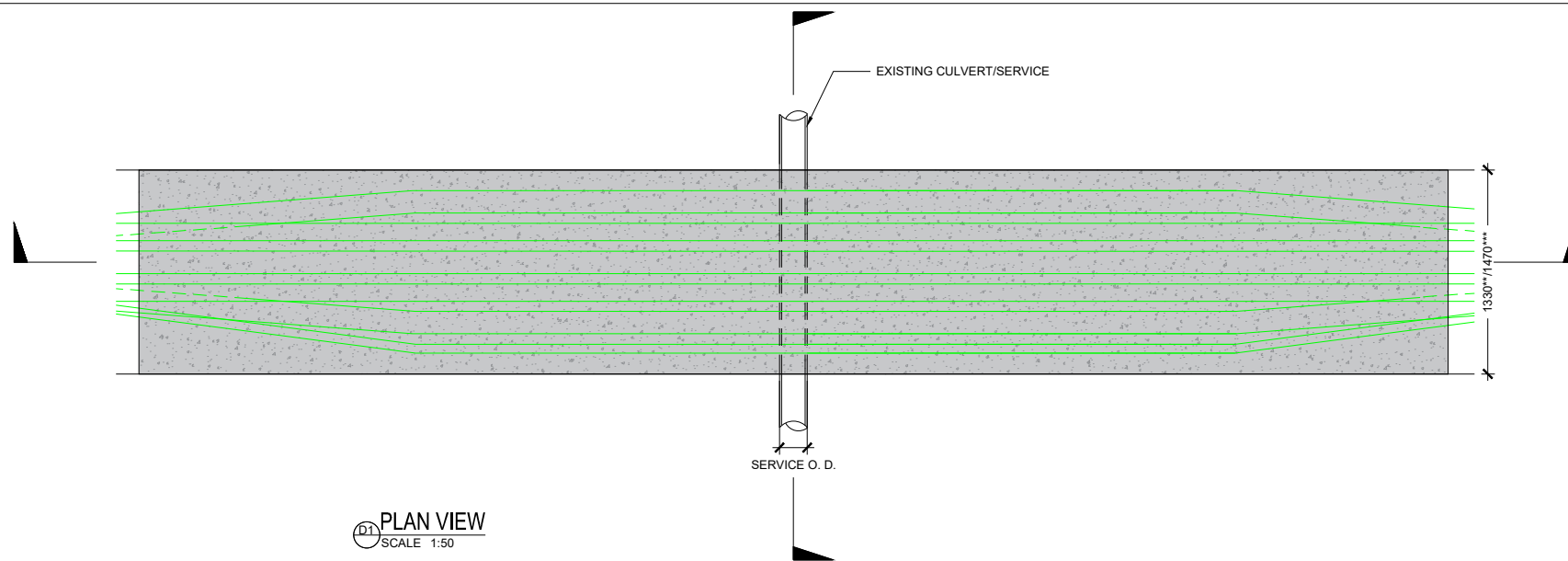
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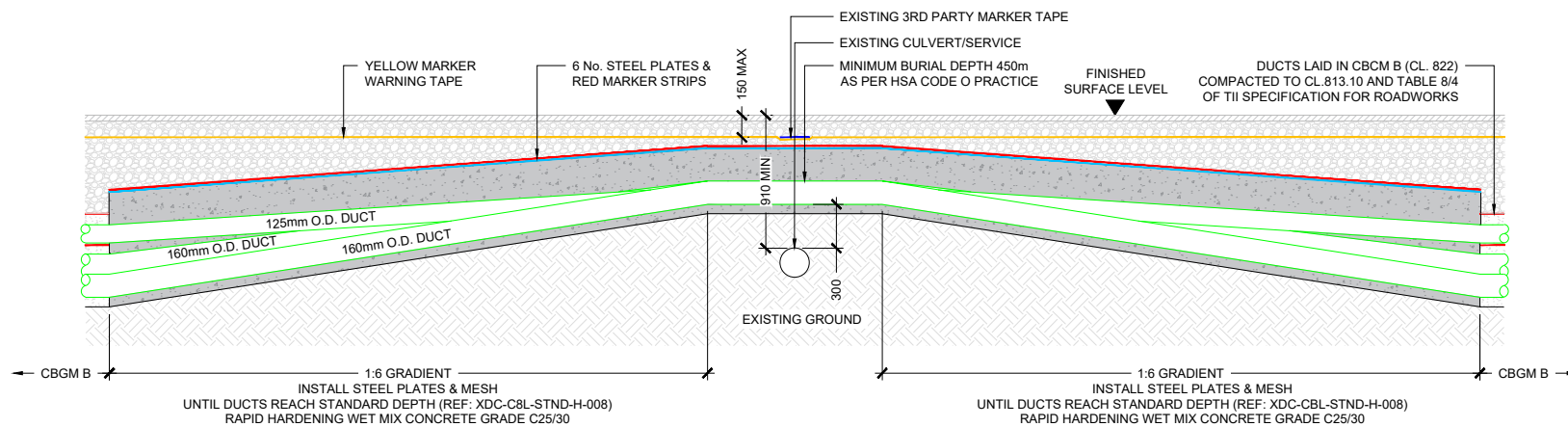
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Email: info@mable.ie  
Website: www.mable.ie

CLIENT:	MANOGATE LTD.	DRAWN:	ER	SCALE:	AS SHOWN @ A3
JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	STANDARD EXISTING SERVICE UNDER-CROSSING; DUCTS IN FULL FLAT FORMATION	DES. BY:	ER	DRG. NO.	1414
		CHK. BY:	ER		P1
		APP. BY:	BMG		

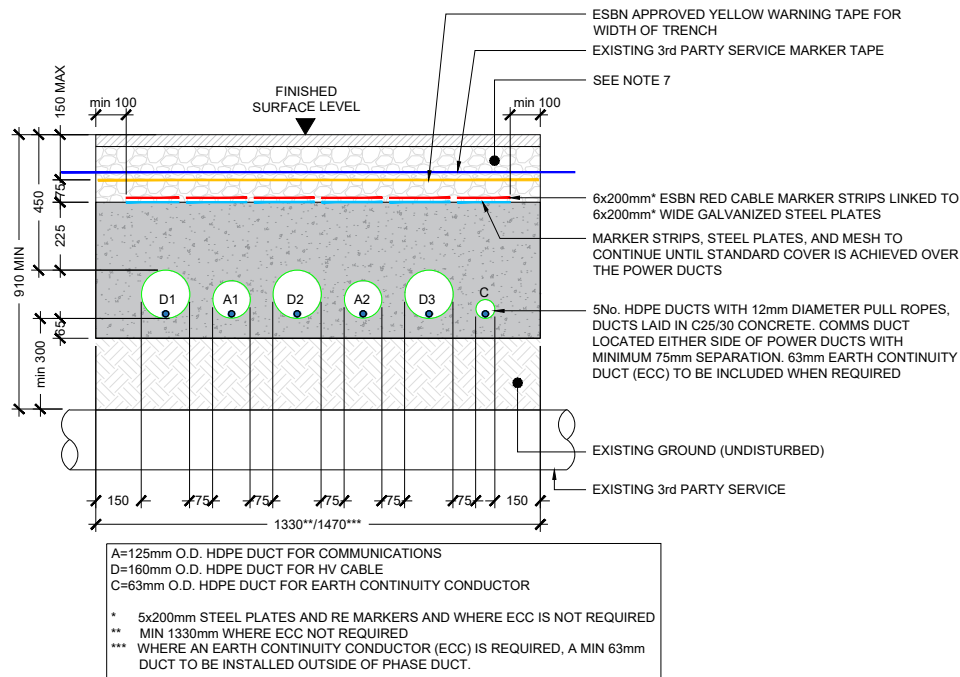




D1  
PLAN VIEW  
SCALE 1:50



D2  
110 kV SERVICE/CULVERT OVERCROSSING  
SCALE 1:50



B  
SECTION B-B  
SCALE 1:25

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  6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
- LEGEND:
- RED MARKER STRIPS
  - YELLOW MARKER WARNING TAPE
  - EXISTING SERVICE MARKER STRIP
  - 6mm GALVANISED STEEL PLATE
  - RAPID HARDENING WET CONCRETE C25/30
  - CBGM B (CL. 822), COMPACTED TO CL. 813.10
  - BACKFILL, COMPACTED (CL. 804)
  - EXISTING GROUND

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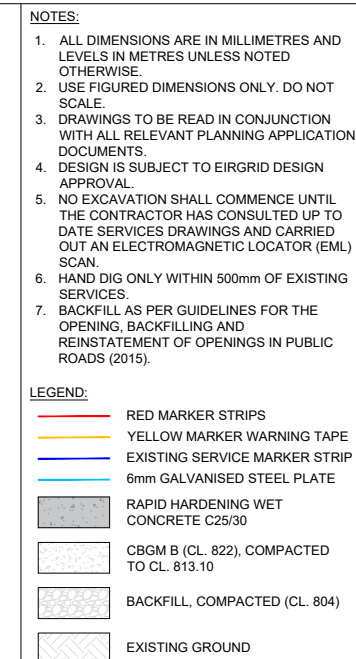
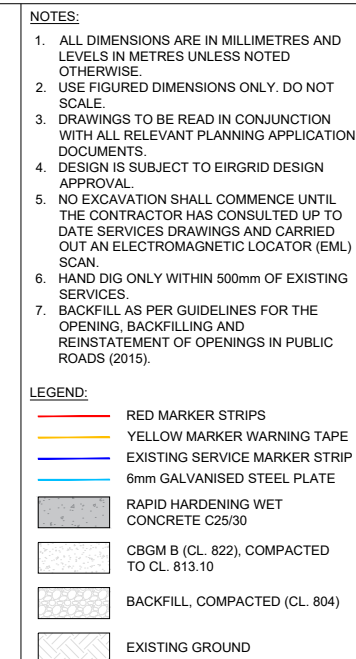
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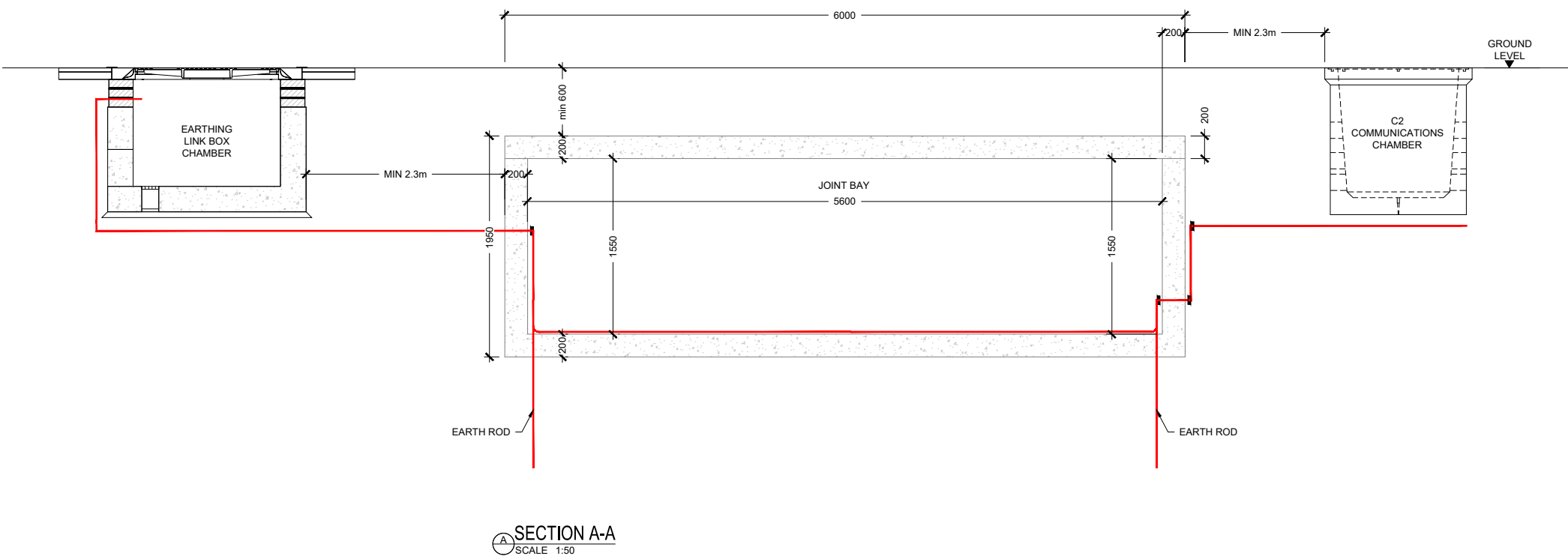
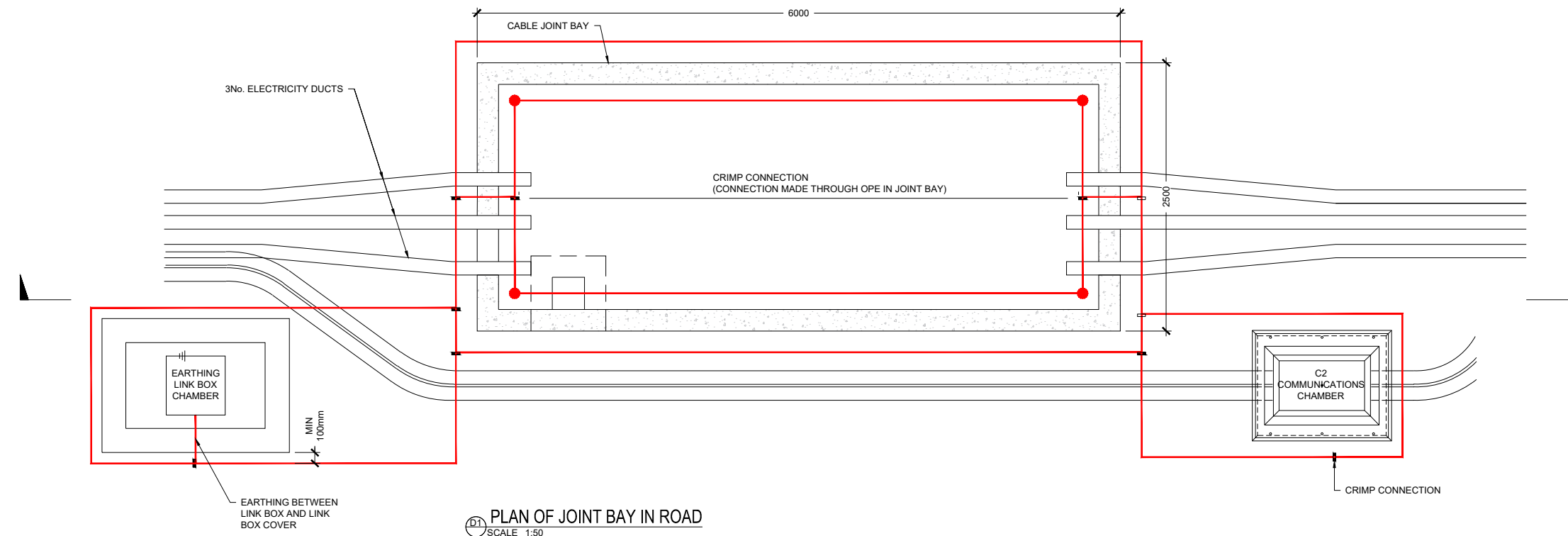
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	STANDARD EXISTING SERVICE OVER-CROSSING; DUCTS IN FULL FLAT FORMATION	DES. BY:	ER	DRG. NO.	1415
		CHK. BY:	ER		P1
		APP. BY:	BMG		





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							JOB TITLE: BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE: 21/11/25	JOB NO.	DRG. NO.	REV.	
								DES. BY: ER	25516	1416	P1	
								CHK. BY: ER				
							DRG. TITLE: 110kV CABLE TRENCH OPEN DRAIN CROSSING	APP. BY: BMG				





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  6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
- LEGEND:
- 95mm² Cu BARE CONDUCTOR
  - EARTH ROD
  - C CRIMP

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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	JOINT BAY EARTHING ARRANGEMENT	DES. BY:	VC	DRG. NO.	1420
		CHK. BY:	ER		P1
		APP. BY:	BMG		



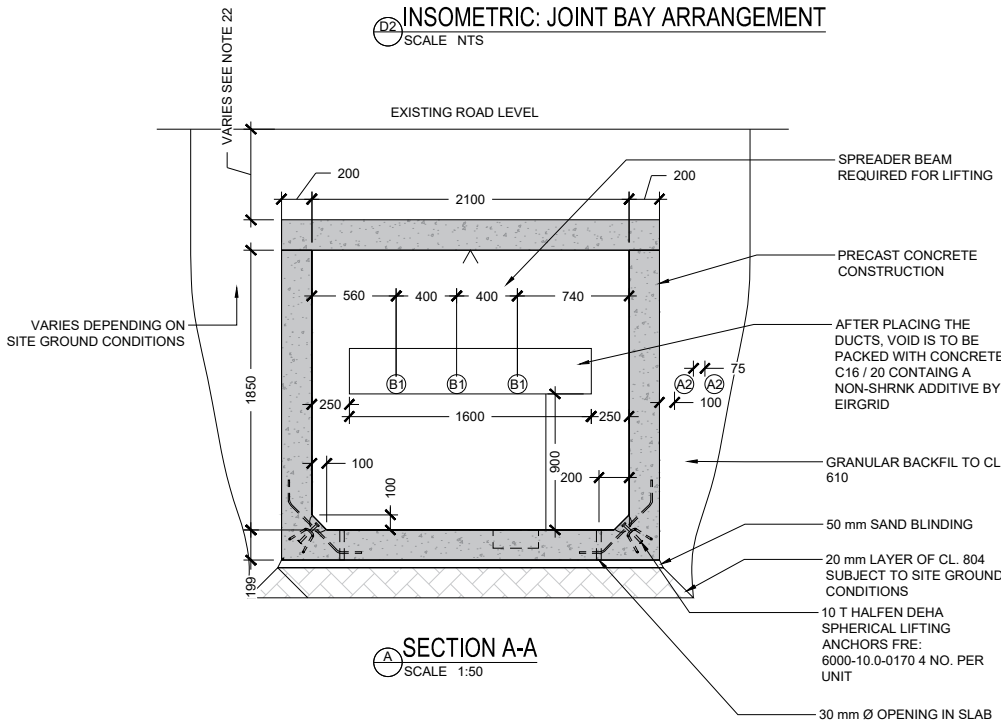
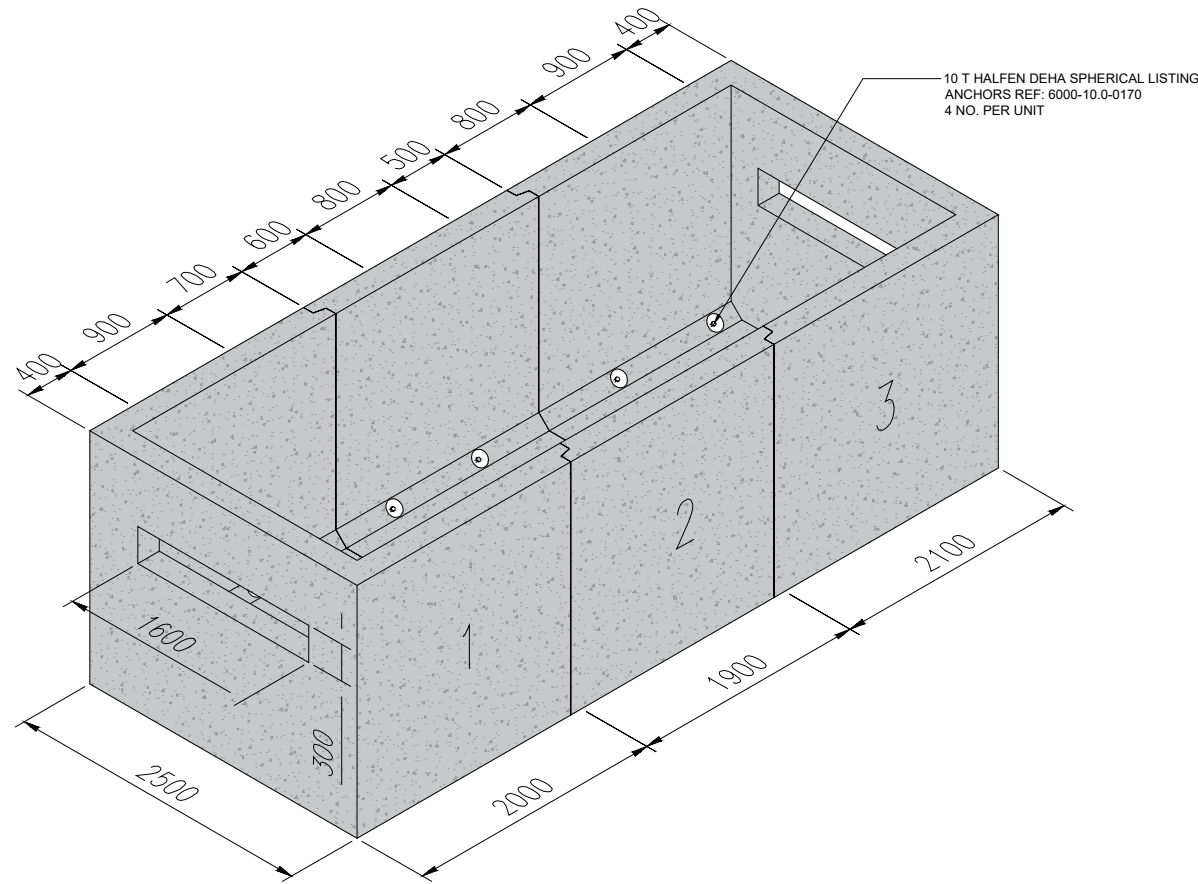
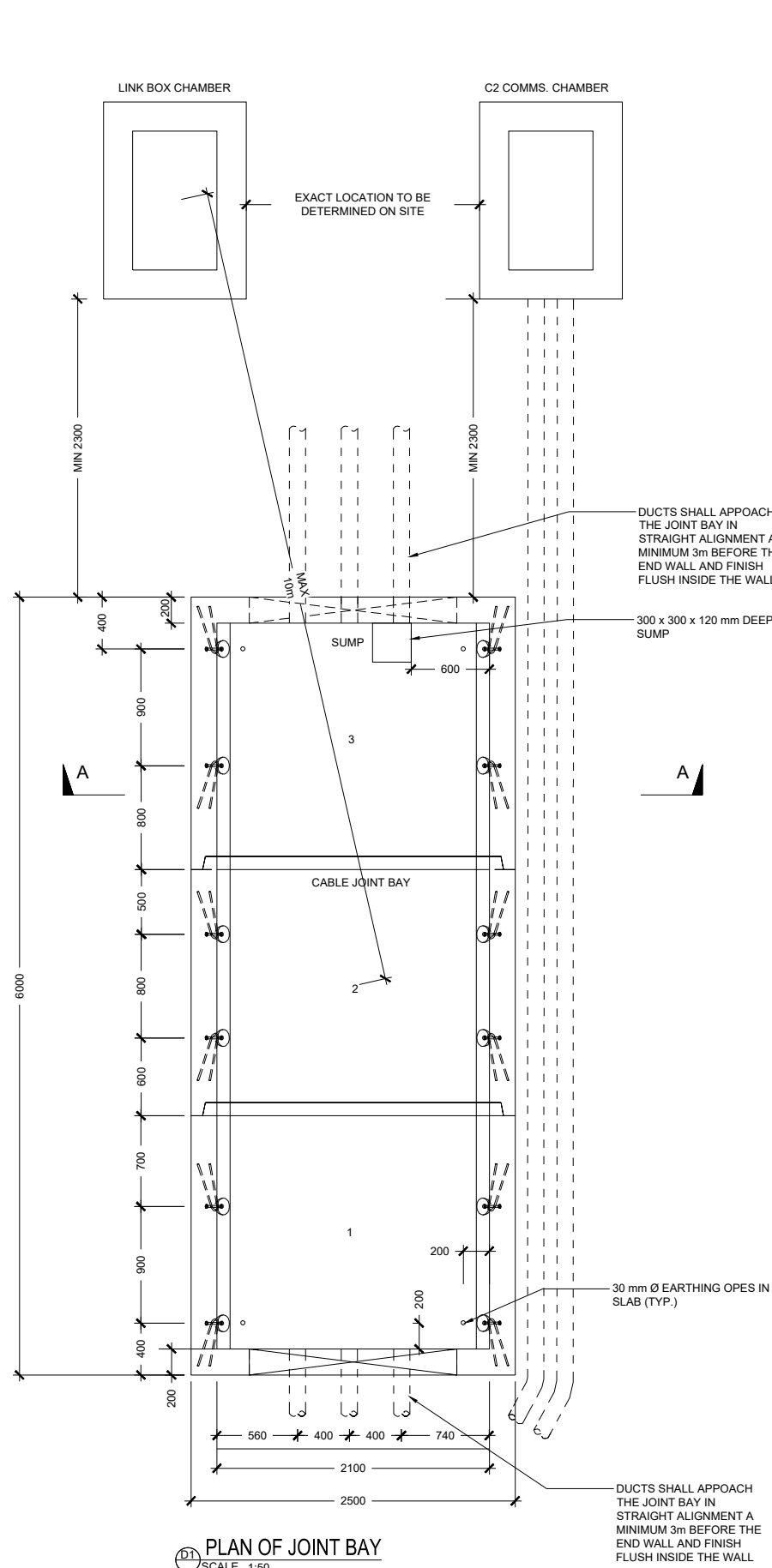


TABLE 1

CONCRETE SPECIFICATION TO I.S. EN 206-1		
	BUILDING & MASS CONCRETE, DRAINAGE PIPE & MANHOLE SURROUNDINGS	FOUNDATIONS & WALLS
EXPOSURE CLASS	X0	XC2, XA2
MIN. CEMENT CONTENT (kg/m³)	240	340
MAX. WATER/CEMENT RATIO	—	0.50
CEMENT TYPE TO I.S. EN 197-1	CEM 1 N	CEM 1 N
CHLORIDE CONTENT CLASS	Cl. 1.0	Cl. 0.40
MAX. AGGREGATE	10	20
MIN. COVER (C <sub>min</sub> ) (mm)	—	40
*COMPRESSIVE STRENGTH CLASS	C16/20	C30/37

NOTES:

- \*C16/20 TO BE READ AS FOLLOWS: 16 – REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm²). 20 – REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm²).
- DESIGN WORKING LIFE TO BE 50 YEARS MINIMUM.

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  - HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES.
  - BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
  - ALL PRECAST CONCRETE ELEMENTS TO BE MANUFACTURED TO B.S. EN 13369:2004 "COMMON RULES FOR PRECAST CONCRETE PRODUCTS".
  - LIFTING INSERTS TO BE DESIGNED & INSTALLED TO PD CEN/TR 15728:2008 "DESIGN AND USE OF INSERTS FOR LIFTING AND HANDLING OF PRECAST CONCRETE ELEMENTS."
  - SPECIFIED LIFTING INSERTS HAVE A S.W.L. OF 10 TONNE.
  - LOCATION AND SPECIFICATION OF LIFTING INSERTS ARE ASSUMED TO FACILITATE DEMOULDING AND HANDLING IN PRECAST MANUFACTURING FACTORY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO NOTIFY EIRGRID IF THESE ARE UNSUITABLE FOR THEIR MANUFACTURING METHODOLOGY. EIRGRID IS TO BE INFORMED OF ANY ALTERNATIVE LIFTING LOCATIONS FOR FACTORY HANDLING & DEMOULDING.
  - CONCRETE TO HAVE A MINIMUM STRENGTH OF 30 N/mm² PRIOR TO HANDLING OF DEMOULDING.
  - CUSTOMER IS TO ENSURE THAT A METHOD STATEMENT AND RISK ASSESSMENT, INCLUDING A LIFTING PLAN, IS PRODUCED FOR INSTALLATION AND ARE AVAILABLE TO EIRGRID FOR REVIEW IF REQUESTED. LIFTING PLAN TO INCORPORATE REQUIREMENTS OF LIFTING INSERTS AND LIFTING LOOP EYES.
  - A MINIMUM LIFTING SLING ANGLE OF 50° TO THE HORIZONTAL IS REQUIRED.
  - LIFTING SYSTEM WHICH ENSURES ALL LIFTING POINTS TAKE ON AN EQUAL LOAD IS REQUIRED.
  - HALFEN DEHA SPHERICAL LIFTING ANCHORS TO BE USED AS SPECIFIED. ANY DEVIATION FROM THIS MUST BE NOTIFIED TO EIRGRID BY THE CUSTOMER. LIFTING INSERTS TO BE INSTALLED AS PER MANUFACTURER'S GUIDELINES AND IN ACCORDANCE WITH PD CEN/TR 15728:2008.
  - FORMWORK FOR PRECASTING TO BE OF A MINIMUM STANDARD OF VARNISHED WOODEN MOULD WITH PLANED BOARDS.
  - COVER TO REINFORCEMENT TO BE 40mm.
  - CONCRETE TO BE GRADE C30/37 AS SPECIFIED IN TABLE 1.
  - ALL CONCRETE TO BE IN ACCORDANCE WITH I.S. EN 206-1:2013 WITH THE MIX DESIGNS SHOWN IN TABLE 1.
  - FOR 7.9m JOINT BAY INSERT 1 No. ADDITIONAL PRECAST SECTION 2. FOR 9.8m JOINT BAY INSERT 2 No. ADDITIONAL PRECAST SECTION 2.
  - THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE:
    - 500mm - IN CULTIVATED FIELDS AND GRASSED LANDS
    - 600mm - IN PAVED ROADS AND GRASS VERGES
    - 600mm - IN PAVED CITY ROADS AND GRASSED VERGES.
  - LINK BOX CHAMBER TO BE POSITIONED AT THE EDGE OF OR OFF ROAD.
  - ALLOWABLE BEARING PRESSURE TO BE AT LEAST 185kPa.
  - FOR HIGHLY AGGRESSIVE ENVIRONMENTS, TABLE 1 IS NOT APPLICABLE. CONSULT WITH EIRGRID FOR BESPOKE DESIGN.
  - JOINT BAY TO BE UNIFORMLY BACKFILLED IN LAYERS NOT EXCEEDING 300mm THICK.
  - WHERE JOINT BAY IS TO BE INSTALLED ADJACENT TO TRAFFICKED LANE, A 1m WIDE LATERAL SAFETY ZONE IS TO BE PROVIDED TO SATISFY DESIGN LOADING ASSUMPTIONS.
  - CUSTOMER IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT INCLUDING WHERE NECESSARY SAFETY BARRIERS, AS PER D.R.A.
  - LINK BOX CHAMBER AND C2 COMM CHAMBER FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION.

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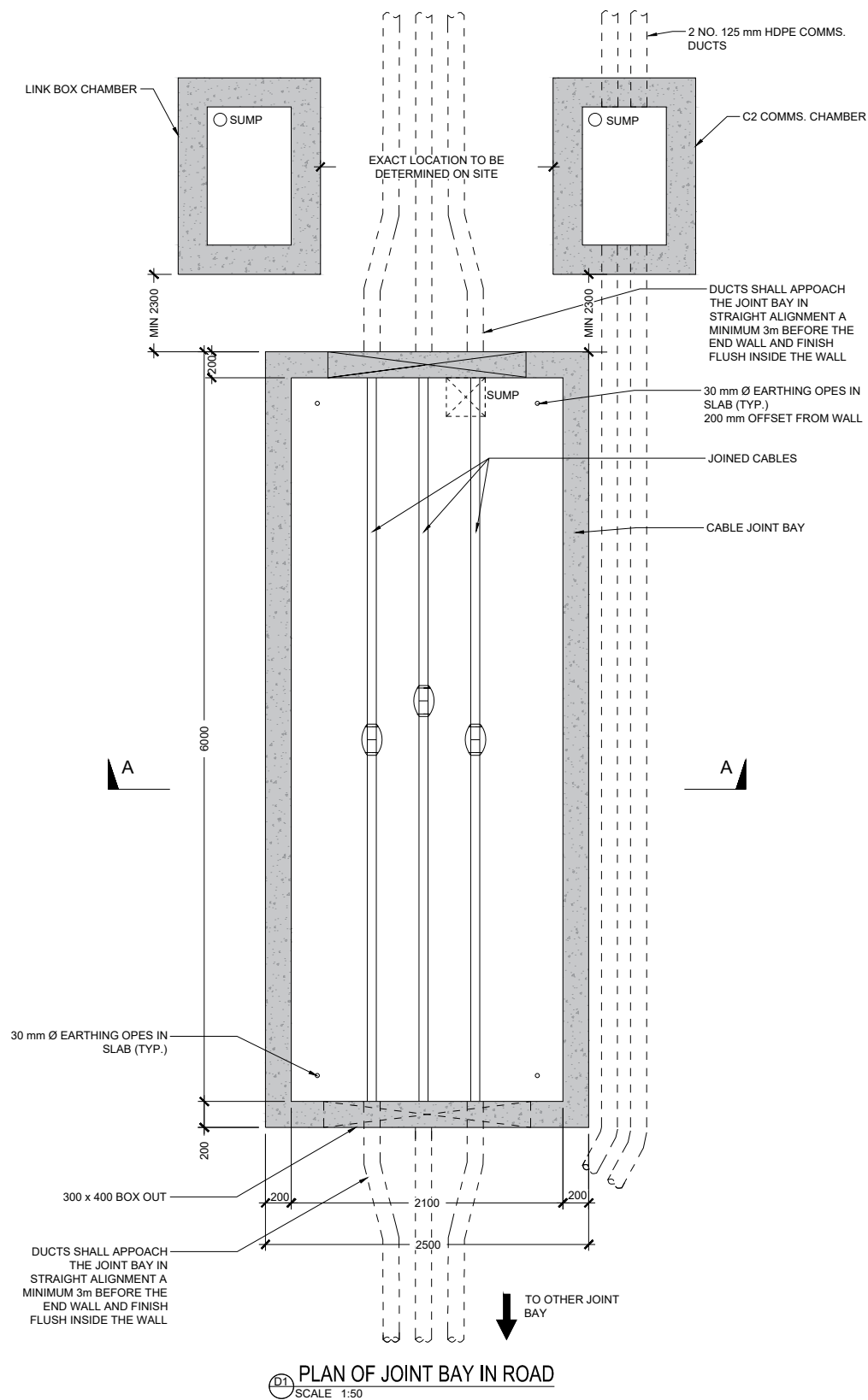
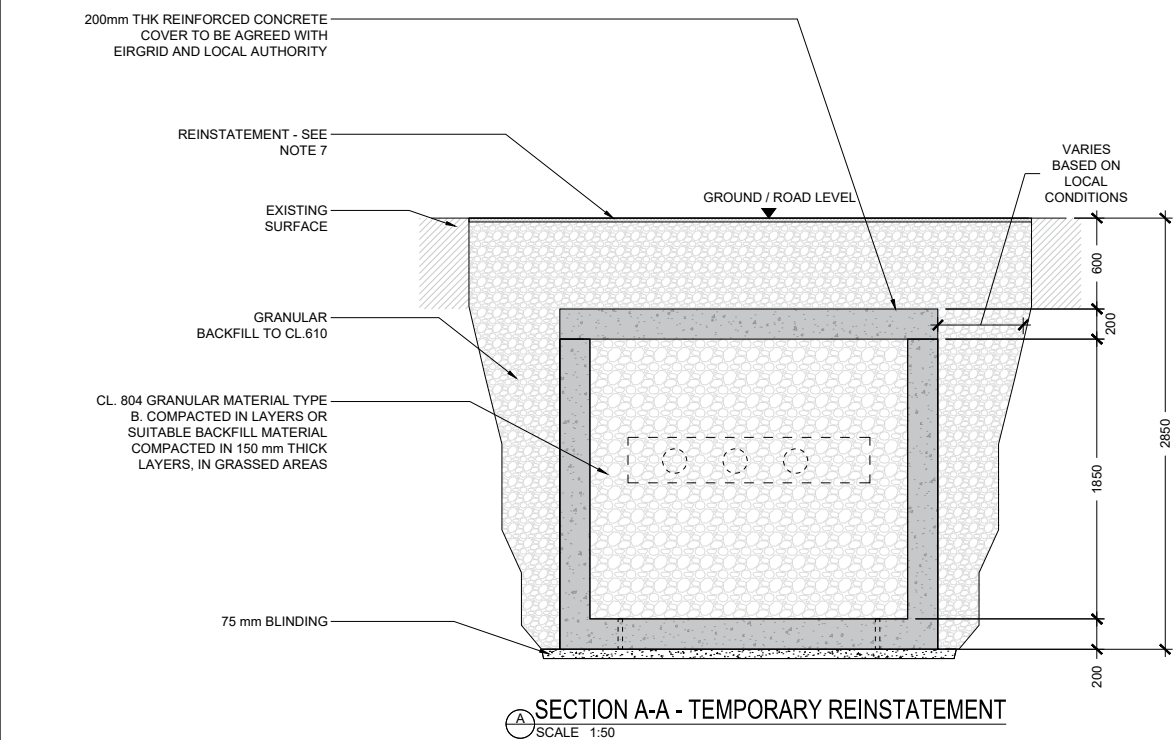
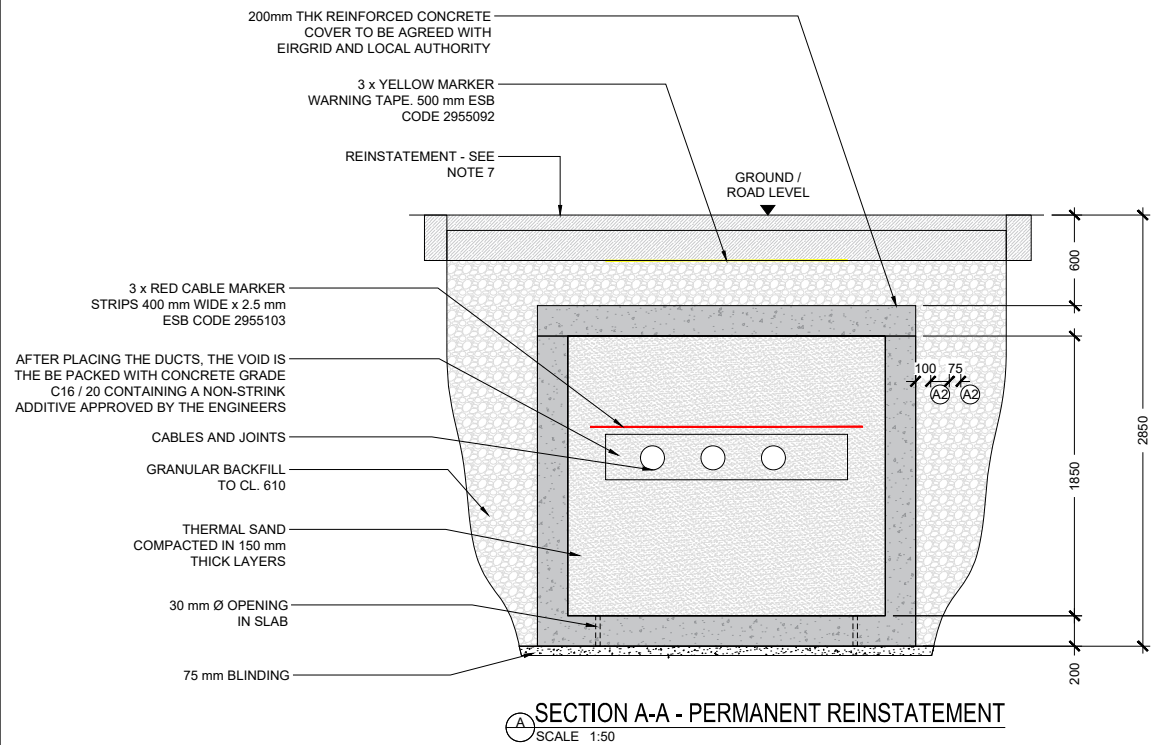
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JOB TITLE:	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY	DATE:	21/11/25	JOB NO.	25516
DRG. TITLE:	JOINT BAY ARRANGEMENT	DES. BY:	VC	DRG. NO.	1421
		CHK. BY:	ER		P1
		APP. BY:	BMG		





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  7. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
  8. THE COMPACTION OF BACKFILL MATERIAL AROUND CABLES SHALL BE CARRIED OUT BY HAND.
  9. THE CONTRACTOR SHALL PROVIDE TEST CERTIFICATES CONFIRMING THAT THE THERMAL RESITIVITY OF THE THERMAL SAND IS A MAXIMUM OF 1 K.m/W.

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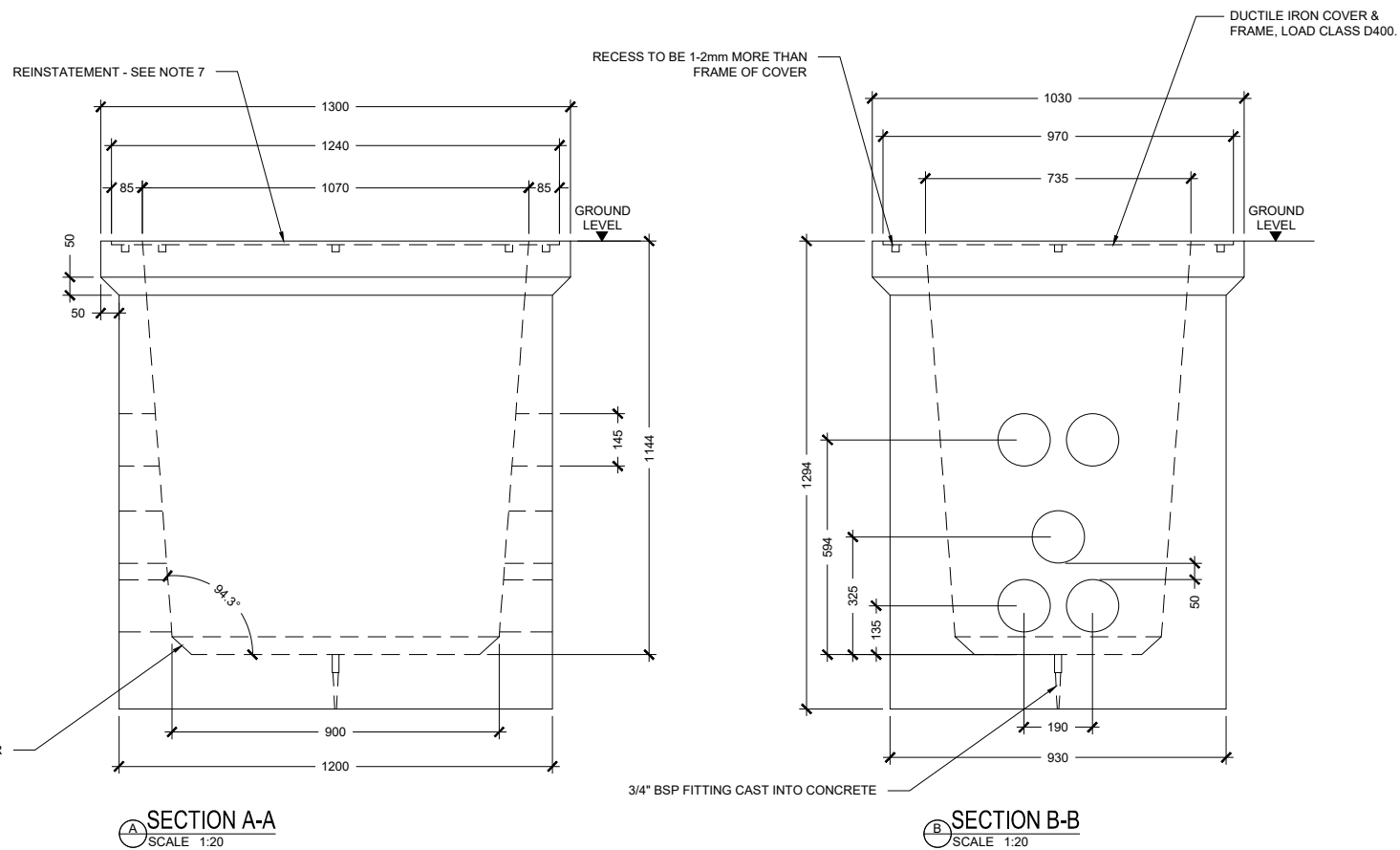
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<b>JOB TITLE:</b>	BALLYFASY WF 110kV GRID CONNECTION, CO. KILKENNY		<b>DATE:</b>	21/11/25	<b>JOB NO.</b>	<b>DRG. NO.</b>	<b>REV.</b>
<b>DRG. TITLE:</b>	JOINT BAY REINSTATEMENT		<b>DES. BY:</b>	VC	25516	1422	P1
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<b>JOB TITLE:</b>	BALLYFASY WF 110KV GRID CONNECTION, CO. KILKENNY
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DRG. TITLE: STANDARD C2 CHAMBER  
GENERAL ARRANGEMENT

<b>DRAWN:</b>	ER	<b>SCALE:</b> 1:20 @ A3		
<b>DATE:</b>	21/11/25	<b>JOB NO.</b>	<b>DRG. NO.</b>	<b>REV.</b>
<b>DES. BY:</b>	ER	25516	1423	P1
<b>CHK. BY:</b>	ER			
<b>APP. BY:</b>	BMG			