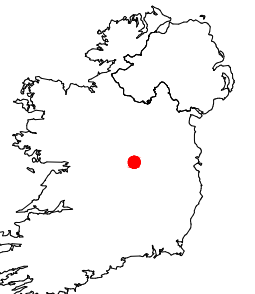




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- KEY:**
- PLANNING APPLICATION BOUNDARY (OUTSIDE EDGE OF LINE DENOTES BOUNDARY)
  - SITE ENTRANCE
  - EXISTING TRACK TO BE UPGRADED TO ACHIEVE A MINIMUM WIDTH OF 3.0m
  - PROPOSED ACCESS TRACK/HARDSTAND
  - PROPOSED TEMPORARY ACCESS TRACK
  - INDICATIVE 110kV UGC ROUTE
  - INDICATIVE 110kV HDD CROSSING
  - PROPOSED JOINT BAY
  - INDICATIVE 33kV UGC ROUTE
  - INDICATIVE 33kV HDD CROSSING
  - EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV & 33 kV CABLES CROSSING
  - PROPOSED 33kV DITCH CABLE CROSSING
  - PROPOSED 110kV DITCH CABLE CROSSING
  - PROPOSED PERIMETER FENCE
  - PROPOSED GATE
  - PROPOSED CCTV
  - PROPOSED TEMPORARY CONSTRUCTION COMPOUND
  - PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
  - SITE ENTRANCE VISIBILITY SPLAY
  - RECORDED NATIONAL MONUMENTS
  - PROPOSED NATURAL HERITAGE AREA

- EXISTING UTILITIES**
- ESB LV OVERHEAD LINE
  - ESB MV OVERHEAD LINE
  - ESB HV OVERHEAD LINE
  - TELECOM OVERHEAD LINE
  - EIRE NETWORK OVERHEAD LINE
  - EIRE NETWORK UNDERGROUND LINE
  - ESB LV UNDERGROUND LINE
  - ESB HV UNDERGROUND LINE
  - IRISH WATER MAINS
  - LOW PRESSURE GAS NETWORK

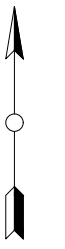



SITE LOCATION - NOT TO SCALE

- Map series:**
- 1:5,000: 3372
  - 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

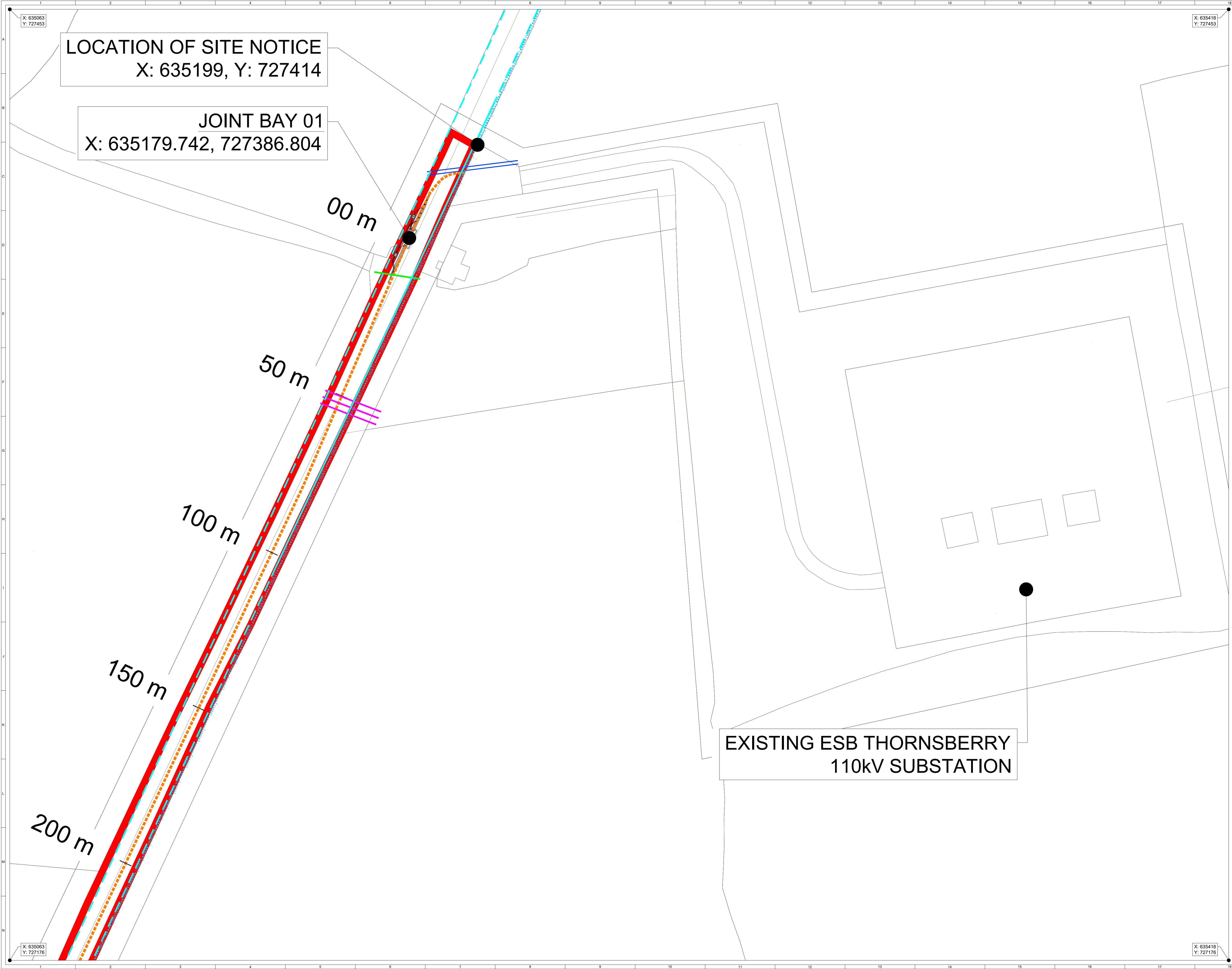
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**Renewable Energy Systems Ltd**  
Registered Office: Beaufort Court,  
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Hertfordshire WD4 8LR

**OVERVIEW**  
SHEET 1 OF 24



8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)	
7	FG	JM	RB	2025-11-27	Client compound update	
6	FG	JM	RB	2025-07-04	Substation layout updated	
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update	
ISSUE/ DRAWN		CHKD	APPD	DATE	REVISION NOTES	
PURPOSE		PERMITTING		SCALE @ A1		1:10,000
LAYOUT DWG		N/A		T-LAYOUT NO.		N/A
COORDINATES		IRENET95 ITM				
PROJECT TITLE		COLEHILL 110KV SUBSTATION				
DRAWING TITLE		FIGURE 103 110KV SUBSTATION SITE LAYOUT				
DRAWING NUMBER		04386-RES-LAY-DR-PT-101				REV 8
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- ESB LV OVERHEAD LINE
- ESB MV OVERHEAD LINE
- ESB HV OVERHEAD LINE
- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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SHEET 2 OF 24

8

FG

JM

RB

2025-11-28

Minor amend (substations hatch)

7

FG

JM

RB

2025-11-27

Client compound update

6

FG

JM

RB

2025-07-04

Substation layout updated

5

FG

JM

RB

2024-11-11

Boundary, access track, EirGrid compound update

ISSUE/

DRAWN

CHKD

APPD

DATE

REVISION NOTES

PURPOSE

PERMITTING

SCALE @ A1

1:500

LAYOUT DWG

N/A

T-LAYOUT NO.

N/A

COORDINATES

IRENET95 ITM

PROJECT TITLE

COLEHILL  
110KV SUBSTATION

DRAWING TITLE

FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT

DRAWING NUMBER

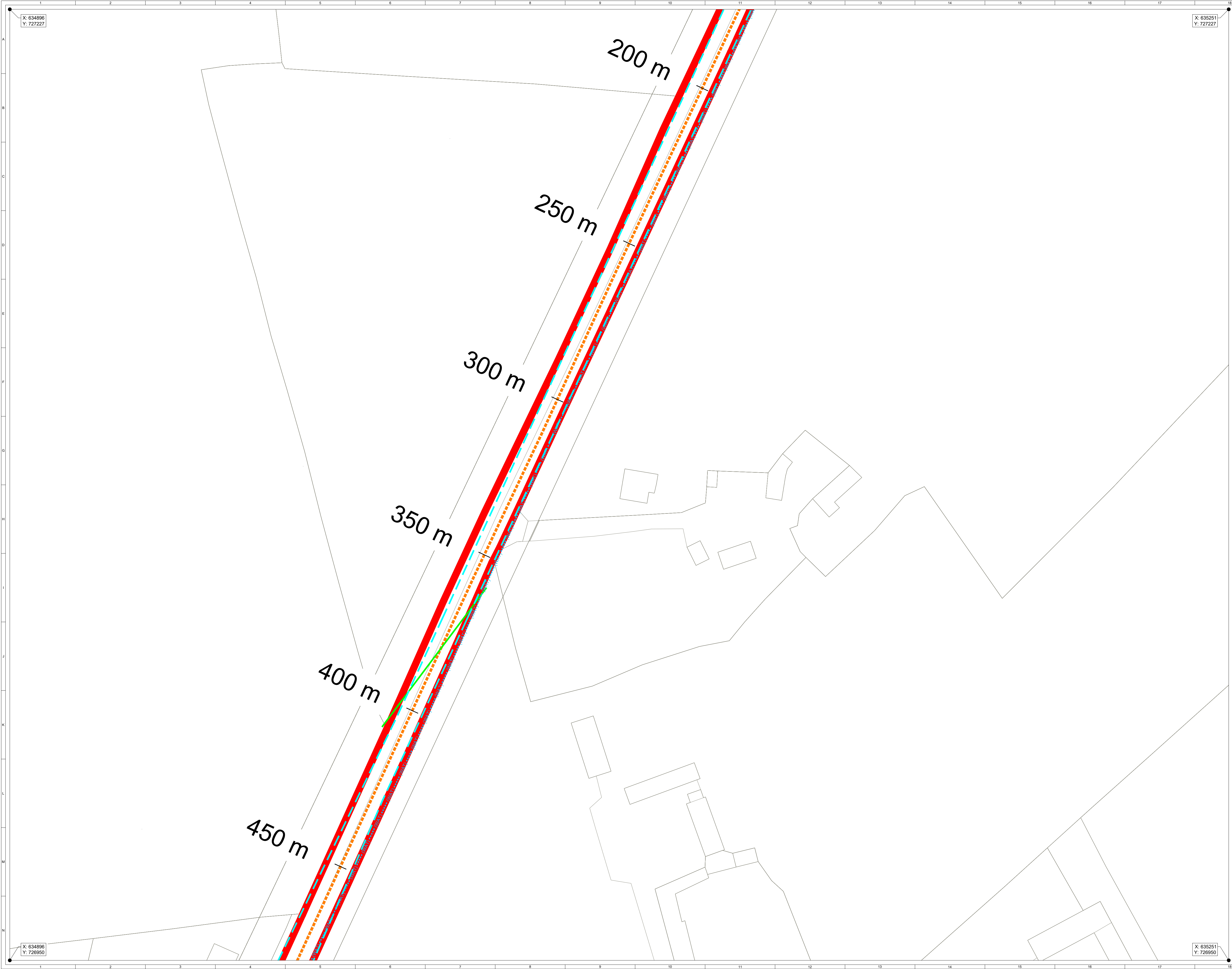
04386-RES-LAY-DR-PT-101

REV

8

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KEY:

PLANNING APPLICATION BOUNDARY  
(OUTSIDE EDGE OF LINE DENOTES BOUNDARY)

SITE ENTRANCE

EXISTING TRACK TO BE UPGRADED TO  
ACHIEVE A MINIMUM WIDTH OF 3.0m

PROPOSED ACCESS TRACK/  
HARDSTAND

PROPOSED TEMPORARY ACCESS  
TRACK

INDICATIVE 110kV UGC ROUTE

INDICATIVE 110kV HDD CROSSING

PROPOSED JOINT BAY

INDICATIVE 33kV UGC ROUTE

INDICATIVE 33kV HDD CROSSING

EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV &  
33 kV CABLES CROSSING

PROPOSED 33kV DITCH CABLE CROSSING

PROPOSED 110kV DITCH CABLE CROSSING

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PROPOSED GATE

PROPOSED CCTV

PROPOSED TEMPORARY  
CONSTRUCTION COMPOUND

PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN

SITE ENTRANCE VISIBILITY SPLAY

RECORDED NATIONAL MONUMENTS

PROPOSED NATURAL HERITAGE AREA

EXISTING UTILITIES

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ESB MV OVERHEAD LINE

ESB HV OVERHEAD LINE

TELECOM OVERHEAD LINE

EIRE NETWORK OVERHEAD LINE

EIRE NETWORK UNDERGROUND LINE

ESB LV UNDERGROUND LINE

ESB HV UNDERGROUND LINE

IRISH WATER MAINS

LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

Map series:

• 1:5,000: 3372

• 1:2,500: 3372 (A, B, C, D),  
3373 (A, C), 3435 (A, B),  
3436 (A)

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SHEET 3 OF 24

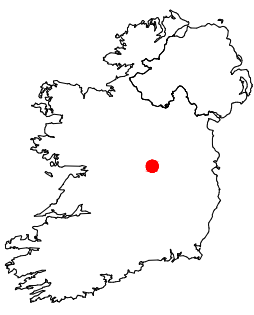
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ISSUE/	DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE	PERMITTING				SCALE @ A1
LAYOUT DWG	N/A				T-LAYOUT NO.
					N/A
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
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  - INDICATIVE 33kV HDD CROSSING
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  - PROPOSED 33kV DITCH CABLE CROSSING
  - PROPOSED 110kV DITCH CABLE CROSSING
  - PROPOSED PERIMETER FENCE
  - PROPOSED GATE
  - PROPOSED CCTV
  - PROPOSED TEMPORARY CONSTRUCTION COMPOUND
  - PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
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- EXISTING UTILITIES**
- ESB LV OVERHEAD LINE
  - ESB MV OVERHEAD LINE
  - ESB HV OVERHEAD LINE
  - TELECOM OVERHEAD LINE
  - EIRE NETWORK OVERHEAD LINE
  - EIRE NETWORK UNDERGROUND LINE
  - ESB LV UNDERGROUND LINE
  - ESB HV UNDERGROUND LINE
  - IRISH WATER MAINS
  - LOW PRESSURE GAS NETWORK

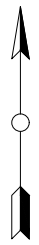



SITE LOCATION - NOT TO SCALE

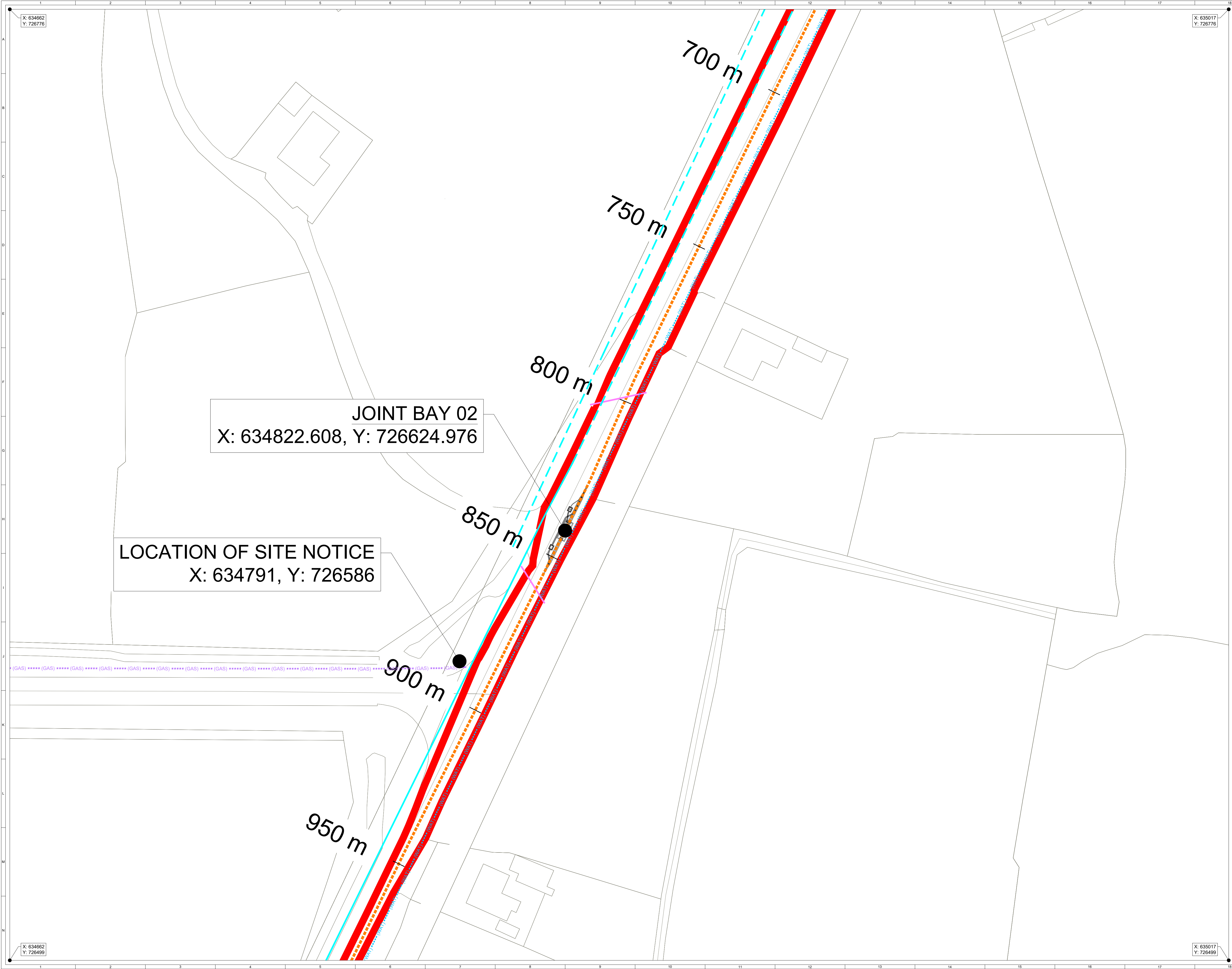
- Map series:**
- 1:5,000: 3372
  - 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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SHEET 4 OF 24



8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)	
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ISSUE/ DRAWN		CHKD	APPD	DATE	REVISION NOTES	
PURPOSE			SCALE @ A1			
PERMITTING			1:500			
LAYOUT DWG		N/A		T-LAYOUT NO.		N/A
COORDINATES						
IRENET95 ITM						
PROJECT TITLE						
COLEHILL						
110KV SUBSTATION						
DRAWING TITLE						
FIGURE 103						
110KV SUBSTATION						
SITE LAYOUT						
DRAWING NUMBER						REV
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- PROPOSED 33kV DITCH CABLE CROSSING
- PROPOSED 110kV DITCH CABLE CROSSING
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- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
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**EXISTING UTILITIES**

- ESB LV OVERHEAD LINE
- ESB MV OVERHEAD LINE
- ESB HV OVERHEAD LINE
- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

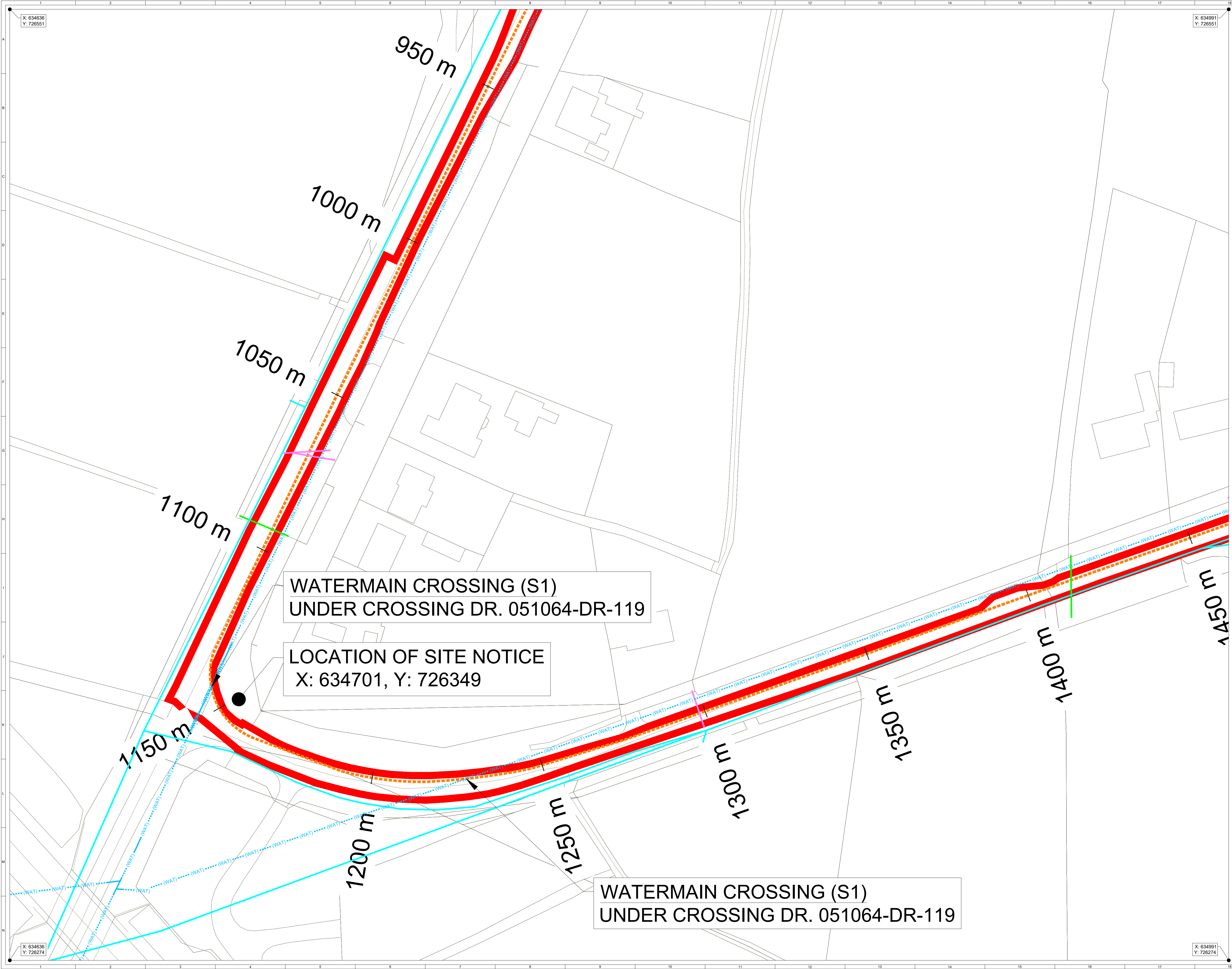
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SHEET 5 OF 24

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)		
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5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update		
ISSUE/ DRAWN/ CHKD/ APPD/ DATE				REVISION NOTES			
PURPOSE				SCALE @ A1			
PERMITTING				1:500			
LAYOUT DWG				T-LAYOUT NO.			
N/A				N/A			
COORDINATES							
IRENET95 ITM							
PROJECT TITLE							
COLEHILL 110KV SUBSTATION							
DRAWING TITLE							
FIGURE 103 110KV SUBSTATION SITE LAYOUT							
DRAWING NUMBER					REV		
04386-RES-LAY-DR-PT-101					8		
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- INDICATIVE 33kV UGC ROUTE
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- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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SHEET 6 OF 24

IRENET95 ITM

**COLEHILL  
110KV SUBSTATION**

**FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT**

**04386-RES-LAY-DR-PT-101**

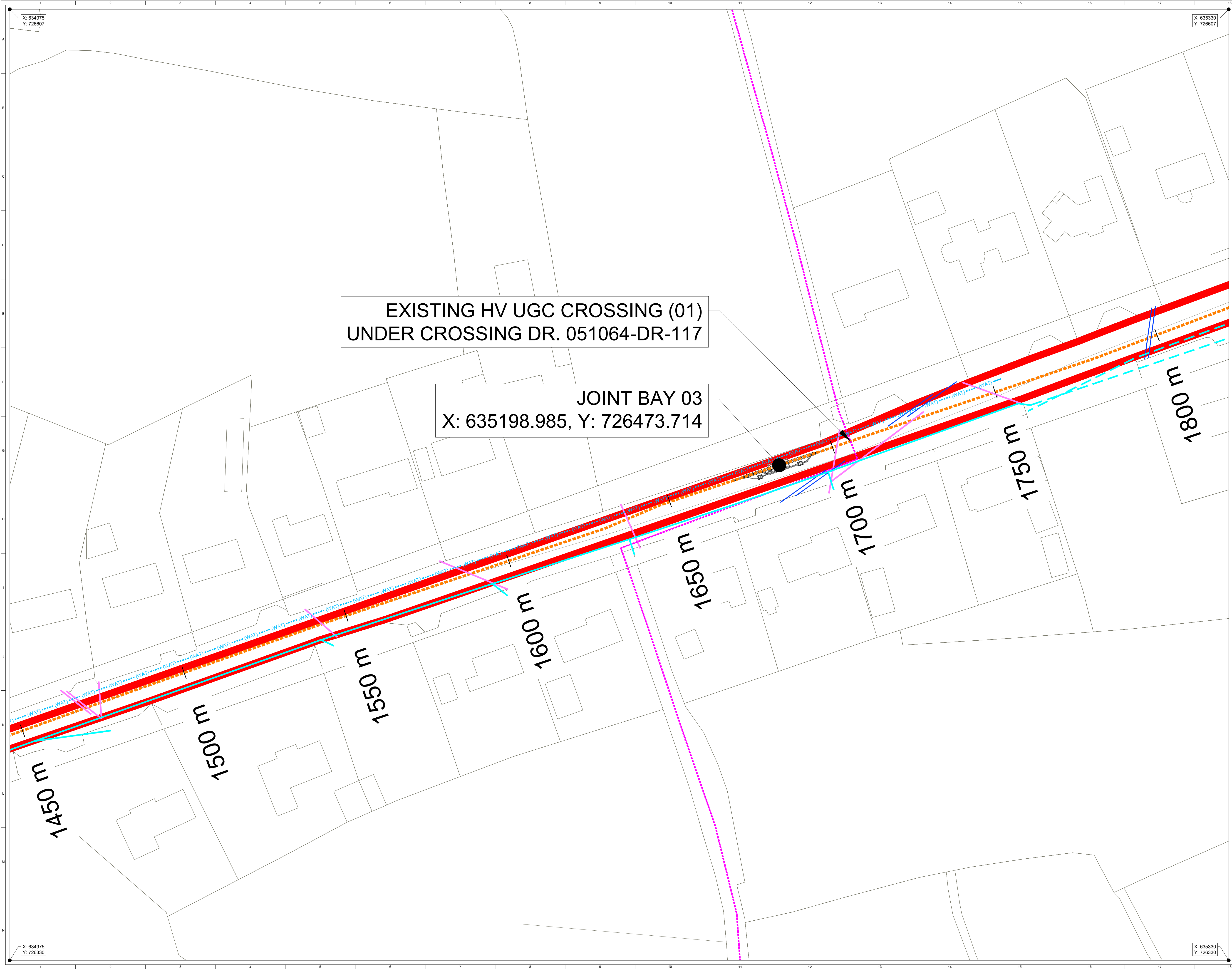
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HERTS WD4 8LR, UK  
TEL: +44 (0) 1923 295200  
WWW.RES-GROUP.COM





EXISTING HV UGC CROSSING (01)  
UNDER CROSSING DR. 051064-DR-117

JOINT BAY 03  
X: 635198.985, Y: 726473.714

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**SITE LOCATION - NOT TO SCALE**


**Map series:**

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- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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**SHEET 7 OF 24**

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
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5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update
ISSUE/ DRAWN/ CHKD/ APPD/ DATE				REVISION NOTES	
PURPOSE				SCALE @ A1	
PERMITTING				1:500	
LAYOUT DWG				T-LAYOUT NO.	
N/A				N/A	
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8
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SITE LOCATION - NOT TO SCALE

**Map series:**

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SHEET 8 OF 24

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ISSUE	DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE					SCALE @ A1
PERMITTING					1:500
LAYOUT DWG	N/A				T-LAYOUT NO.
					N/A

COORDINATES

IRENET95 ITM

PROJECT TITLE

COLEHILL  
110KV SUBSTATION

DRAWING TITLE

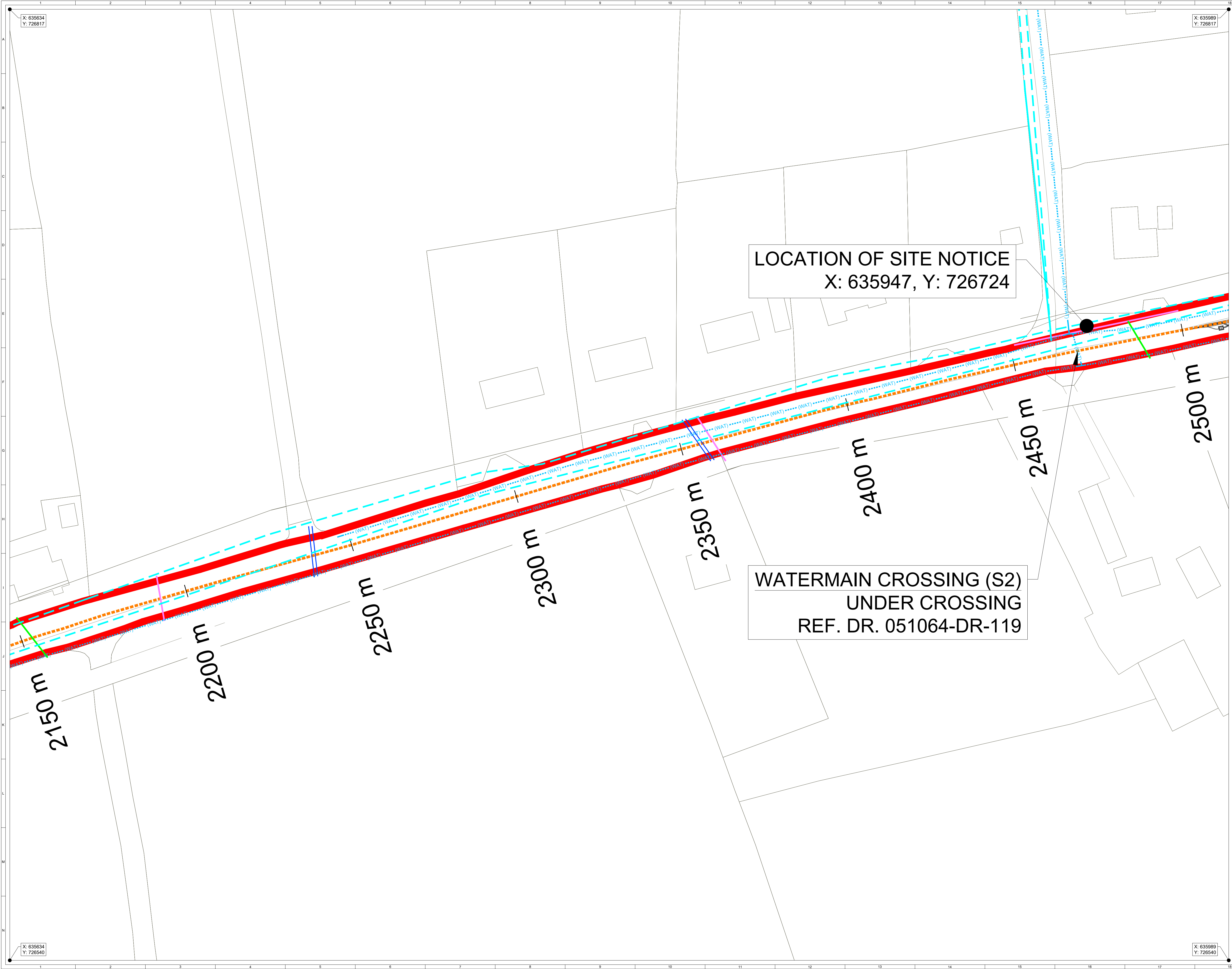
FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT

DRAWING NUMBER	04386-RES-LAY-DR-PT-101	REV	8
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KINGS LANGLEY,  
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**KEY:**

- PLANNING APPLICATION BOUNDARY (OUTSIDE EDGE OF LINE DENOTES BOUNDARY)
- SITE ENTRANCE
- EXISTING TRACK TO BE UPGRADED TO ACHIEVE A MINIMUM WIDTH OF 3.0m
- PROPOSED ACCESS TRACK/HARDSTAND
- PROPOSED TEMPORARY ACCESS TRACK
- INDICATIVE 110kV UGC ROUTE
- INDICATIVE 110kV HDD CROSSING
- PROPOSED JOINT BAY
- INDICATIVE 33kV UGC ROUTE
- INDICATIVE 33kV HDD CROSSING
- EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV & 33 kV CABLES CROSSING
- PROPOSED 33kV DITCH CABLE CROSSING
- PROPOSED 110kV DITCH CABLE CROSSING
- PROPOSED PERIMETER FENCE
- PROPOSED GATE
- PROPOSED CCTV
- PROPOSED TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
- SITE ENTRANCE VISIBILITY SPLAY
- RECORDED NATIONAL HERITAGE MONUMENTS
- PROPOSED NATURAL HERITAGE AREA

**EXISTING UTILITIES**

- ESB LV OVERHEAD LINE
- ESB MV OVERHEAD LINE
- ESB HV OVERHEAD LINE
- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

**SITE LOCATION - NOT TO SCALE**

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

**Produced by:** Francesco Ghergo

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**SHEET 9 OF 24**

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update

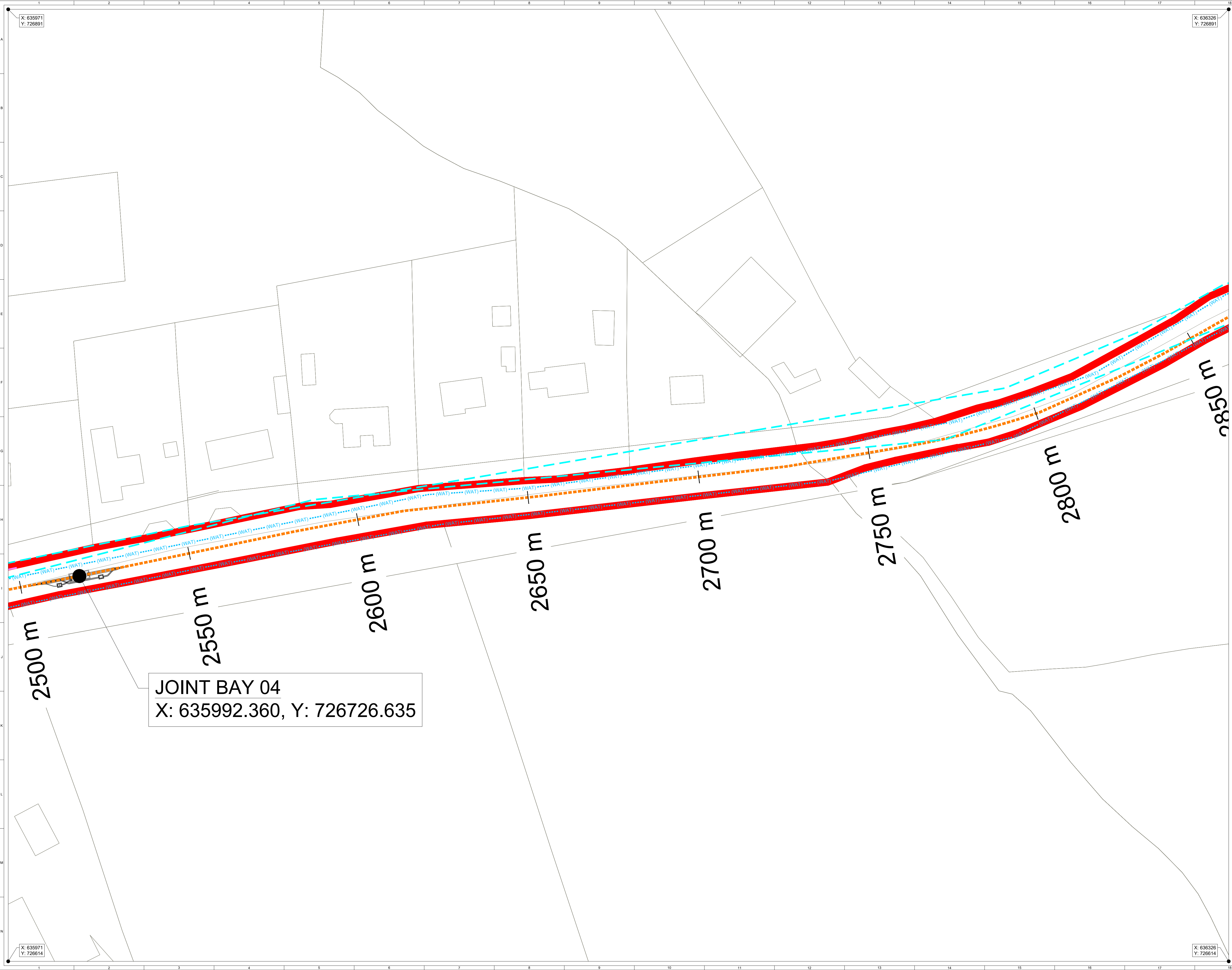
ISSUE/	DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE	PERMITTING				SCALE @ A1
LAYOUT DWG	N/A				T-LAYOUT NO.
COORDINATES				IRENET95 ITM	
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8

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- PROPOSED TEMPORARY ACCESS  
TRACK
- INDICATIVE 110KV UGC ROUTE
- INDICATIVE 110KV HDD CROSSING
- PROPOSED JOINT BAY
- INDICATIVE 33KV UGC ROUTE
- INDICATIVE 33KV HDD CROSSING
- EXISTING DITCH CROSSING TO BE UPGRADED AND 110KV &  
33 kV CABLES CROSSING
- PROPOSED 33KV DITCH CABLE CROSSING
- PROPOSED 110KV DITCH CABLE CROSSING
- PROPOSED PERIMETER FENCE
- PROPOSED GATE
- PROPOSED CCTV
- PROPOSED TEMPORARY  
CONSTRUCTION COMPOUND
- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
- SITE ENTRANCE VISIBILITY SPLAY
- RECORDED NATIONAL MONUMENTS
- PROPOSED NATURAL HERITAGE AREA

**EXISTING UTILITIES**

- ESB LV OVERHEAD LINE
- ESB MV OVERHEAD LINE
- ESB HV OVERHEAD LINE
- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D),  
3373 (A, C), 3435 (A, B),  
3436 (A)

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SHEET 10 OF 24

IRENET95 ITM

PROJECT TITLE  
**COLEHILL  
110KV SUBSTATION**

DRAWING TITLE  
**FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT**

DRAWING NUMBER  
**04386-RES-LAY-DR-PT-101**

REV  
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- ESB HV UNDERGROUND LINE
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- LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

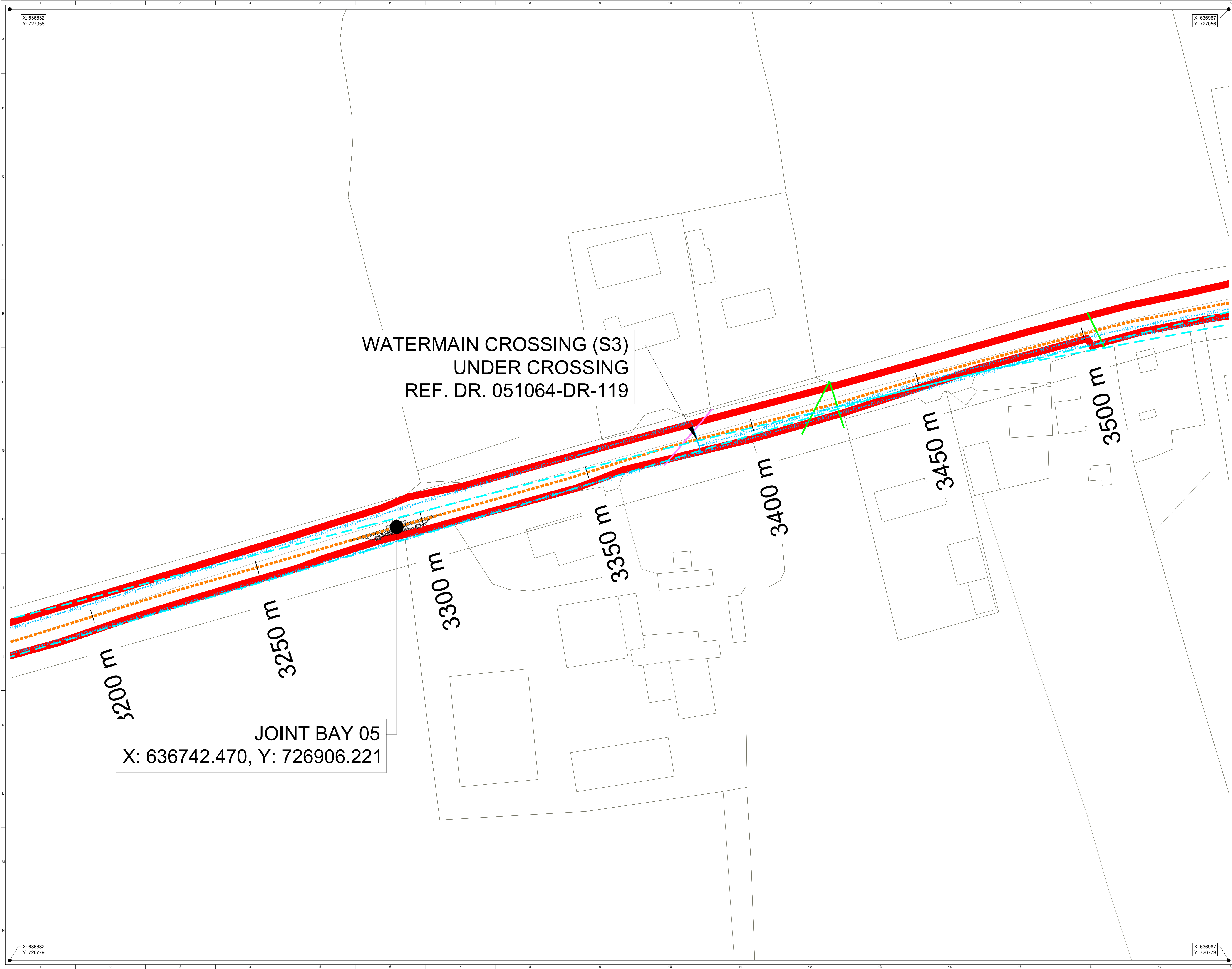
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SHEET 11 OF 24

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
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6	FG	JM	RB	2025-07-04	Substation layout updated
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ISSUE/	DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE	PERMITTING				SCALE @ A1
LAYOUT DWG	N/A				T-LAYOUT NO.
					N/A
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8
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- PROPOSED 110kV DITCH CABLE CROSSING
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- PROPOSED GATE
- PROPOSED CCTV
- PROPOSED TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
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- PROPOSED NATURAL HERITAGE AREA

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**SITE LOCATION - NOT TO SCALE**

**Map series:**

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- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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**SHEET 12 OF 23**

**ISSUE/** **DRAWN** **CHKD** **APPD** **DATE** **REVISION NOTES**

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update

**PURPOSE** **PERMITTING** **SCALE @ A1** **1:500**

**LAYOUT DWG** **N/A** **T-LAYOUT NO.** **N/A**

**COORDINATES** **IRENET95 ITM**

**PROJECT TITLE** **COLEHILL 110KV SUBSTATION**

**DRAWING TITLE** **FIGURE 103 110KV SUBSTATION SITE LAYOUT**

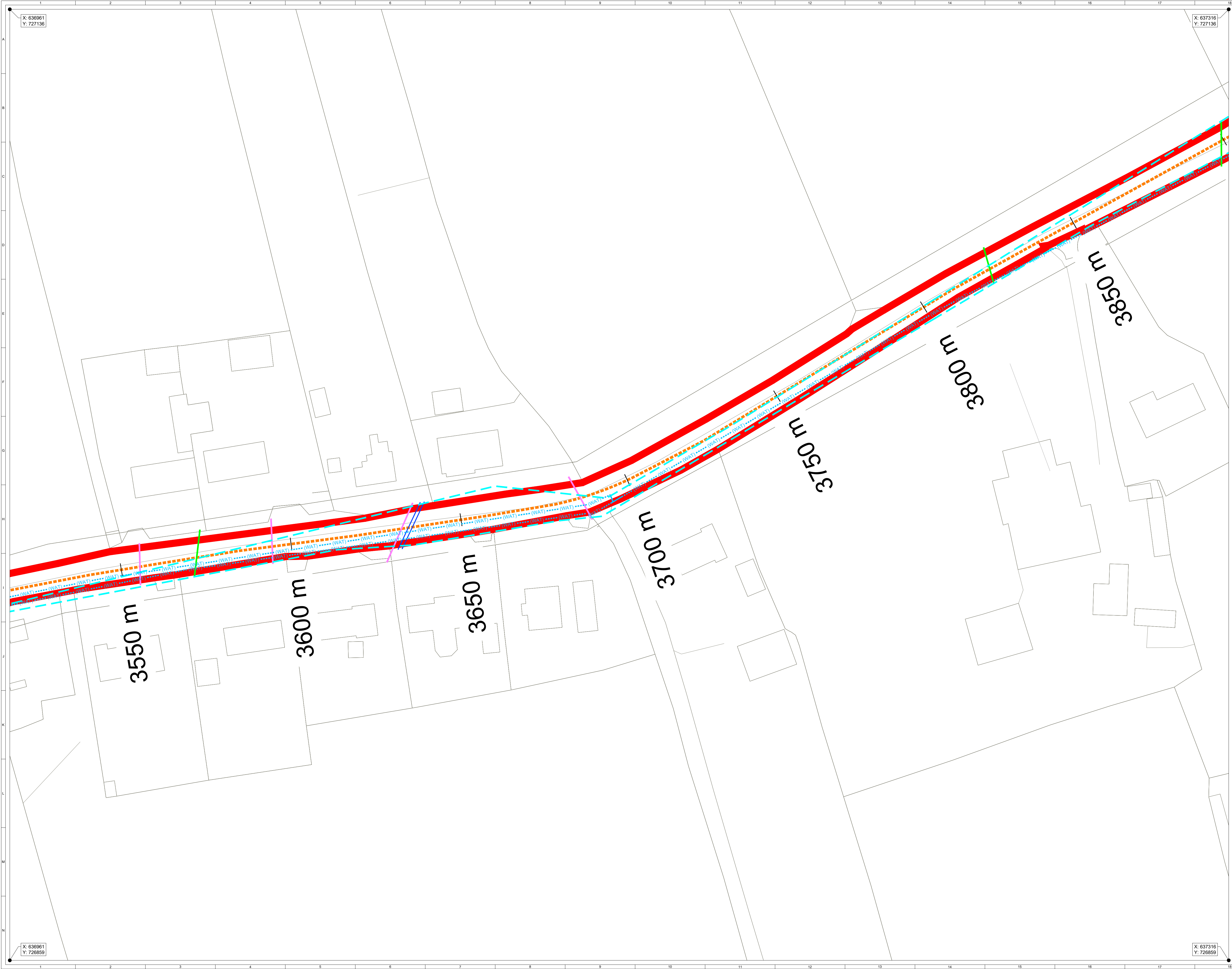
**DRAWING NUMBER** **04386-RES-LAY-DR-PT-101** **REV** **8**

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- ESB HV OVERHEAD LINE
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**SITE LOCATION - NOT TO SCALE**

**Map series:**

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- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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**SHEET 13 OF 23**

**PERMITTING**

ISSUE	DRAWN	CHKD	APPD	DATE	REVISION NOTES
8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
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6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update

**PURPOSE**

PERMITTING	SCALE @ A1
N/A	1:500

**LAYOUT DWG**

T-LAYOUT NO.
N/A

**COORDINATES**

IRENET95 ITM

**PROJECT TITLE**

COLEHILL  
110KV SUBSTATION

**DRAWING TITLE**

FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT

**DRAWING NUMBER**

04386-RES-LAY-DR-PT-101

**REV**

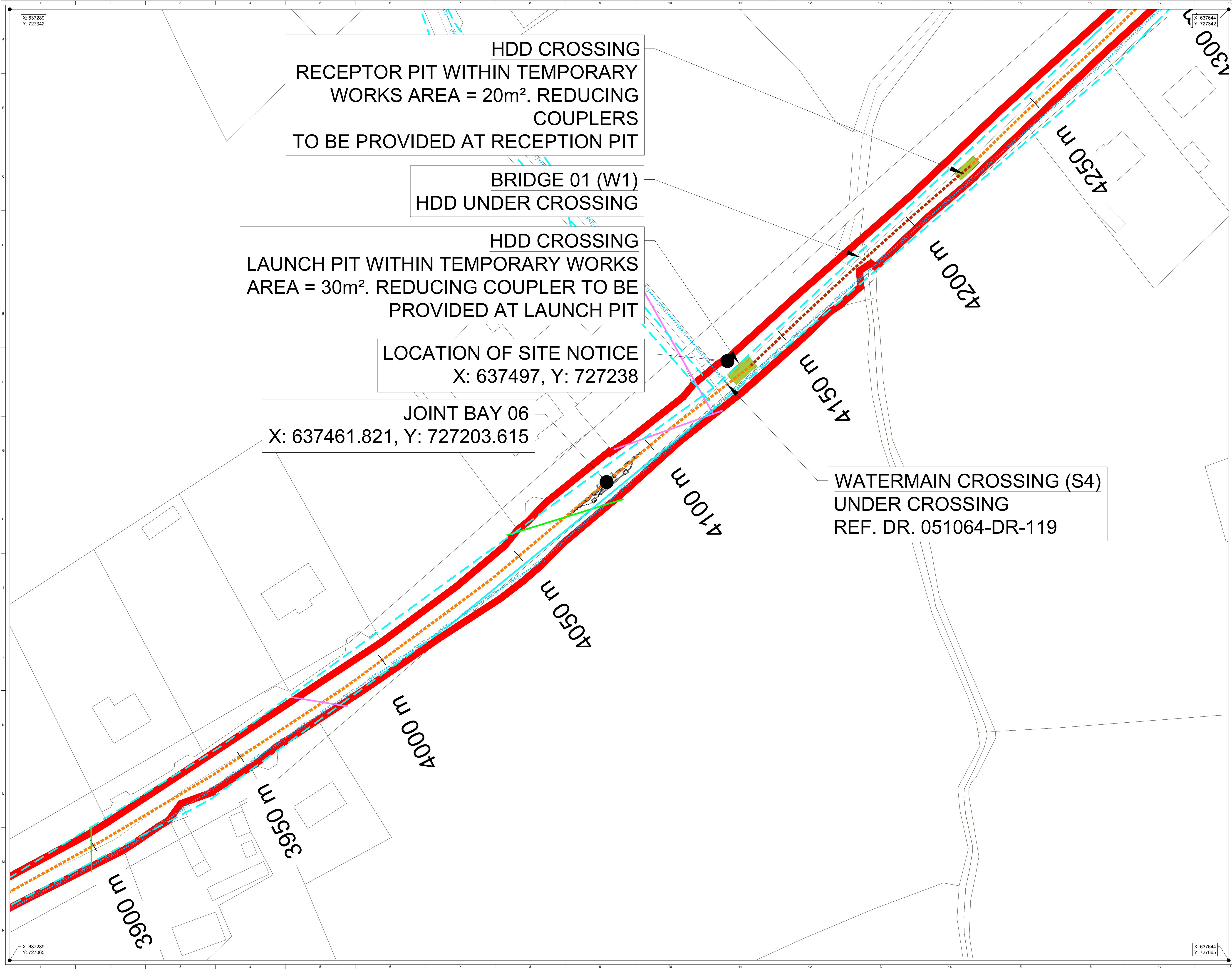
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HDD CROSSING  
RECEPTOR PIT WITHIN TEMPORARY  
WORKS AREA = 20m<sup>2</sup>. REDUCING  
COUPLERS  
TO BE PROVIDED AT RECEPTION PIT

BRIDGE 01 (W1)  
HDD UNDER CROSSING

HDD CROSSING  
LAUNCH PIT WITHIN TEMPORARY WORKS  
AREA = 30m<sup>2</sup>. REDUCING COUPLER TO BE  
PROVIDED AT LAUNCH PIT

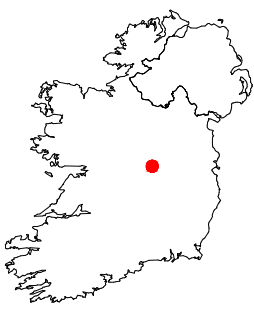
LOCATION OF SITE NOTICE  
X: 637497, Y: 727238

JOINT BAY 06  
X: 637461.821, Y: 727203.615

WATERMAIN CROSSING (S4)  
UNDER CROSSING  
REF. DR. 051064-DR-119

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  - EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV & 33 kV CABLES CROSSING
  - PROPOSED 33kV DITCH CABLE CROSSING
  - PROPOSED 110kV DITCH CABLE CROSSING
  - PROPOSED PERIMETER FENCE
  - PROPOSED GATE
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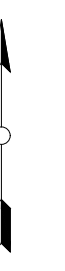



SITE LOCATION - NOT TO SCALE

- Map series:
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SHEET 14 OF 23



8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
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ISSUE/ DRAWN/ CHKD/ APPD				DATE	REVISION NOTES
PURPOSE				SCALE @ A1	
PERMITTING				1:500	
LAYOUT DWG				T-LAYOUT NO.	
N/A				N/A	
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8
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**SHEET 15 OF 23**

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
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ISSUE/	DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE	PERMITTING				SCALE @ A1
LAYOUT DWG	N/A				T-LAYOUT NO.
COORDINATES					

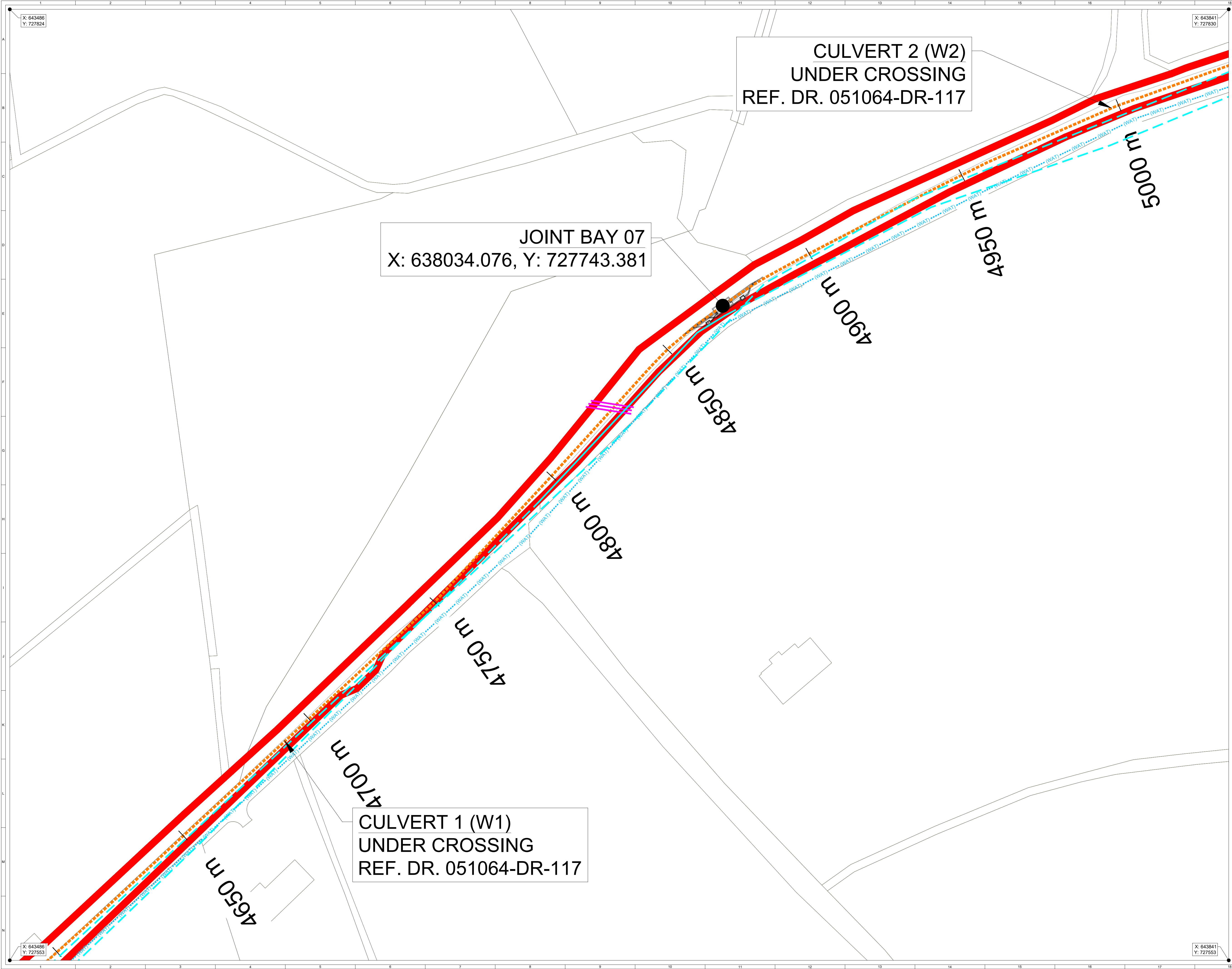
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04386-RES-LAY-DR-PT-101	
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- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

**SITE LOCATION - NOT TO SCALE**

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

**Produced by:** Francesco Ghergo

**Renewable Energy Systems Ltd**  
Registered Office: Beaufort Court,  
Egg Farm Lane, Kings Langley,  
Hertfordshire WD4 8LR

SHEET 16 OF 23

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update

ISSUE/	DRAWN/	CHKD/	APPD/	DATE	REVISION NOTES
PURPOSE	PERMITTING				SCALE @ A1
LAYOUT DWG	N/A				T-LAYOUT NO.
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER				REV	
04386-RES-LAY-DR-PT-101				8	

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HERTS WD4 8LR, UK  
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WWW.RES-GROUP.COM





ORDNANCE SURVEY IRELAND LICENCE NO. EN 0003820  
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KEY:

PLANNING APPLICATION BOUNDARY  
(OUTSIDE EDGE OF LINE DENOTES BOUNDARY)

SITE ENTRANCE

EXISTING TRACK TO BE UPGRADED TO  
ACHIEVE A MINIMUM WIDTH OF 3.0m

PROPOSED ACCESS TRACK/  
HARDSTAND

PROPOSED TEMPORARY ACCESS  
TRACK

INDICATIVE 110kV UGC ROUTE

INDICATIVE 110kV HDD CROSSING

PROPOSED JOINT BAY

INDICATIVE 33kV UGC ROUTE

INDICATIVE 33kV HDD CROSSING

EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV &  
33 kV CABLES CROSSING

PROPOSED 33kV DITCH CABLE CROSSING

PROPOSED 110kV DITCH CABLE CROSSING

PROPOSED PERIMETER FENCE

PROPOSED GATE

PROPOSED CCTV

PROPOSED TEMPORARY  
CONSTRUCTION COMPOUND

PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN

SITE ENTRANCE VISIBILITY SPLAY

RECORDED NATIONAL MONUMENTS

PROPOSED NATURAL HERITAGE AREA

EXISTING UTILITIES

ESB LV OVERHEAD LINE

ESB MV OVERHEAD LINE

ESB HV OVERHEAD LINE

TELECOM OVERHEAD LINE

EIRE NETWORK OVERHEAD LINE

EIRE NETWORK UNDERGROUND LINE

ESB LV UNDERGROUND LINE

ESB HV UNDERGROUND LINE

IRISH WATER MAINS

LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

Map series:

1:5,000: 3372

1:2,500: 3372 (A, B, C, D),  
3373 (A, C), 3435 (A, B),  
3436 (A)

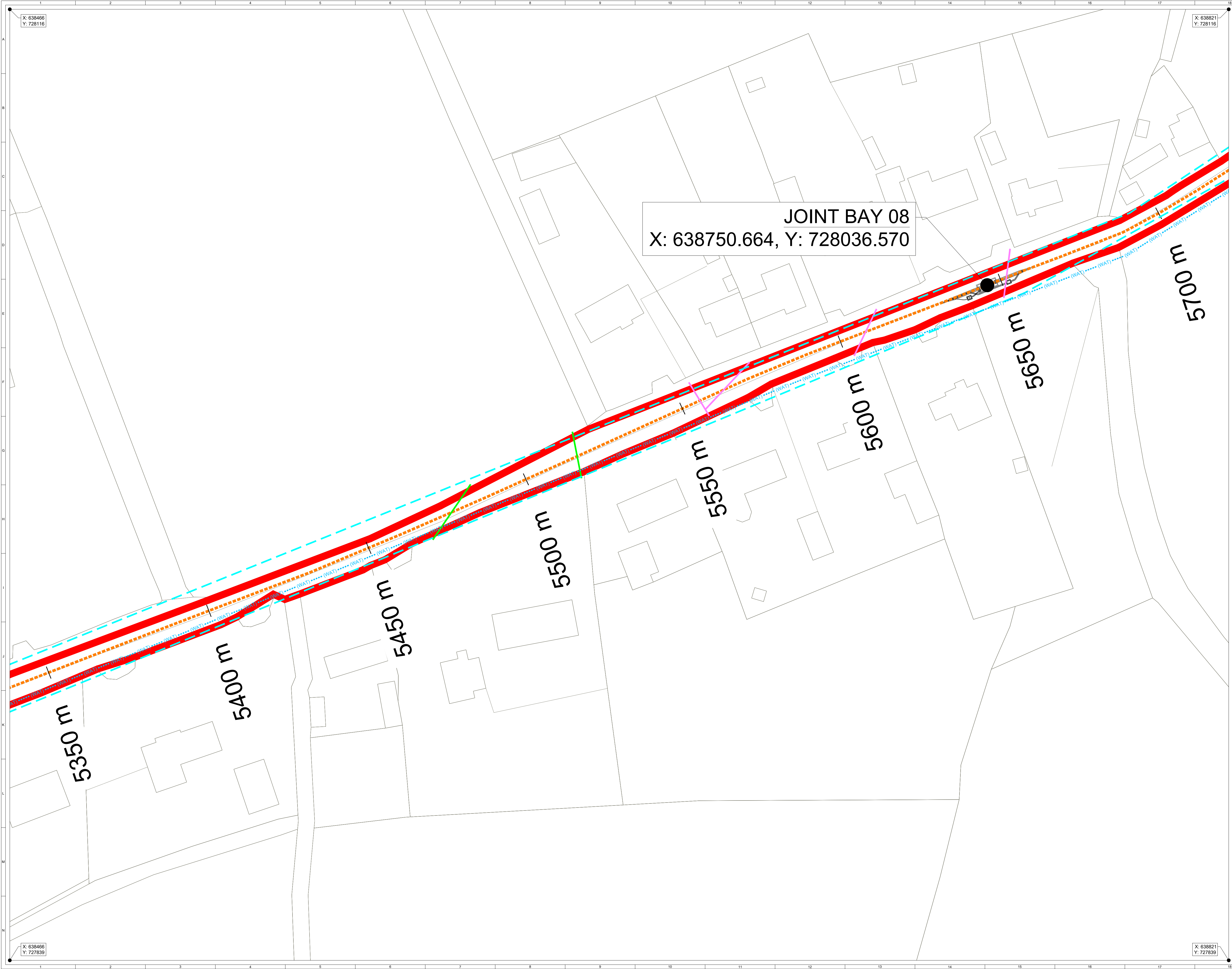
Produced by: Francesco Ghergo

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Hertfordshire WD4 8LR

SHEET 17 OF 23

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)		
7	FG	JM	RB	2025-11-27	Client compound update		
6	FG	JM	RB	2025-07-04	Substation layout updated		
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ISSUE/ DRAWN		CHKD	APPD	DATE	REVISION NOTES		
PURPOSE		SCALE @ A1		1:500			
PERMITTING		T-LAYOUT NO.		N/A			
LAYOUT DWG		N/A		N/A			
COORDINATES		IRENET95 ITM					
PROJECT TITLE		COLEHILL 110KV SUBSTATION					
DRAWING TITLE		FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER		04386-RES-LAY-DR-PT-101		REV	8		
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PLANNING APPLICATION BOUNDARY  
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INDICATIVE 110kV HDD CROSSING

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INDICATIVE 33kV HDD CROSSING

EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV &  
33 kV CABLES CROSSING

PROPOSED 33kV DITCH CABLE CROSSING

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PROPOSED PERIMETER FENCE

PROPOSED GATE

PROPOSED CCTV

PROPOSED TEMPORARY  
CONSTRUCTION COMPOUND

PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN

SITE ENTRANCE VISIBILITY SPLAY

RECORDED NATIONAL MONUMENTS

PROPOSED NATURAL HERITAGE AREA

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ESB MV OVERHEAD LINE

ESB HV OVERHEAD LINE

TELECOM OVERHEAD LINE

EIRE NETWORK OVERHEAD LINE

EIRE NETWORK UNDERGROUND LINE

ESB LV UNDERGROUND LINE

ESB HV UNDERGROUND LINE

IRISH WATER MAINS

LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

Map series:

• 1:5,000: 3372

• 1:2,500: 3372 (A, B, C, D),  
3373 (A, C), 3435 (A, B),  
3436 (A)

Produced by: Francesco Ghergo

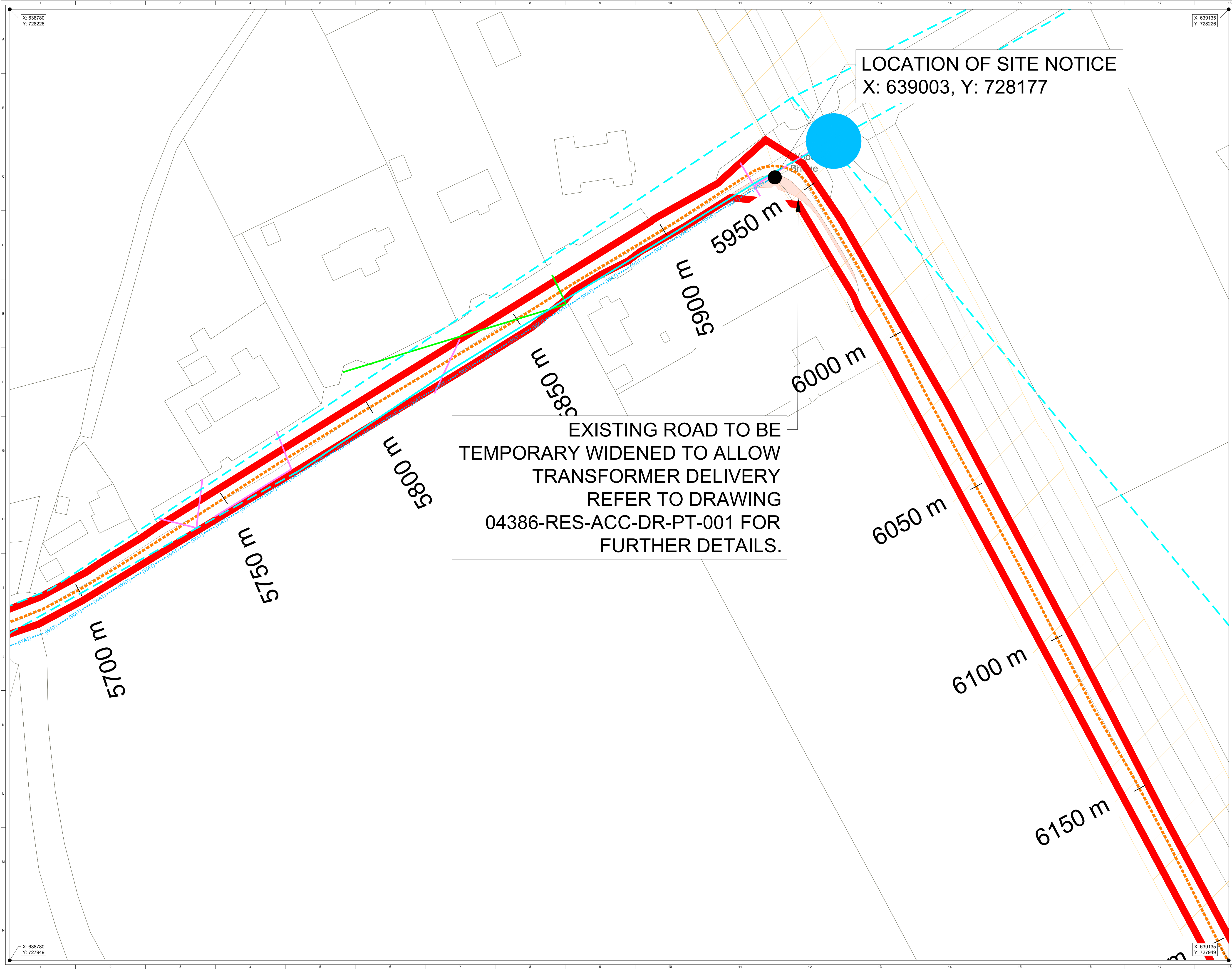
Renewable Energy Systems Ltd

Registered Office: Beaufort Court,  
Egg Farm Lane, Kings Langley,  
Hertfordshire WD4 8LR

SHEET 18 OF 23

8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)	
7	FG	JM	RB	2025-11-27	Client compound update	
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5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update	
ISSUE/		DRAWN	CHKD	APPD	DATE	REVISION NOTES
PURPOSE		PERMITTING			SCALE @ A1	1:500
LAYOUT DWG		N/A			T-LAYOUT NO.	N/A
COORDINATES		IRENET95 ITM				
PROJECT TITLE		COLEHILL 110KV SUBSTATION				
DRAWING TITLE		FIGURE 103 110KV SUBSTATION SITE LAYOUT				
DRAWING NUMBER		04386-RES-LAY-DR-PT-101				REV 8
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**KEY:**

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- PROPOSED ACCESS TRACK/HARDSTAND
- PROPOSED TEMPORARY ACCESS TRACK
- INDICATIVE 110kV UGC ROUTE
- INDICATIVE 110kV HDD CROSSING
- PROPOSED JOINT BAY
- INDICATIVE 33kV UGC ROUTE
- INDICATIVE 33kV HDD CROSSING
- EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV & 33 kV CABLES CROSSING
- PROPOSED 33kV DITCH CABLE CROSSING
- PROPOSED 110kV DITCH CABLE CROSSING
- PROPOSED PERIMETER FENCE
- PROPOSED GATE
- PROPOSED CCTV
- PROPOSED TEMPORARY CONSTRUCTION COMPOUND
- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
- SITE ENTRANCE VISIBILITY SPLAY
- RECORDED NATIONAL MONUMENTS
- PROPOSED NATURAL HERITAGE AREA

**EXISTING UTILITIES**

- ESB LV OVERHEAD LINE
- ESB MV OVERHEAD LINE
- ESB HV OVERHEAD LINE
- TELECOM OVERHEAD LINE
- EIRE NETWORK OVERHEAD LINE
- EIRE NETWORK UNDERGROUND LINE
- ESB LV UNDERGROUND LINE
- ESB HV UNDERGROUND LINE
- IRISH WATER MAINS
- LOW PRESSURE GAS NETWORK

**SITE LOCATION - NOT TO SCALE**

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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**SHEET 19 OF 23**

**REVISIONS**

ISSUE	DRAWN	CHKD	APPD	DATE	REVISION NOTES
8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update

**PURPOSE** PERMITTING **SCALE @ A1** 1:500

**LAYOUT DWG** N/A **T-LAYOUT NO.** N/A

**COORDINATES** IREN95 ITM

**PROJECT TITLE** COLEHILL 110KV SUBSTATION

**DRAWING TITLE** FIGURE 103 110KV SUBSTATION SITE LAYOUT

**DRAWING NUMBER** 04386-RES-LAY-DR-PT-101 **REV** 8

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EXISTING ROAD TO BE REALIGNED  
REFER TO DRAWING 04386-RES-ACC-DR-PT-002  
FOR FURTHER DETAILS.

JOINT BAY 09  
X: 639268.184, Y: 727818.502

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- PROPOSED TEMPORARY ACCESS  
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- INDICATIVE 110kV UGC ROUTE
- INDICATIVE 110kV HDD CROSSING
- PROPOSED JOINT BAY
- INDICATIVE 33kV UGC ROUTE
- INDICATIVE 33kV HDD CROSSING
- EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV &  
33 kV CABLES CROSSING
- PROPOSED 33kV DITCH CABLE CROSSING
- PROPOSED 110kV DITCH CABLE CROSSING
- PROPOSED PERIMETER FENCE
- PROPOSED GATE
- PROPOSED CCTV
- PROPOSED TEMPORARY  
CONSTRUCTION COMPOUND
- PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
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- PROPOSED NATURAL HERITAGE AREA

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- LOW PRESSURE GAS NETWORK

SITE LOCATION - NOT TO SCALE

**Map series:**

- 1:5,000: 3372
- 1:2,500: 3372 (A, B, C, D),  
3373 (A, C), 3435 (A, B),  
3436 (A)

**Produced by:** Francesco Ghergo

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Hertfordshire WD4 8LR

SHEET 20 OF 23

8

FG

JM

RB

2025-11-28

Minor amend (substations hatch)

7

FG

JM

RB

2025-11-27

Client compound update

6

FG

JM

RB

2025-07-04

Substation layout updated

5

FG

JM

RB

2024-11-11

Boundary, access track, EirGrid compound update

ISSUE

DRAWN

CHKD

APPD

DATE

REVISION NOTES

PURPOSE

PERMITTING

SCALE @ A1

1:500

LAYOUT DWG

N/A

T-LAYOUT NO.

N/A

COORDINATES

IRENET95 ITM

PROJECT TITLE

COLEHILL  
110KV SUBSTATION

DRAWING TITLE

FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT

DRAWING NUMBER

04386-RES-LAY-DR-PT-101

REV

8

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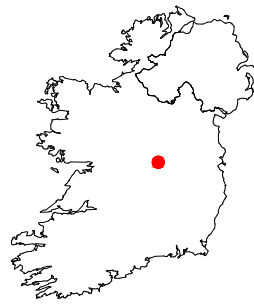


CULVERT 2 (W3)  
UNDER CROSSING  
REF. DR. 051064-DR-117

LOCATION OF SITE NOTICE  
X: 639593, Y: 727601

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  - PROPOSED JOINT BAY
  - INDICATIVE 33kV UGC ROUTE
  - INDICATIVE 33kV HDD CROSSING
  - EXISTING DITCH CROSSING TO BE UPGRADED AND 110kV & 33 kV CABLES CROSSING
  - PROPOSED 33kV DITCH CABLE CROSSING
  - PROPOSED 110kV DITCH CABLE CROSSING
  - PROPOSED PERIMETER FENCE
  - PROPOSED GATE
  - PROPOSED CCTV
  - PROPOSED TEMPORARY CONSTRUCTION COMPOUND
  - PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
  - SITE ENTRANCE VISIBILITY SPLAY
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- EXISTING UTILITIES
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  - ESB HV OVERHEAD LINE
  - TELECOM OVERHEAD LINE
  - EIRE NETWORK OVERHEAD LINE
  - EIRE NETWORK UNDERGROUND LINE
  - ESB LV UNDERGROUND LINE
  - ESB HV UNDERGROUND LINE
  - IRISH WATER MAINS
  - LOW PRESSURE GAS NETWORK




SITE LOCATION - NOT TO SCALE

- Map series:
- 1:5,000: 3372
  - 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

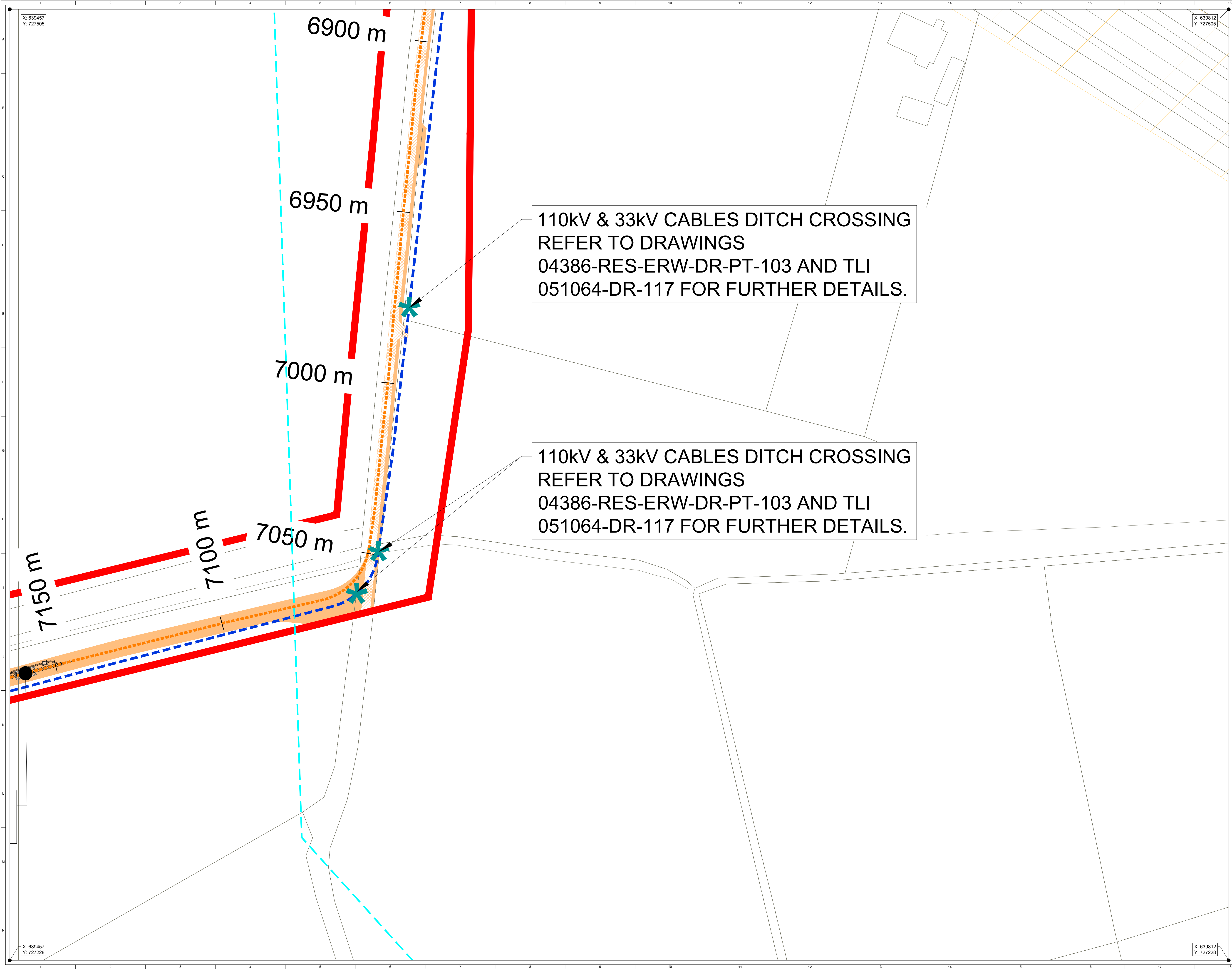
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**Renewable Energy Systems Ltd**  
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Hertfordshire WD4 8LR

SHEET 21 OF 23



8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
7	FG	JM	RB	2025-11-27	Client compound update
6	FG	JM	RB	2025-07-04	Substation layout updated
5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update
ISSUE/ DRAWN/ CHKD/ APPD/ DATE				REVISION NOTES	
PURPOSE				SCALE @ A1	
PERMITTING				1:500	
LAYOUT DWG				T-LAYOUT NO.	
N/A				N/A	
COORDINATES					
IRENET95 ITM					
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8
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110kV & 33kV CABLES DITCH CROSSING  
REFER TO DRAWINGS  
04386-RES-ERW-DR-PT-103 AND TLI  
051064-DR-117 FOR FURTHER DETAILS.

110kV & 33kV CABLES DITCH CROSSING  
REFER TO DRAWINGS  
04386-RES-ERW-DR-PT-103 AND TLI  
051064-DR-117 FOR FURTHER DETAILS.

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EIRE NETWORK OVERHEAD LINE

EIRE NETWORK UNDERGROUND LINE

ESB LV UNDERGROUND LINE

ESB HV UNDERGROUND LINE

IRISH WATER MAINS

LOW PRESSURE GAS NETWORK

Irish map with site location

SITE LOCATION - NOT TO SCALE

Map series:

1:5,000: 3372

1:2,500: 3372 (A, B, C, D),  
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8

FG

JM

RB

2025-11-28

Minor amend (substations hatch)

7

FG

JM

RB

2025-11-27

Client compound update

6

FG

JM

RB

2025-07-04

Substation layout updated

5

FG

JM

RB

2024-11-11

Boundary, access track, EirGrid compound update

ISSUE

DRAWN

CHKD

APPD

DATE

REVISION NOTES

PURPOSE

PERMITTING

SCALE @ A1

1:500

LAYOUT DWG

N/A

T-LAYOUT NO.

N/A

COORDINATES

IRENET95 ITM

PROJECT TITLE

COLEHILL  
110KV SUBSTATION

DRAWING TITLE

FIGURE 103  
110KV SUBSTATION  
SITE LAYOUT

DRAWING NUMBER

04386-RES-LAY-DR-PT-101

REV

8

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TEL: +44 (0) 1923 296200  
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PROPOSED COLEHILL  
110kV SUBSTATION

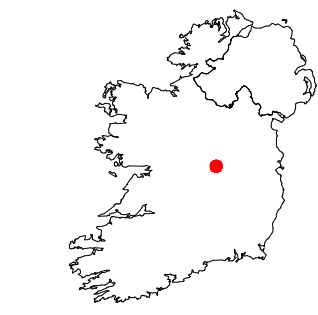
33kV CABLE DITCH CROSSING  
REFER TO DRAWING  
04386-RES-ERW-DR-PT-104  
FOR FURTHER DETAILS.

JOINT BAY 010  
X: 636461.091, Y: 727311.969

OPEN DRAIN / DITCH (01)  
CROSSING DETAIL  
REF. DR. 051064-DR-139

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  - PROPOSED SOAKAWAY PIT/INFILTRATION DRAIN
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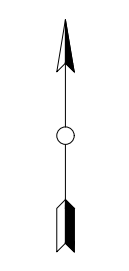



SITE LOCATION - NOT TO SCALE

- Map series:
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  - 1:2,500: 3372 (A, B, C, D), 3373 (A, C), 3435 (A, B), 3436 (A)

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SHEET 23 OF 23



8	FG	JM	RB	2025-11-28	Minor amend (substations hatch)
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5	FG	JM	RB	2024-11-11	Boundary, access track, EirGrid compound update
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PURPOSE		PERMITTING		SCALE @ A1	1:500
LAYOUT DWG		N/A		T-LAYOUT NO.	N/A
COORDINATES		IRENET95 ITM			
PROJECT TITLE					
COLEHILL 110KV SUBSTATION					
DRAWING TITLE					
FIGURE 103 110KV SUBSTATION SITE LAYOUT					
DRAWING NUMBER					REV
04386-RES-LAY-DR-PT-101					8
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